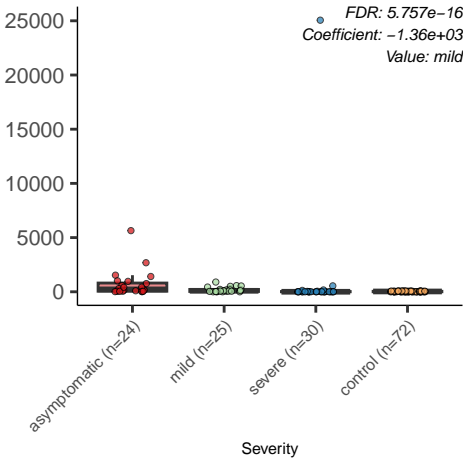
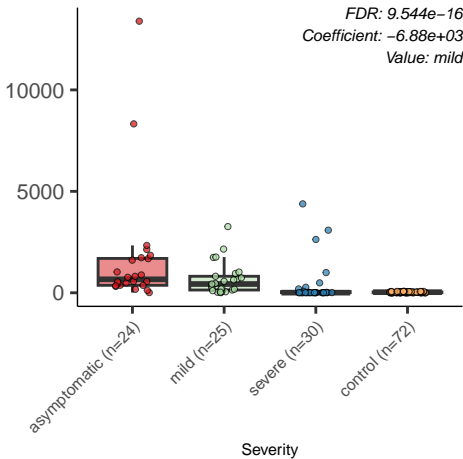
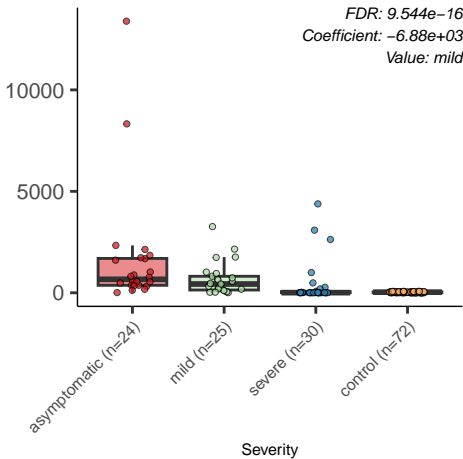


Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__S

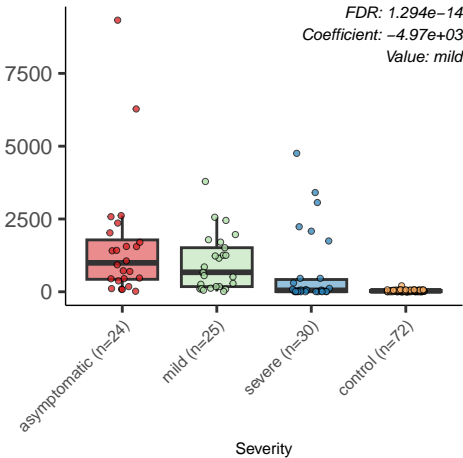


ia.p_Actinobacteria.c_Actinomycetia.o_Actinomycetales.f_Actin

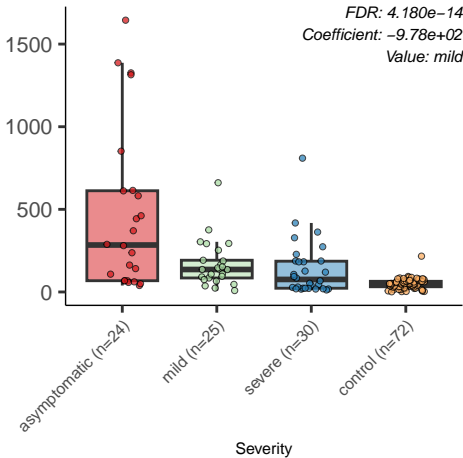




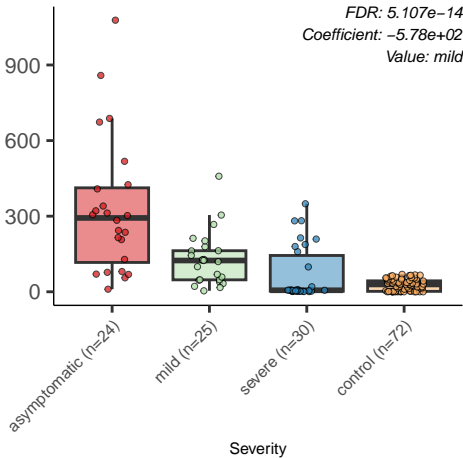
bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Oscillospira

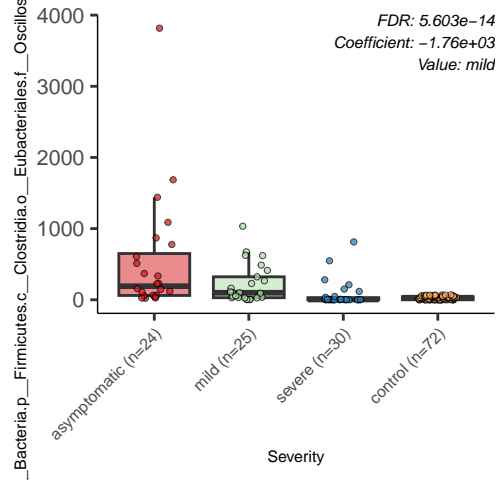


eria.p_Actinobacteria.c_Actinomycetia.o_Corynebacteriales.f_N

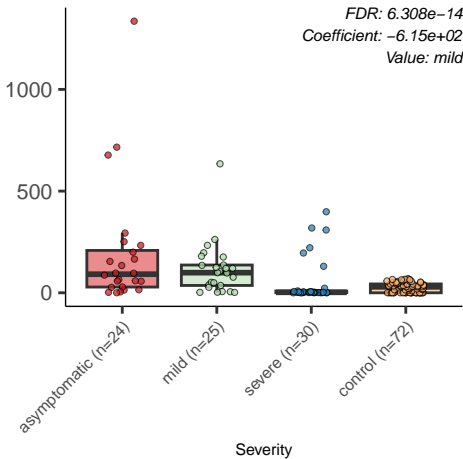


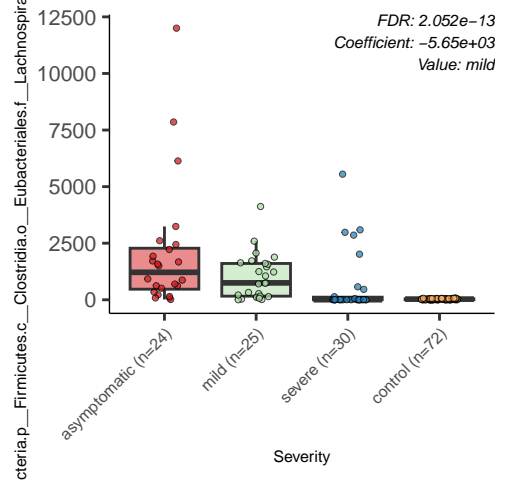
d_Bacteria.p_Firmicutes.c_Clostridia.o_Halanae



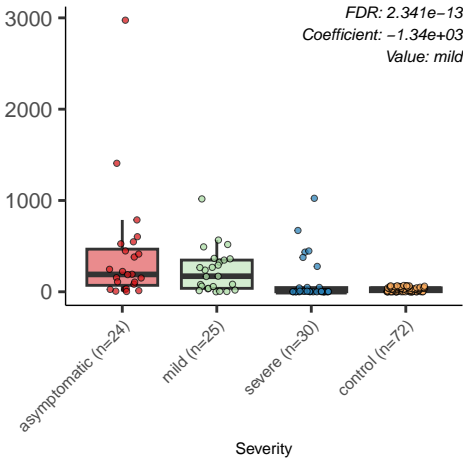


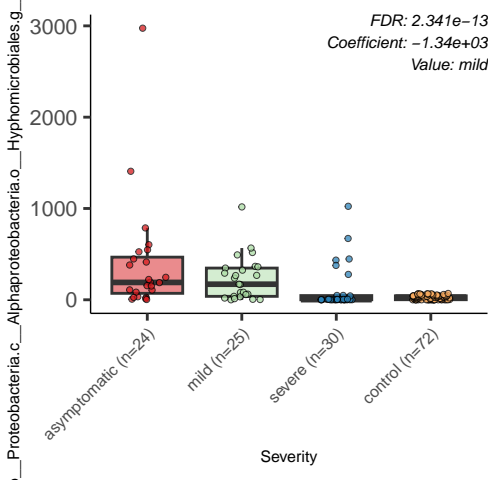
eria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnospiraceae



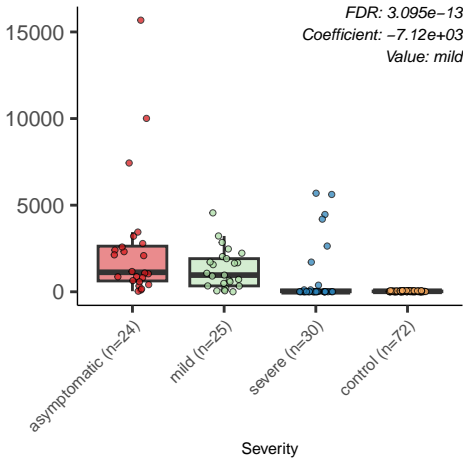


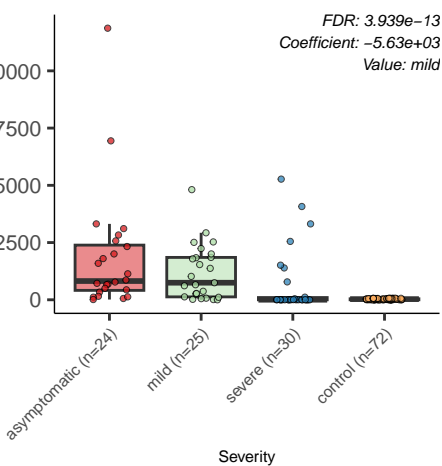
_Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Hyphomicrobia



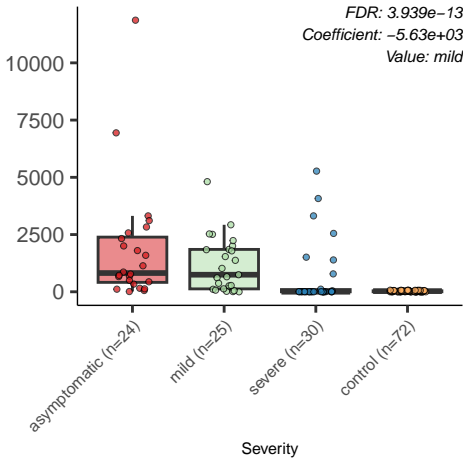


Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachno



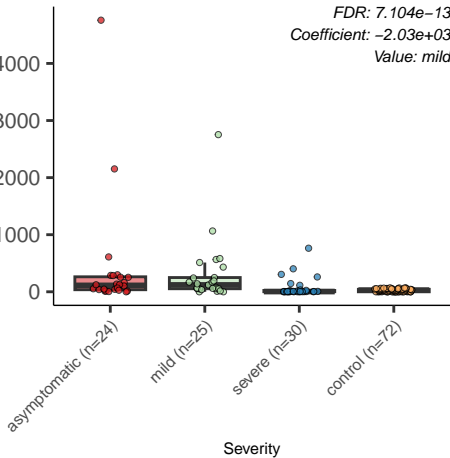


es.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__Pseudob



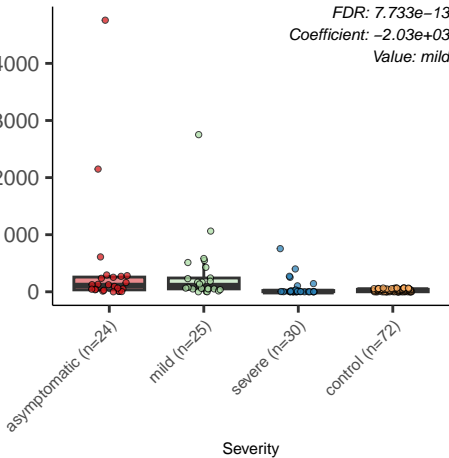
Bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnosp

FDR: $7.104e-13$
Coefficient: $-2.03e+03$
Value: mild



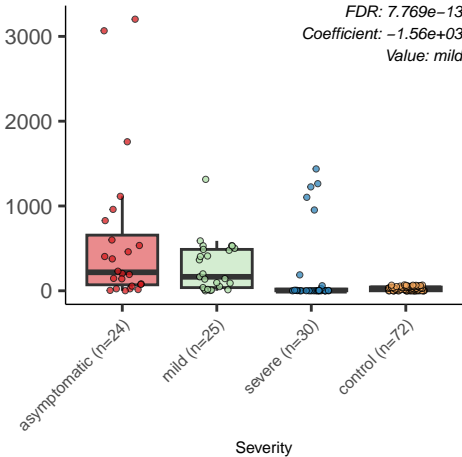
Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g

FDR: 7.733e-13
Coefficient: -2.03e+03
Value: mild

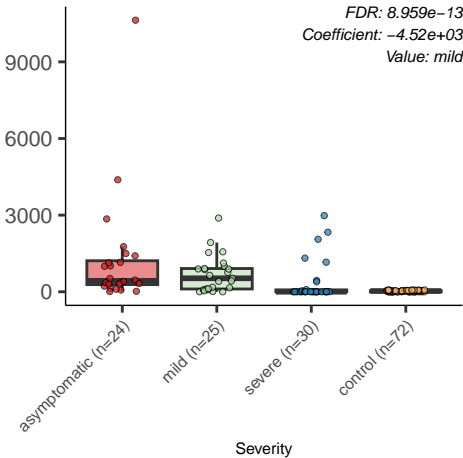


Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g

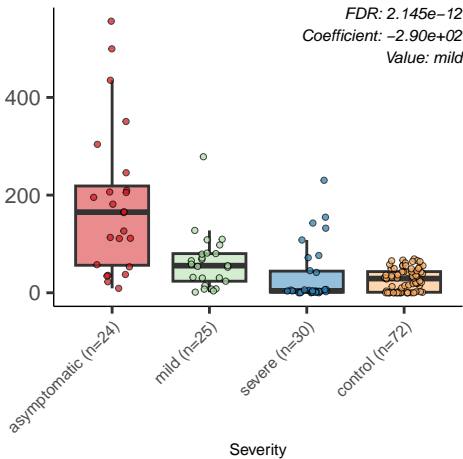
FDR: 7.769×10^{-13}
Coefficient: -1.56×10^3
Value: mild



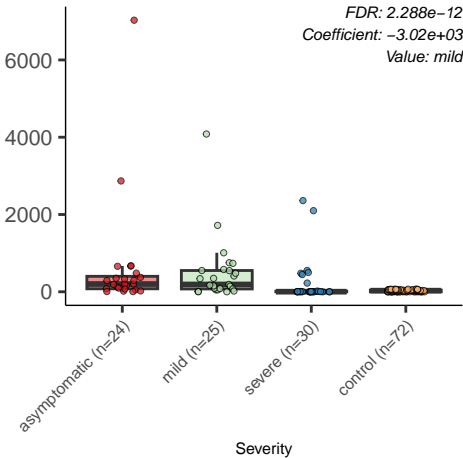
s.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__Lachnoclo



d_Bacteria.p__Firmicutes.c__Clostridia.o__Halanaerobiales.f

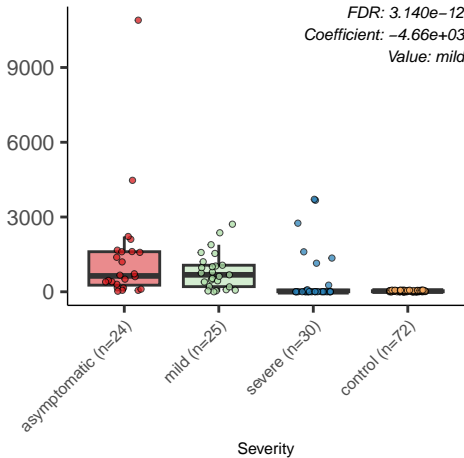


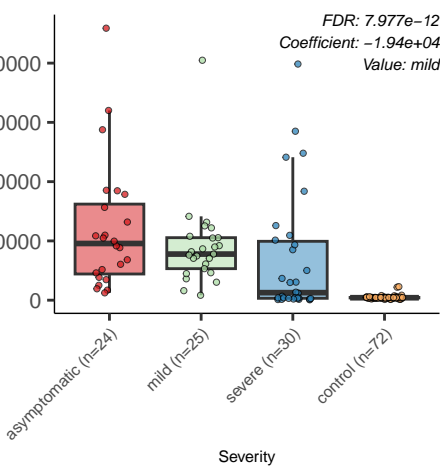
a.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnospiraceae

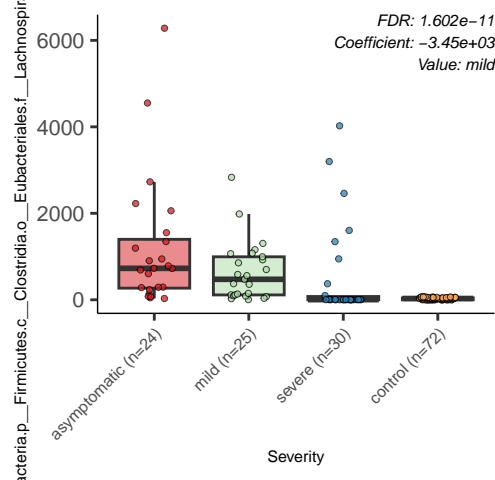


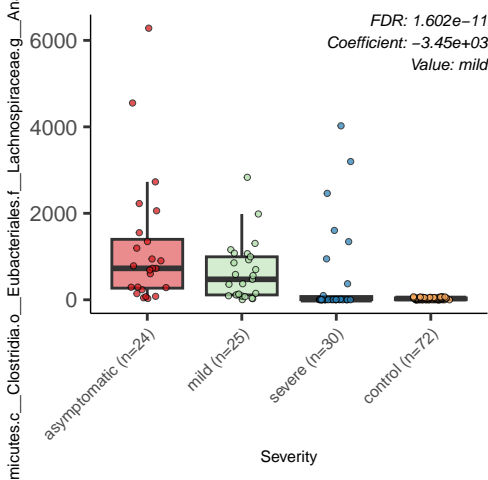
Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g

FDR: 3.140×10^{-12}
Coefficient: -4.66×10^3
Value: mild









cutes.c__Clostridia.o__Eubacteriales.f__Oscillospiraceae.g__Faeca

FDR: 2.363e-11
Coefficient: -9.97e+02
Value: mild

2000

1000

0

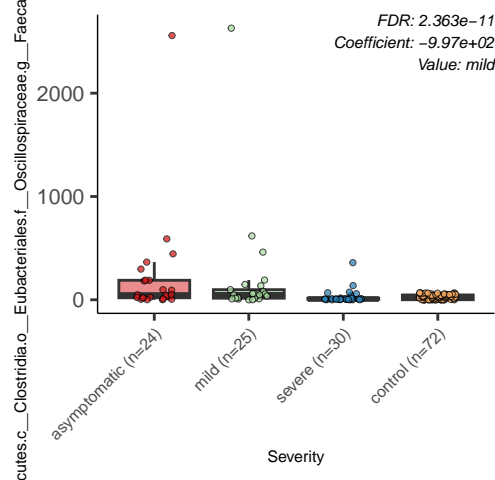
asymptomatic (n=24)

mild (n=25)

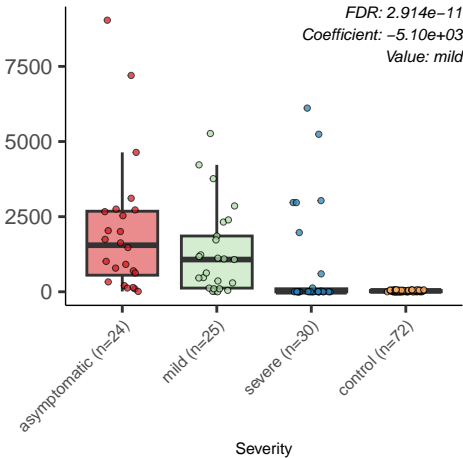
severe (n=30)

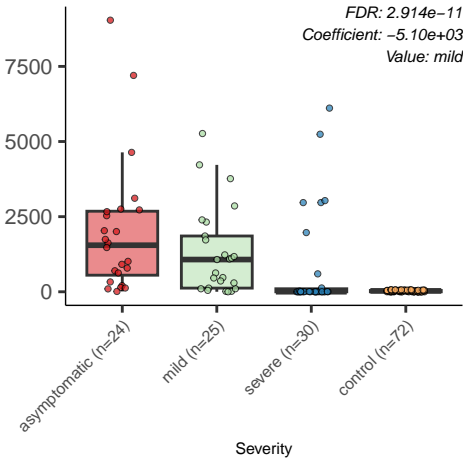
control (n=72)

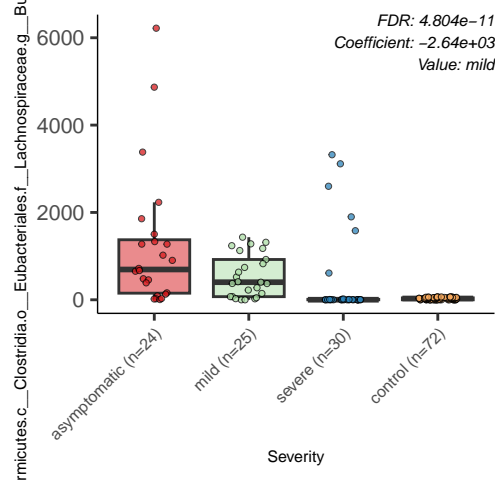
Severity

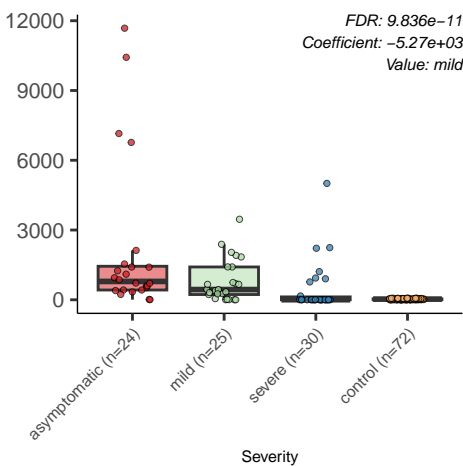


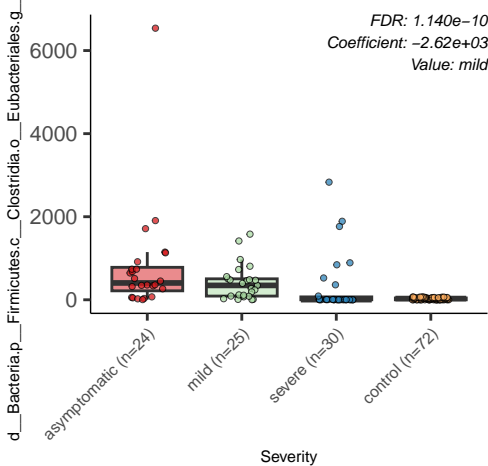
Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachno



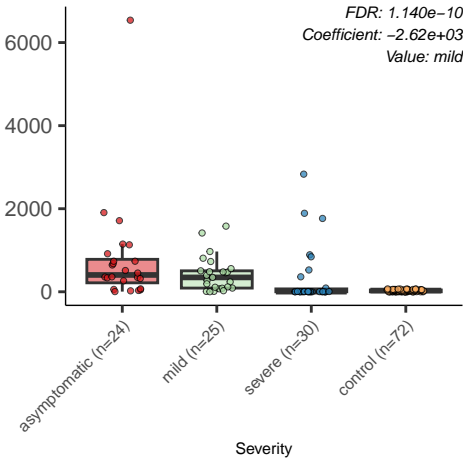




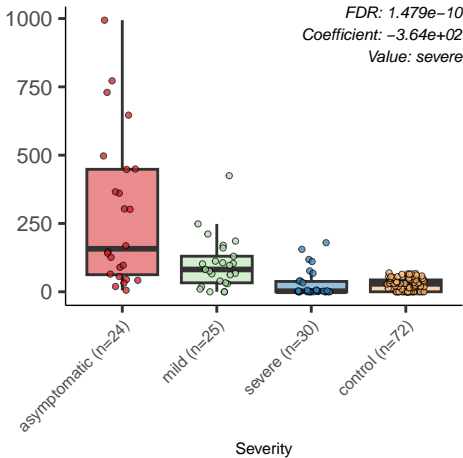


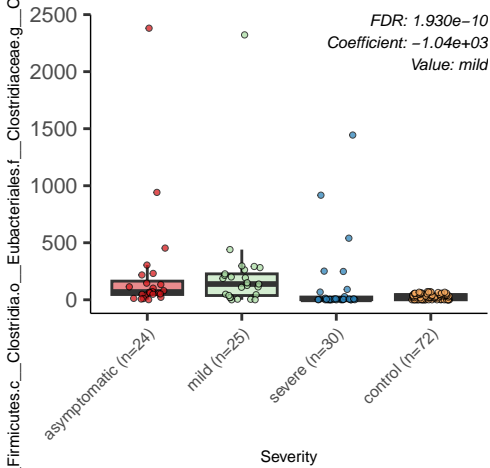


ria.p__Firmicutes.c__Clostridia.o__Eubacteriales.g__Massilistercora



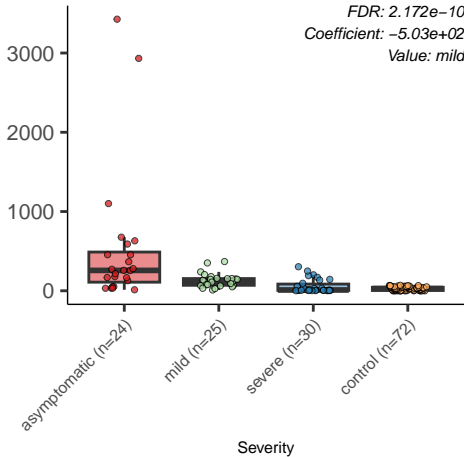
nicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Strep



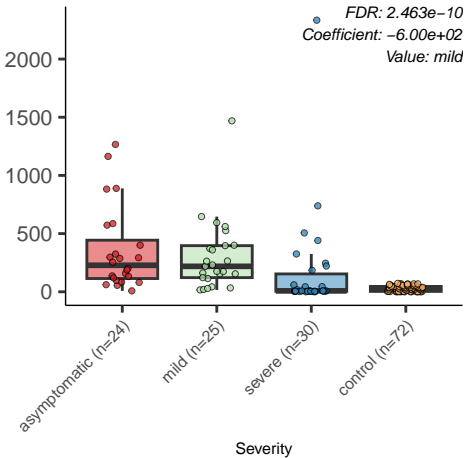


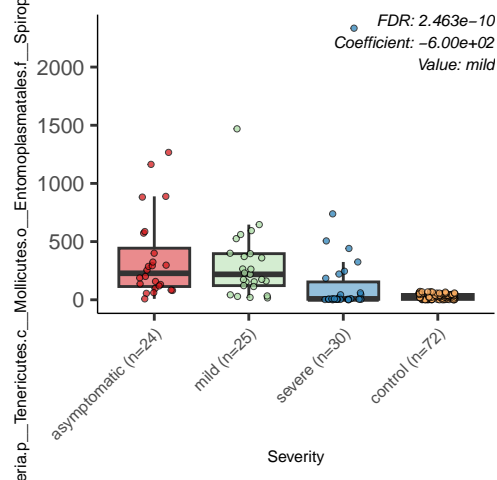
cteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfovibrion

FDR: 2.172e-10
Coefficient: -5.03e+02
Value: mild

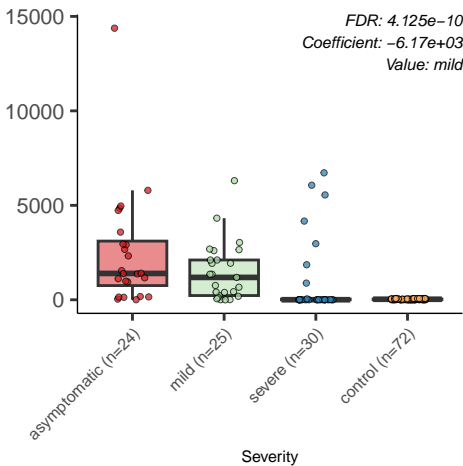


d_Bacteria.p_Tenericutes.p_Mollicutes.o_Entomoplasmatales.f

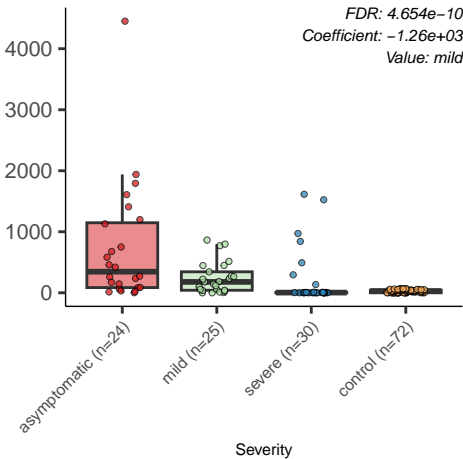


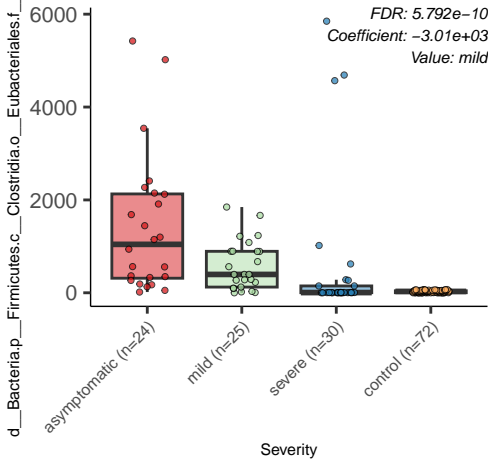


Bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnosp



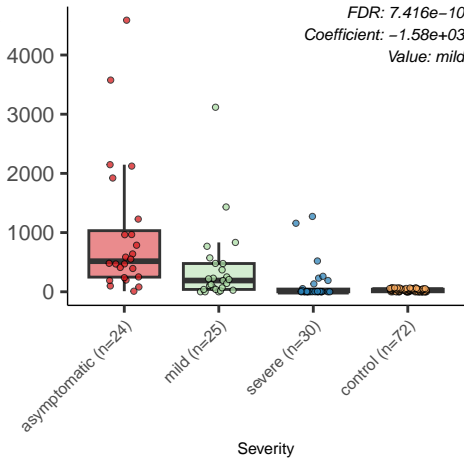
Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g

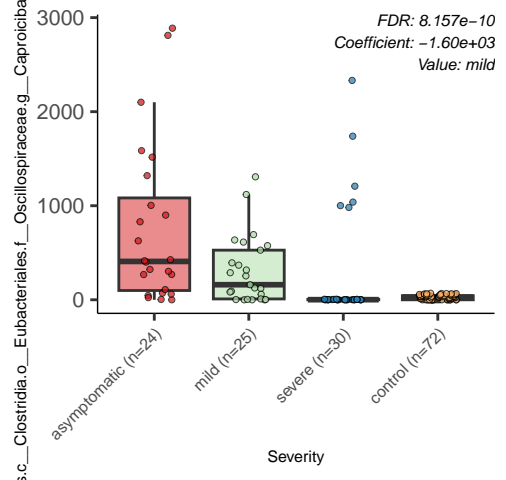




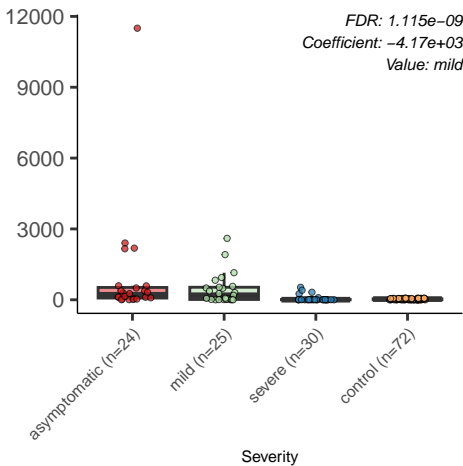
Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__S

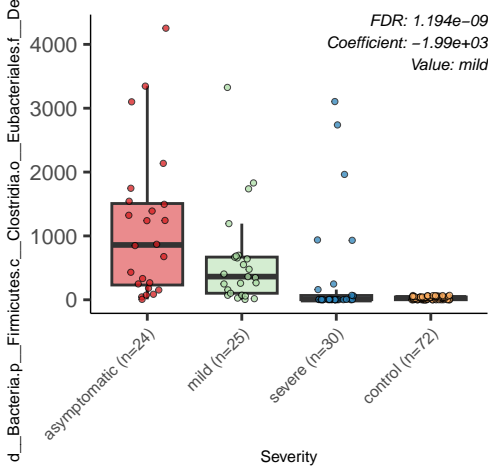
FDR: $7.416e-10$
Coefficient: $-1.58e+03$
Value: mild



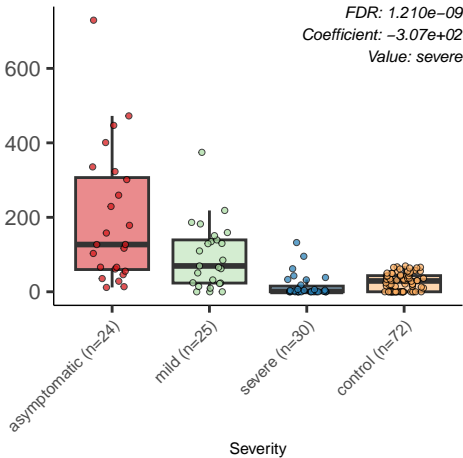


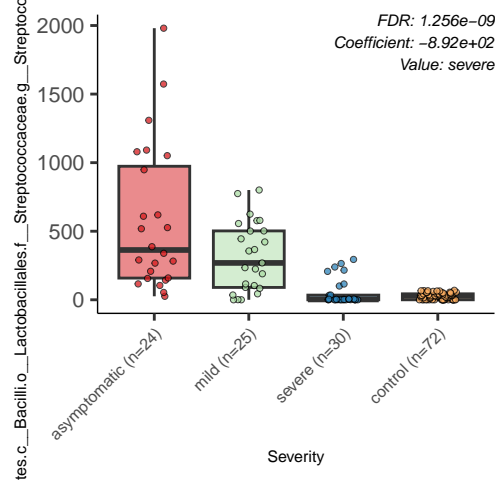
mmaproteobacteria.o__Cardiobacteriales.f__Cardiobacteriaceae.g

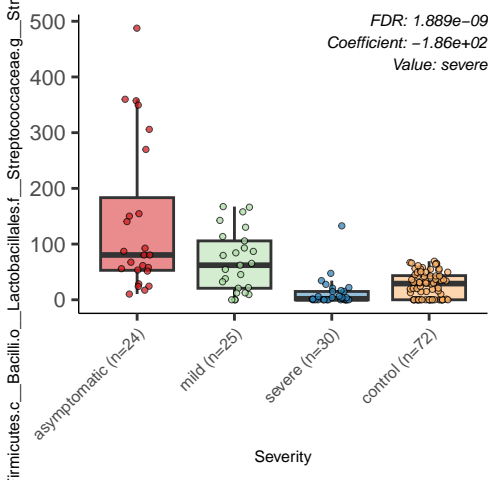


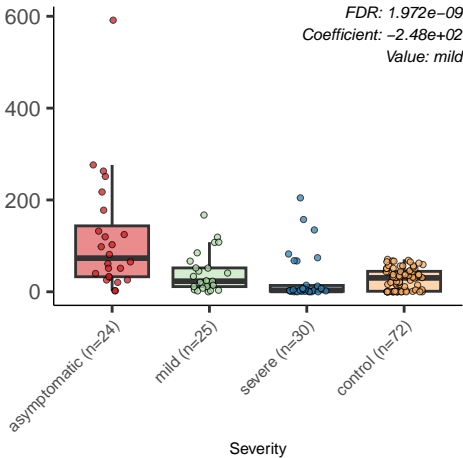


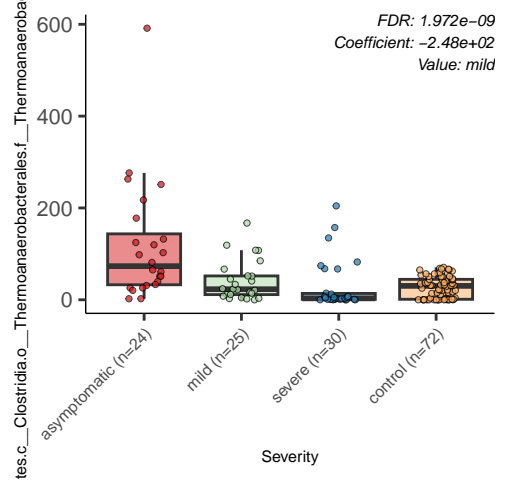
micutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Streptococcus

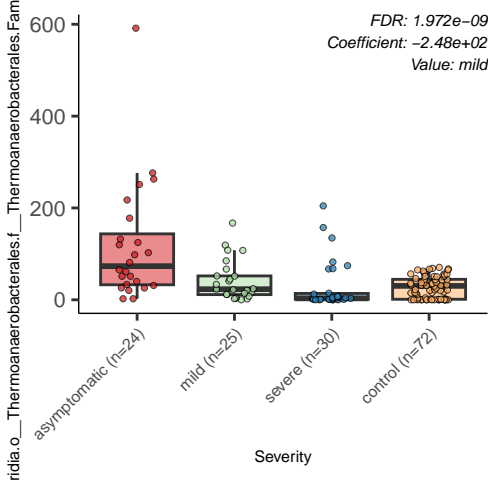






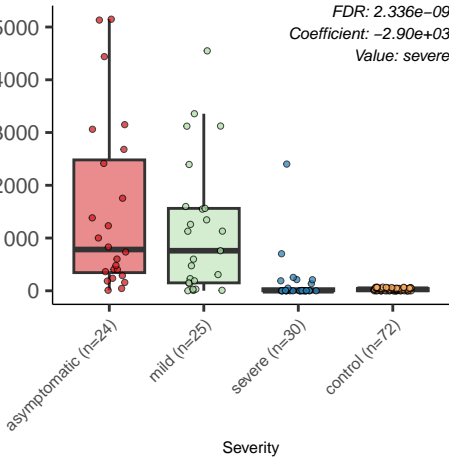


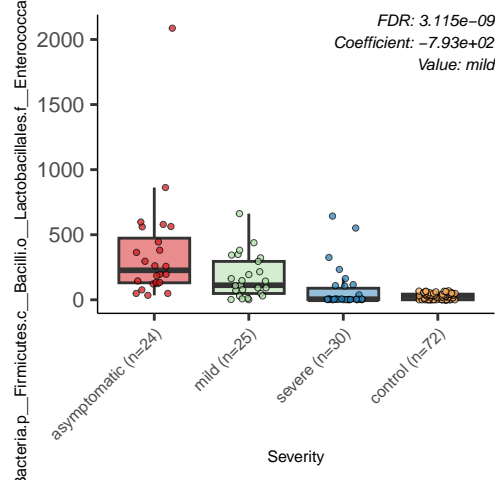


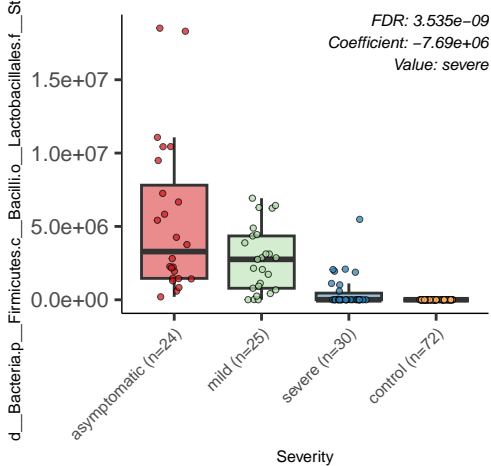


rmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Stre

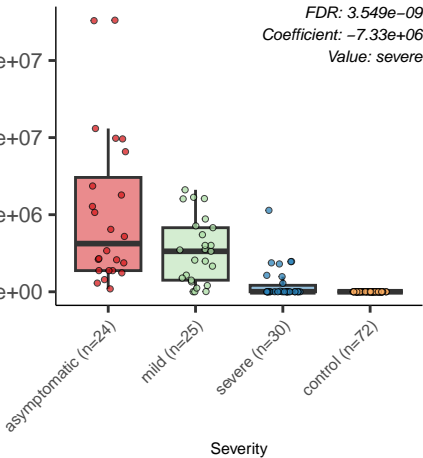
FDR: 2.336e-09
Coefficient: -2.90e+03
Value: severe

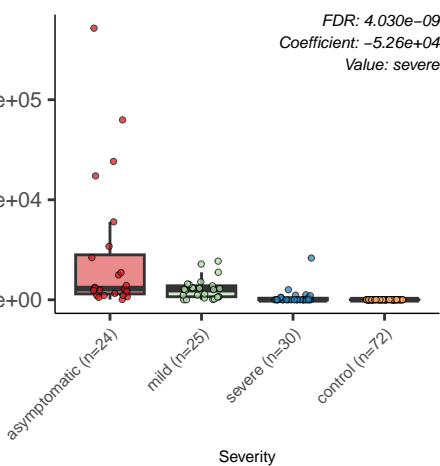


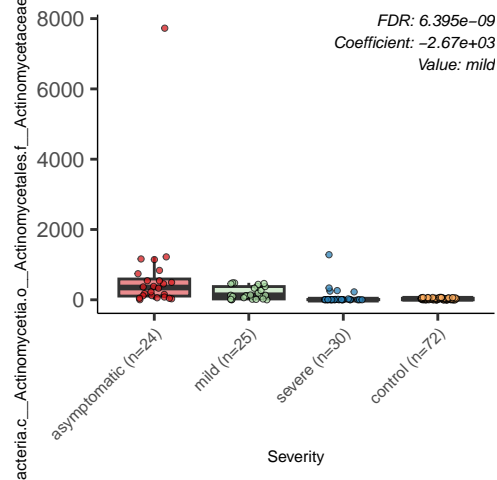


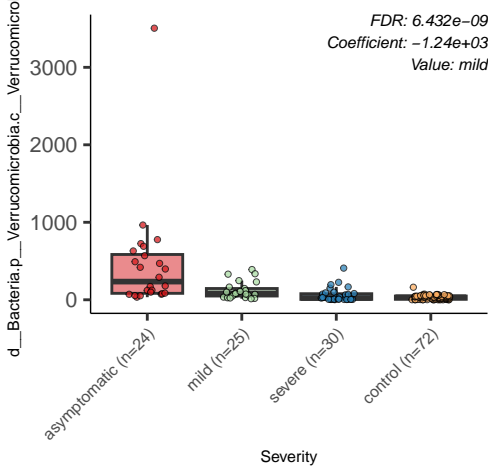


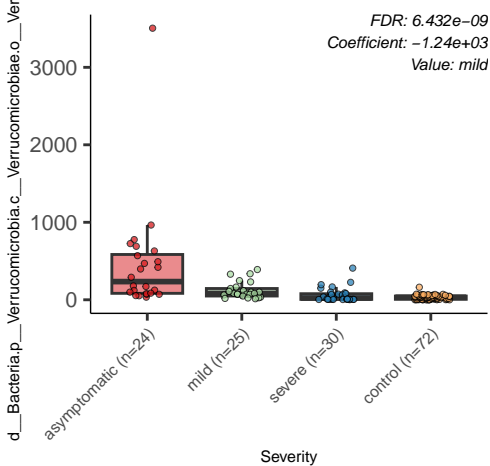
Bacteria.p_Firmicutes.c_Bacilli.o_Lactobacillales.f_Streptococ





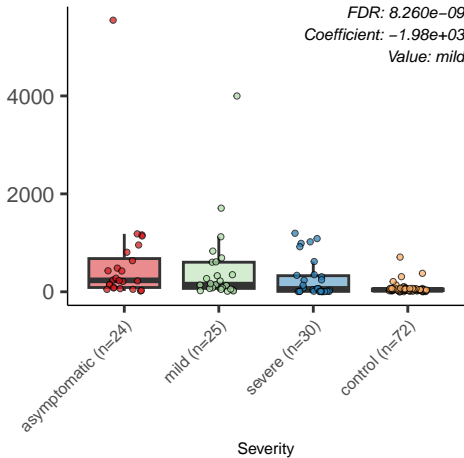


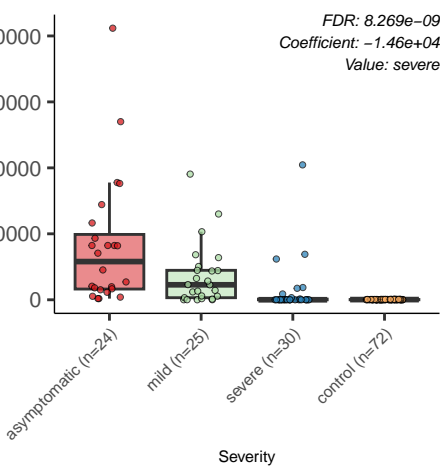




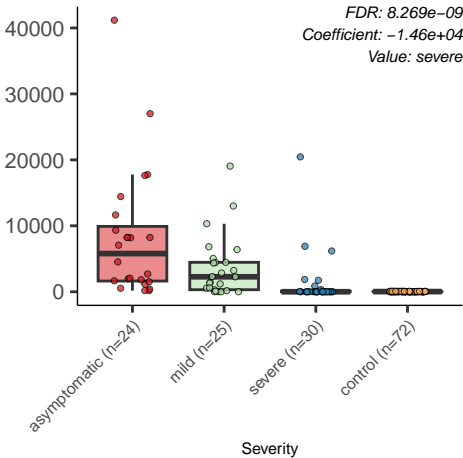
utes.c__Tissierellia.o__Tissierellales.f__Peptoniphilaceae.g__Anaer

FDR: 8.260e-09
Coefficient: -1.98e+03
Value: mild

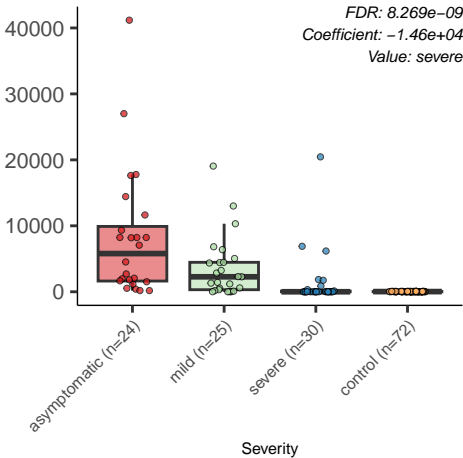




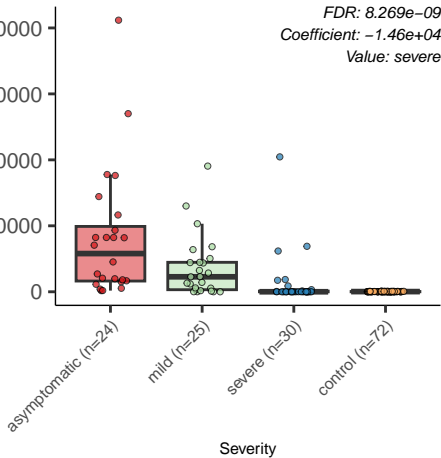
Saccharibacteria.c__Candidatus.Saccharimonadia.o__Candidatus.Sac

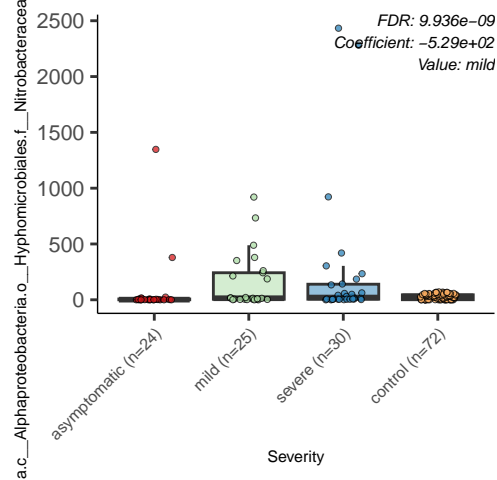


Candidatus.Saccharimonadia.o__Candidatus.Saccharimonadales

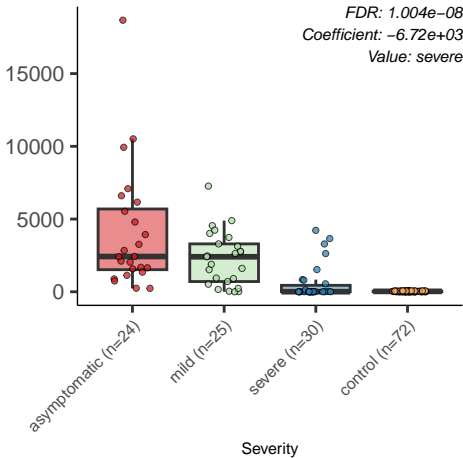


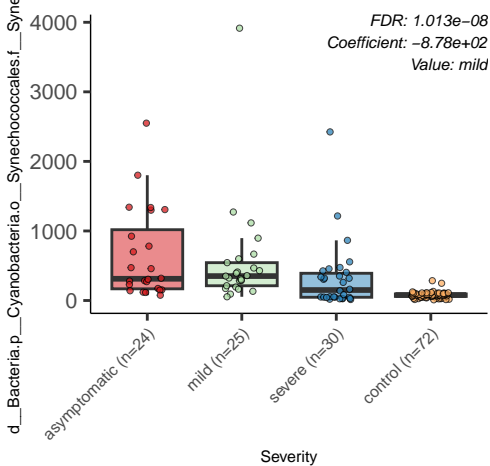
monadia.o__Candidatus.Saccharimonadales.f__Candidatus.Saccha

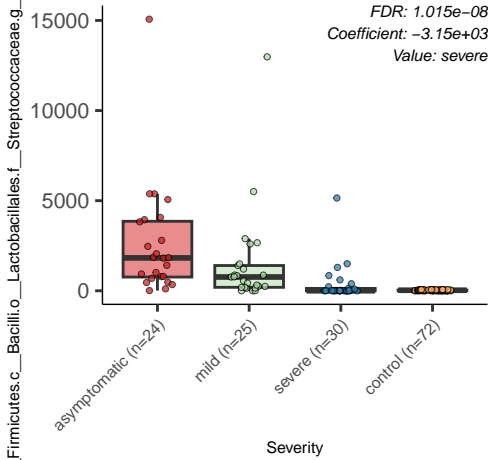




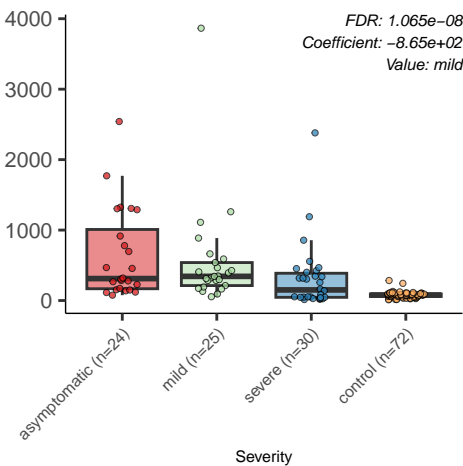
irmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Stre

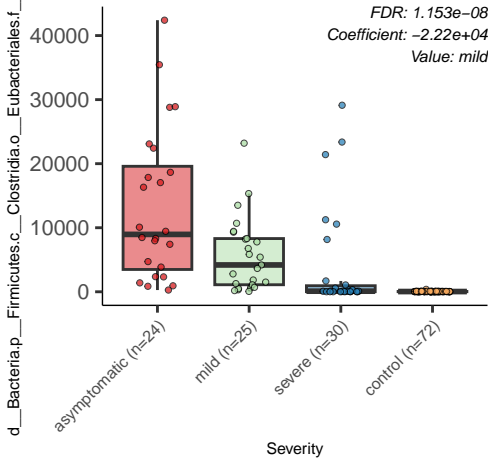


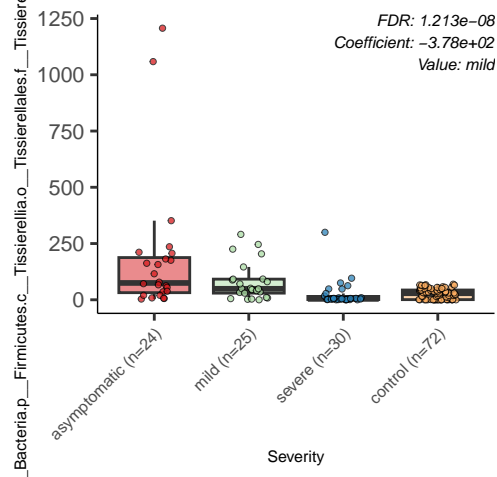


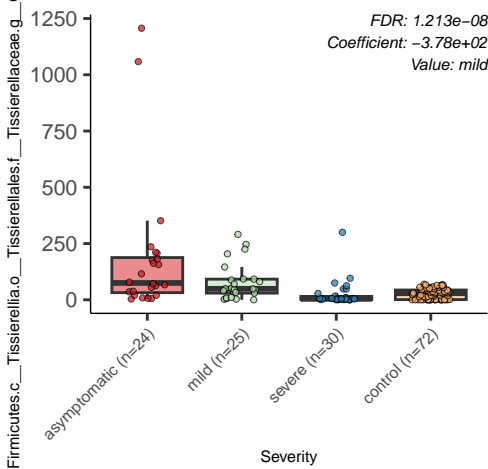


Bacteria.p__Cyanobacteria.o__Synechococcales.f__Synechococcales

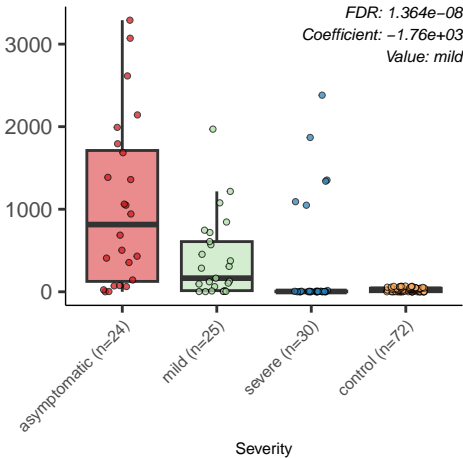




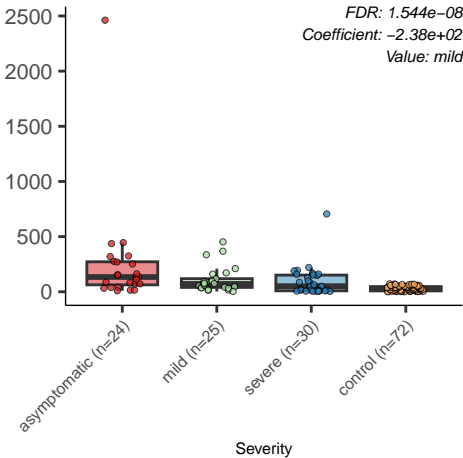


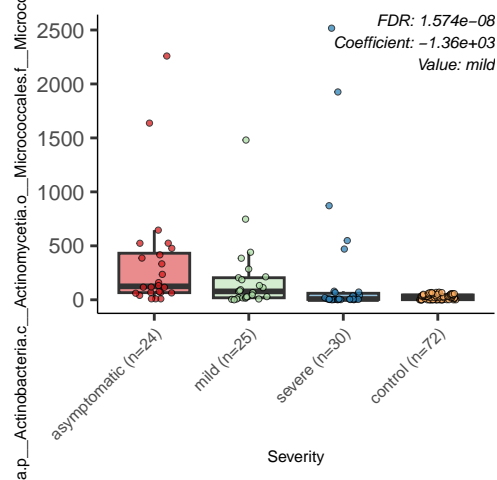


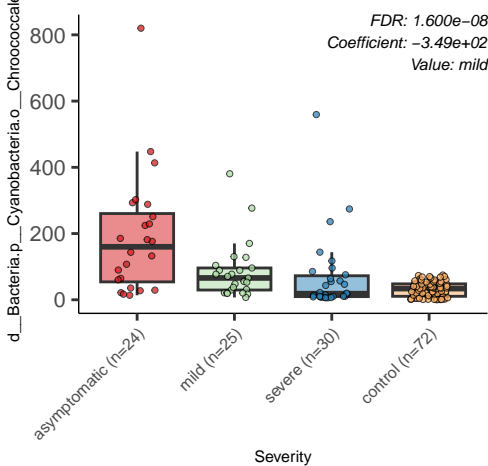
acteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Oscillospira

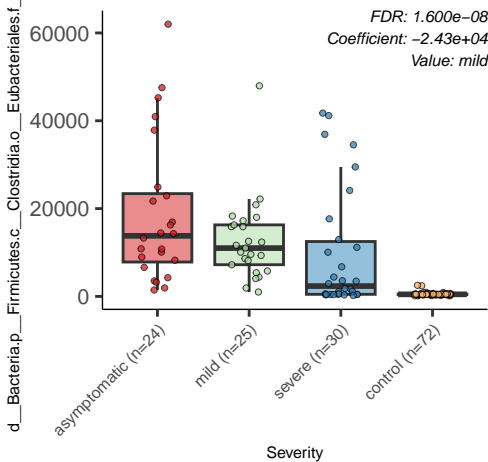


a.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__C

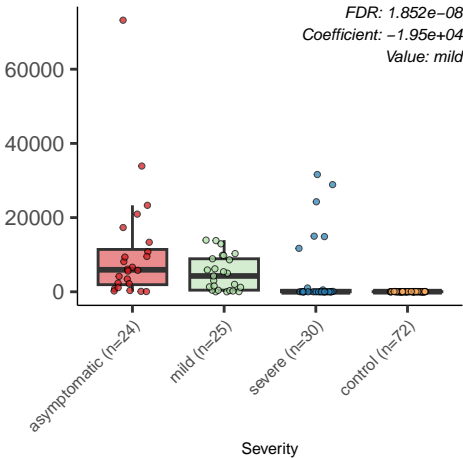






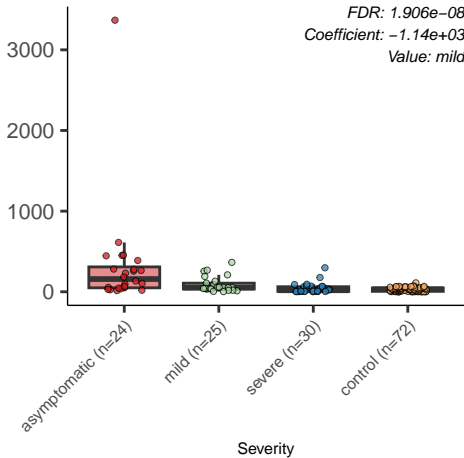


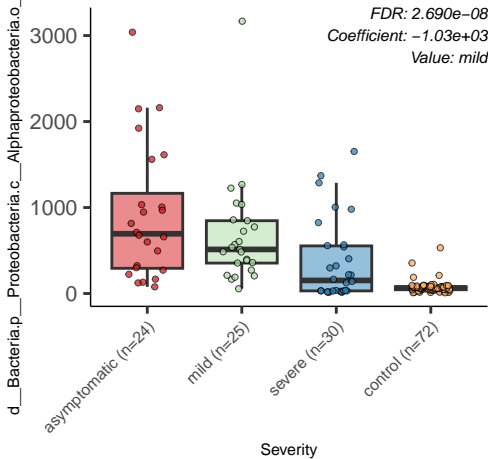
_Bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnos

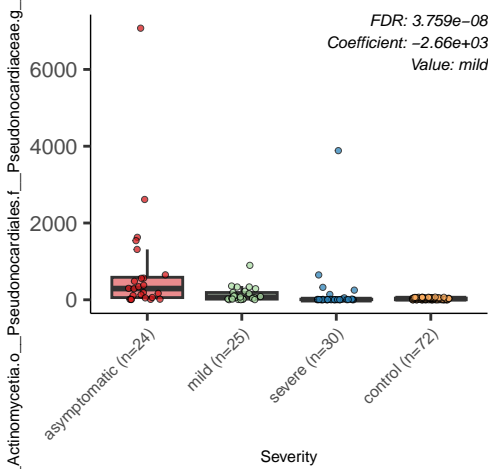


acteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobia

FDR: 1.906e-08
Coefficient: -1.14e+03
Value: mild

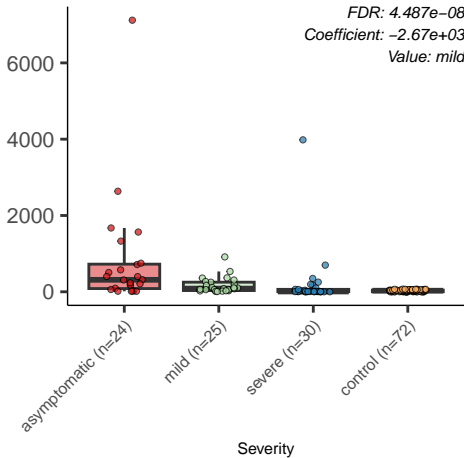




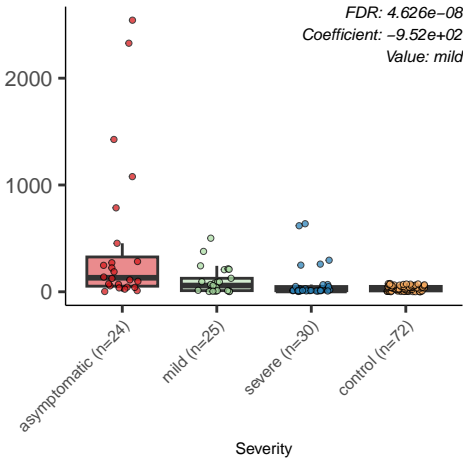


Actinobacteria.c_Actinomycetia.o_Pseudonocardiales.f_Pseudo

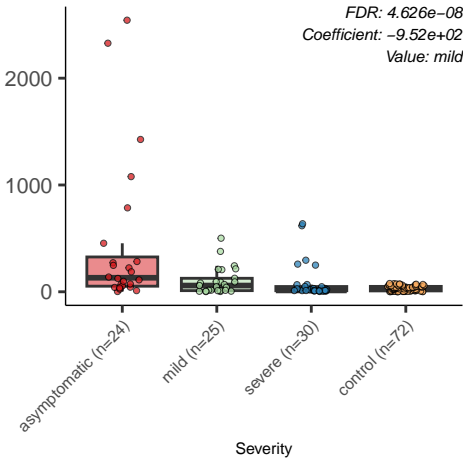
FDR: $4.487e-08$
Coefficient: $-2.67e+03$
Value: mild

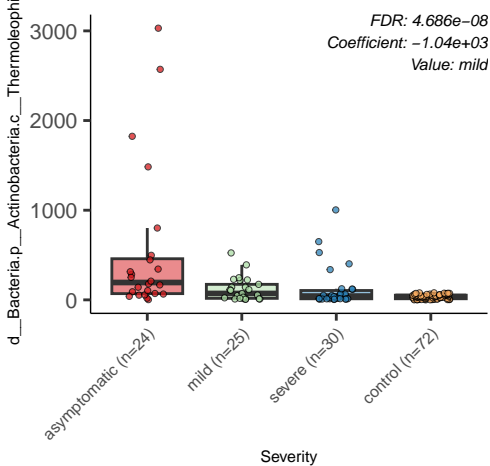


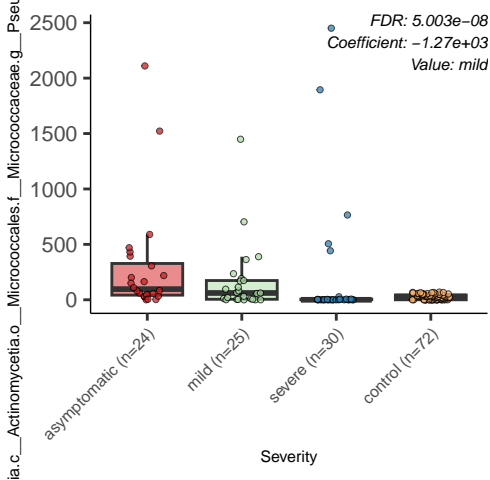
Bacteria.p_Actinobacteria.c_Thermoleophilia.o_Solirubrobactera

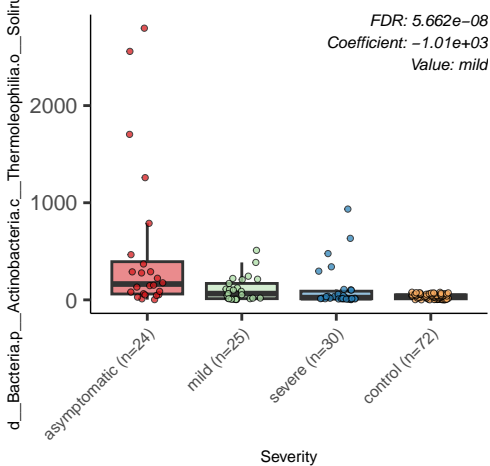


o_Actinobacteria.c_Thermoleophilia.o_Solirubrobacterales.f_Co









d_Bacteria.p_Acidobacteria

FDR: 6.240e-08
Coefficient: -2.52e+03
Value: mild

4000

2000

0

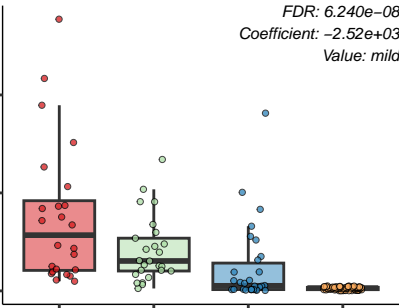
asymptomatic (n=24)

mild (n=25)

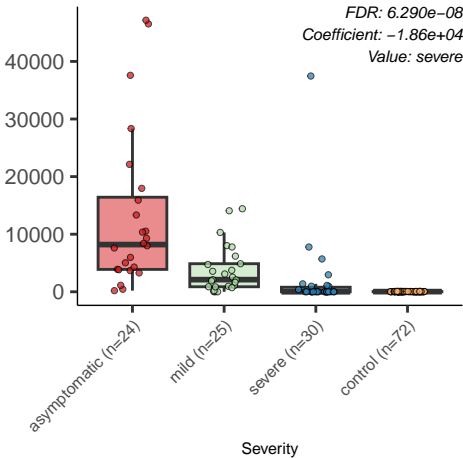
severe (n=30)

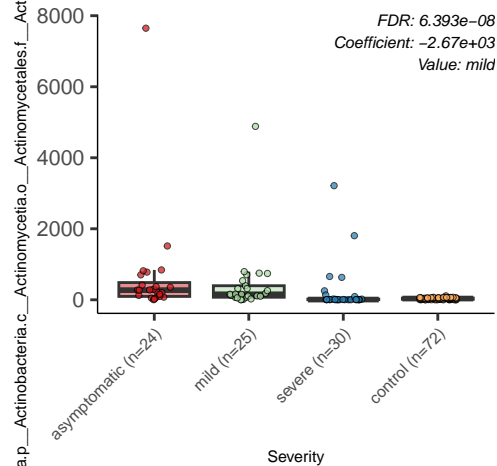
control (n=72)

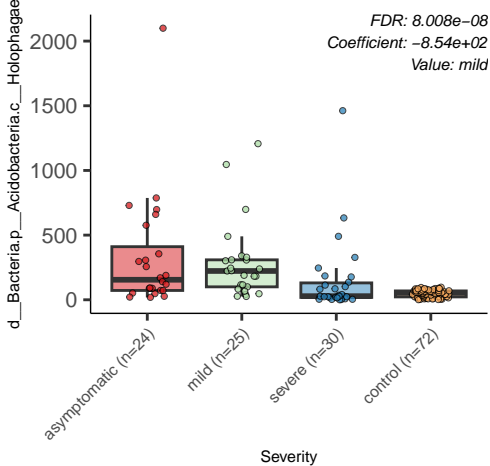
Severity

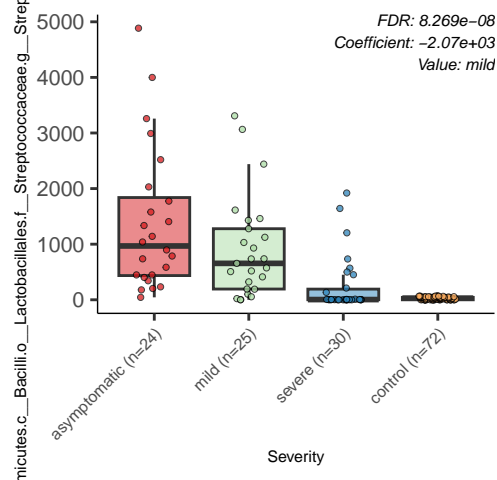


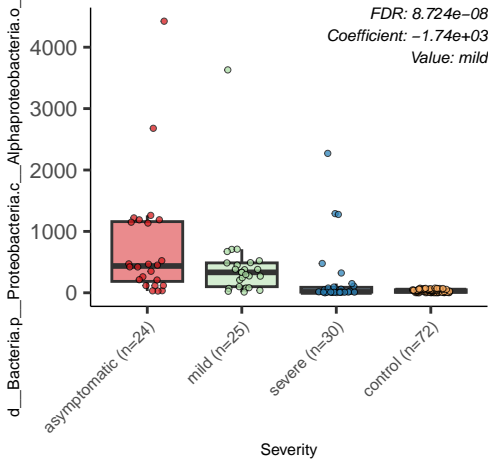
Firmicutes.c_Bacilli.o_Lactobacillales.f_Streptococcaceae.g



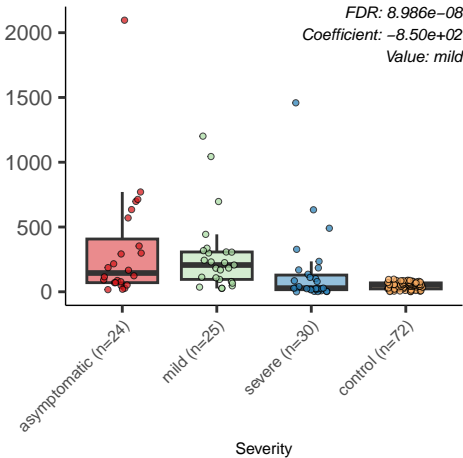




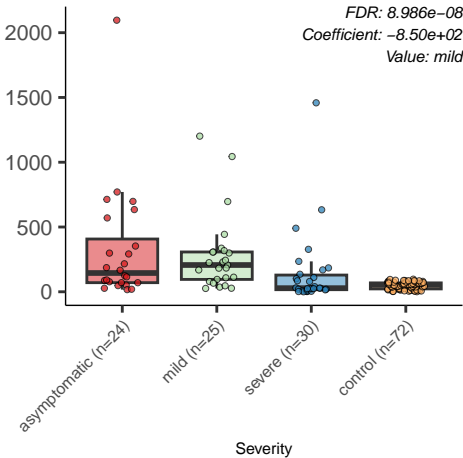




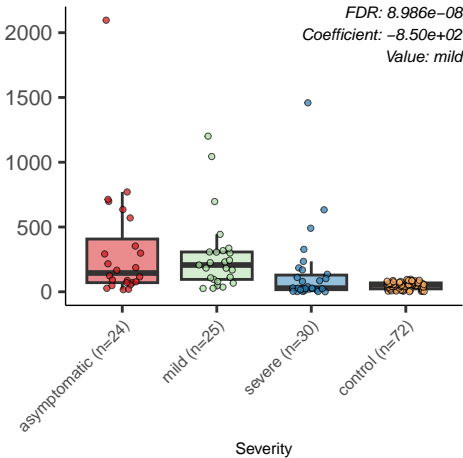
d_Bacteria.p_Acidobacteria.c_Holophagae.o_Acanthop



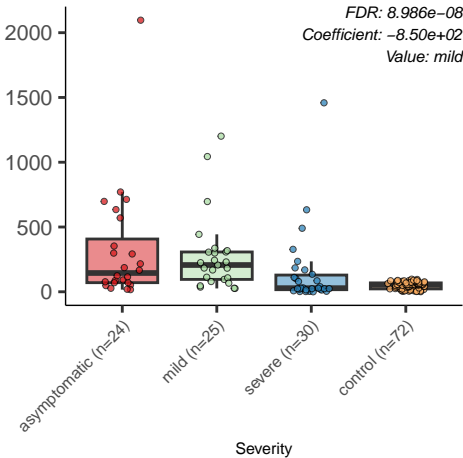
terial.p__Acidobacteria.c__Holophagae.o__Acanthopleuribacteriales.



Acidobacteria.c__Holophagae.o__Acanthopleuribacterales.f__Acan



i.c._Holophagae.o_Acanthopleuribacterales.f_Acanthopleuribacte



d_Bacteria.p__Tenericutes.c__Mollicutes.o__Acholeplasma

FDR: $9.621e-08$
Coefficient: $-9.97e+02$
Value: mild

6000

4000

2000

0

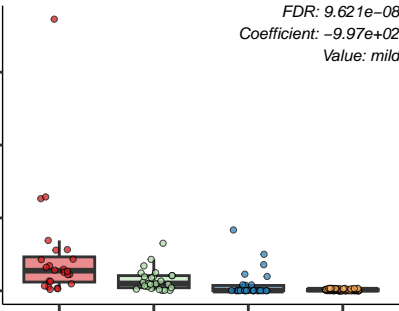
asymptomatic (n=24)

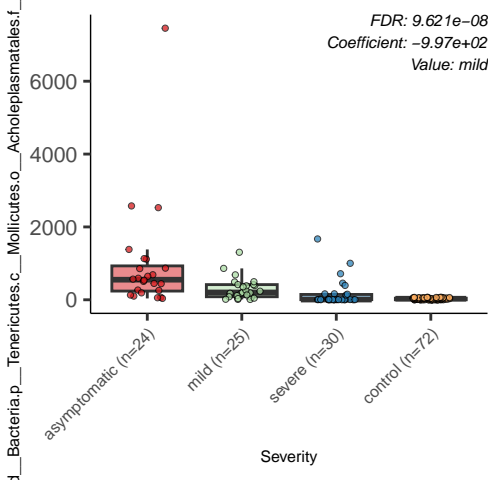
mild (n=25)

severe (n=30)

control (n=72)

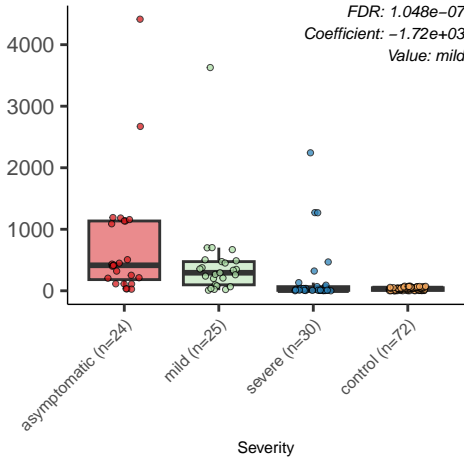
Severity

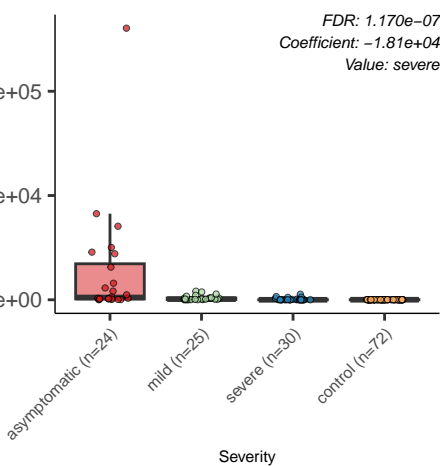


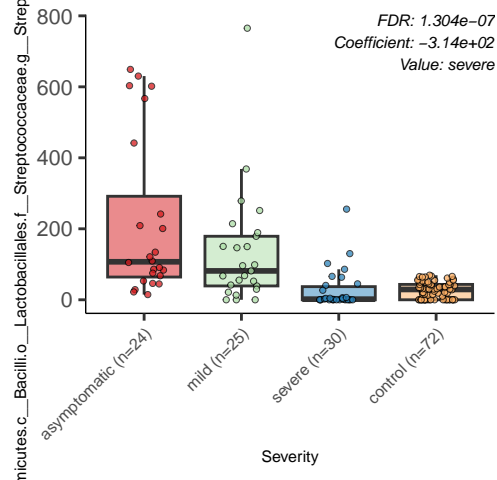


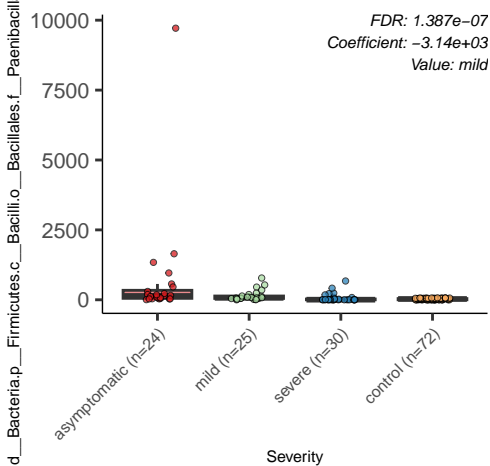
Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Holospor

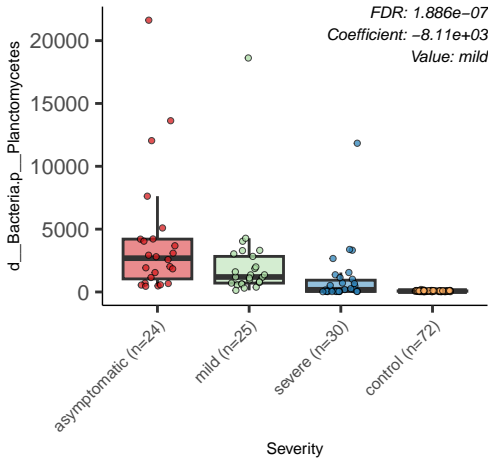
FDR: $1.048e-07$
Coefficient: $-1.72e+03$
Value: mild

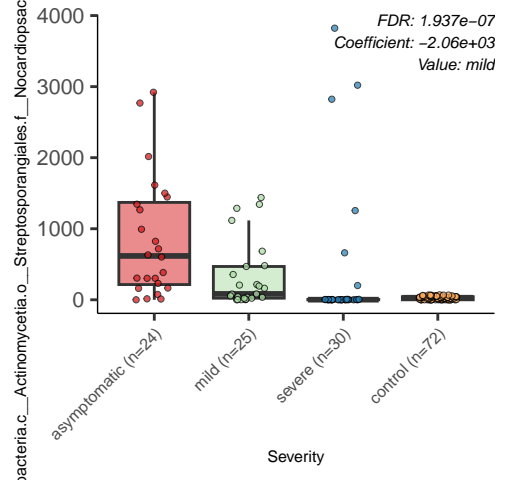






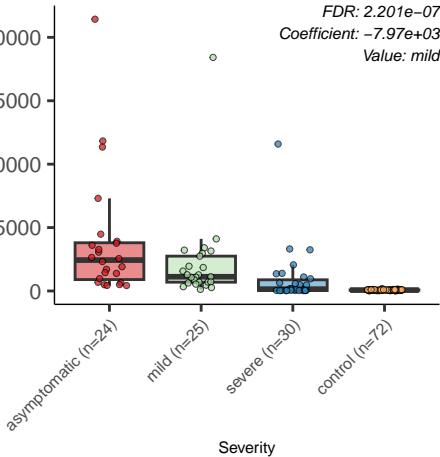


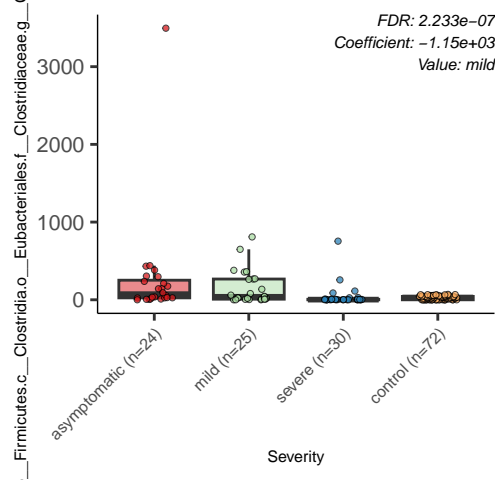


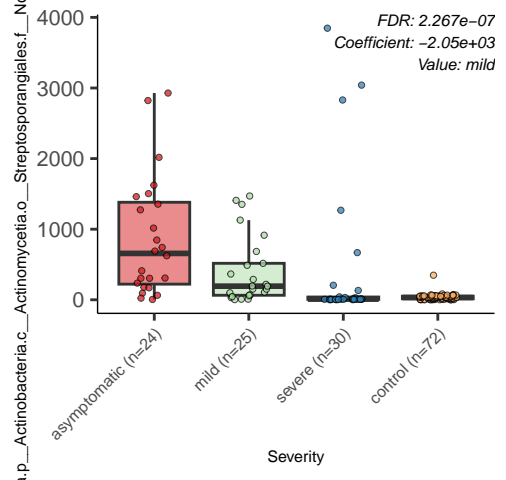


d__Bacteria.p__Planctomycetes.c__Planctomycetes

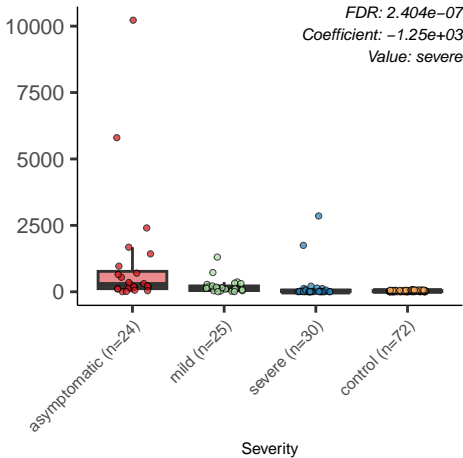
FDR: $2.201e-07$
Coefficient: $-7.97e+03$
Value: mild







ria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobactera



Proteobacteria.c__Gammaproteobacteria.o__Oceanospirillales.f__

1e+05

5e+04

0e+00

asymptomatic (n=24)

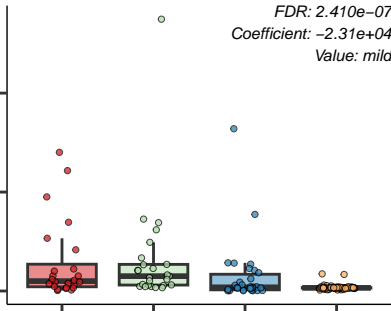
mild (n=25)

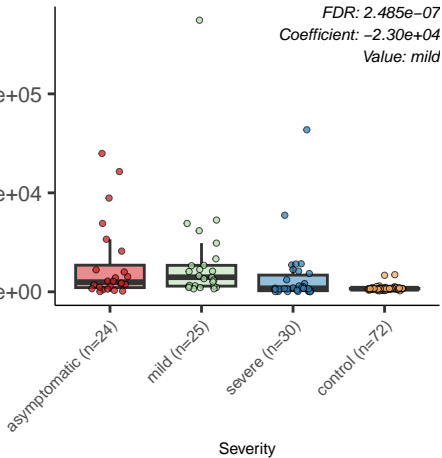
severe (n=30)

control (n=72)

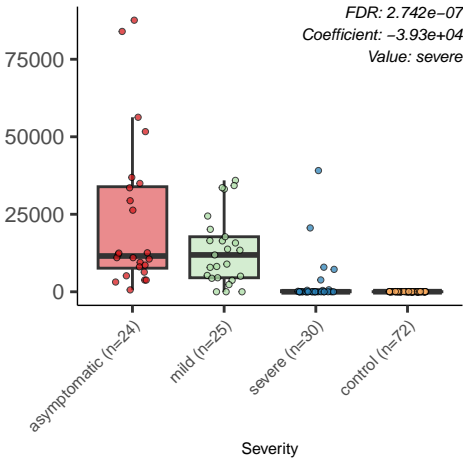
Severity

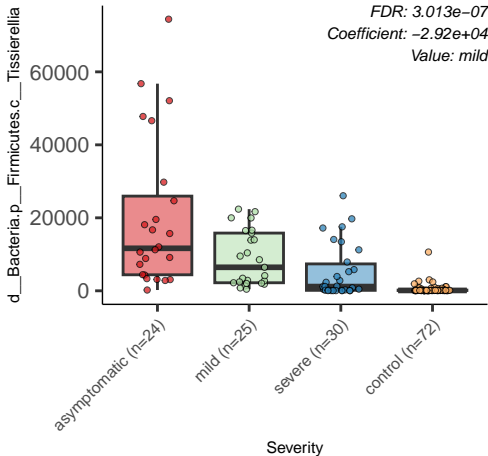
FDR: 2.410e-07
Coefficient: -2.31e+04
Value: mild



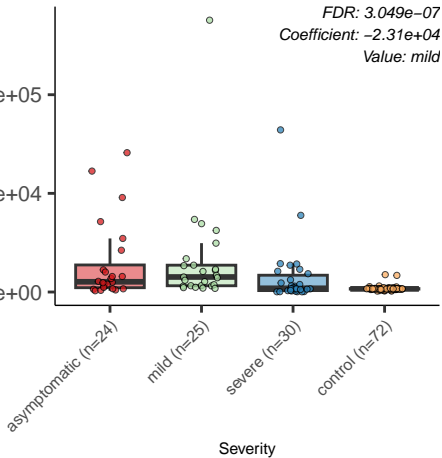


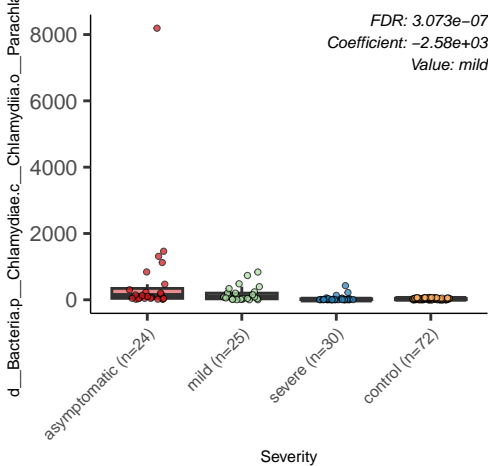
cutus.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Strepto



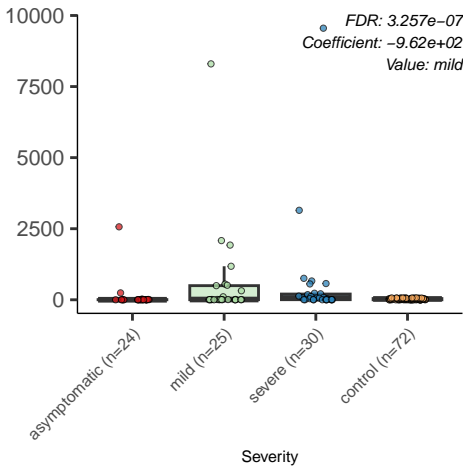


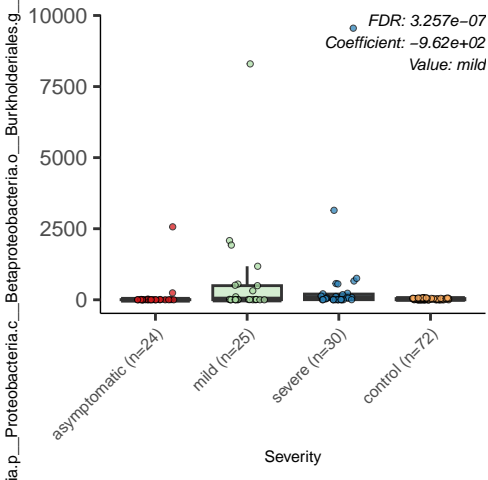
bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceanospir

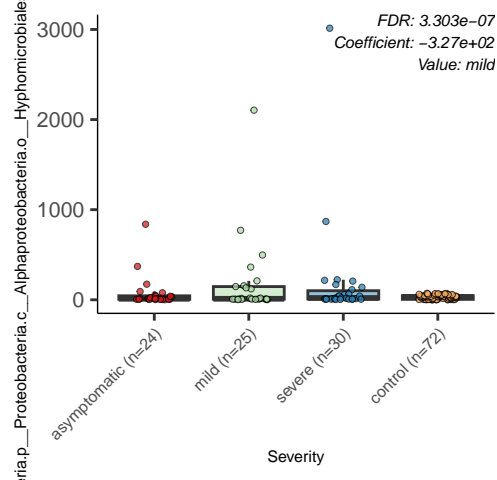


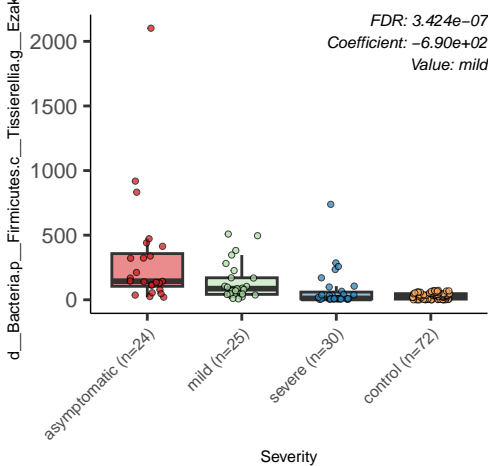


d__Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia

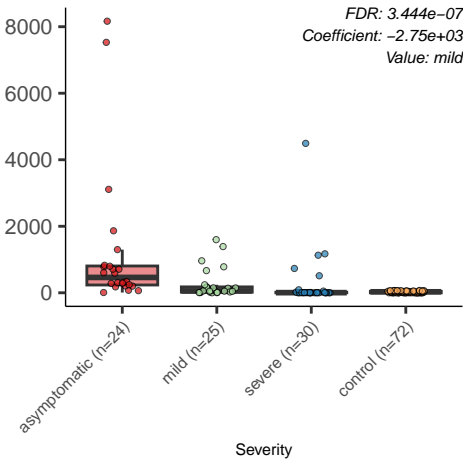


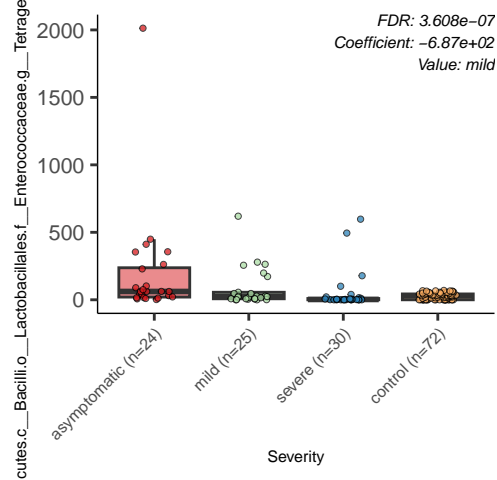


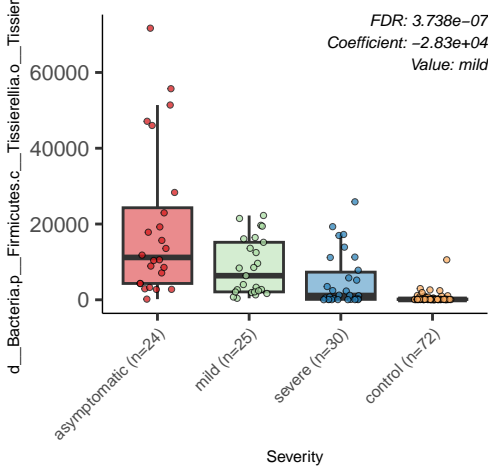


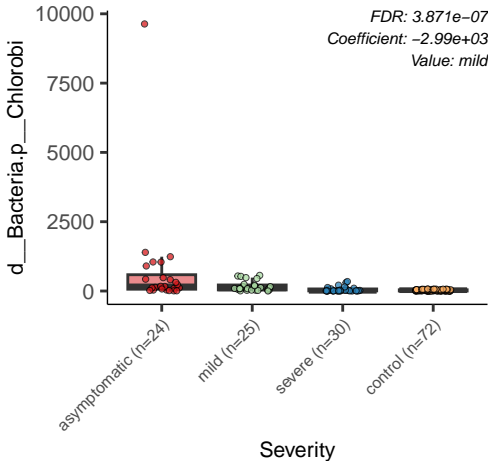


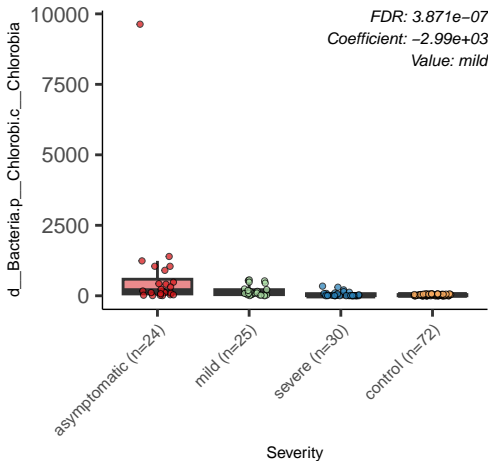
bbacteria.c__Actinomycetia.o__Actinomycetales.f__Actinomycetaceae

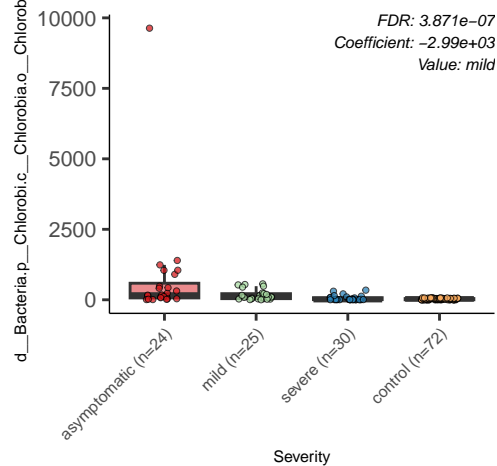


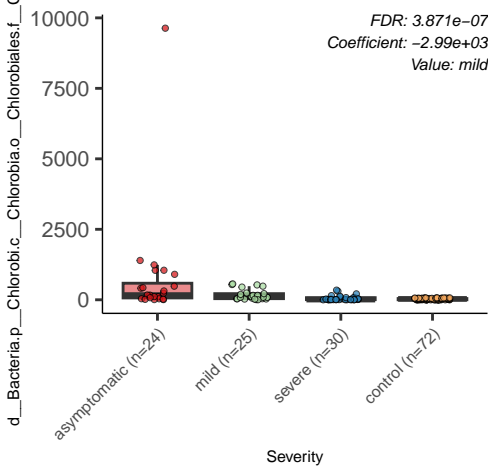




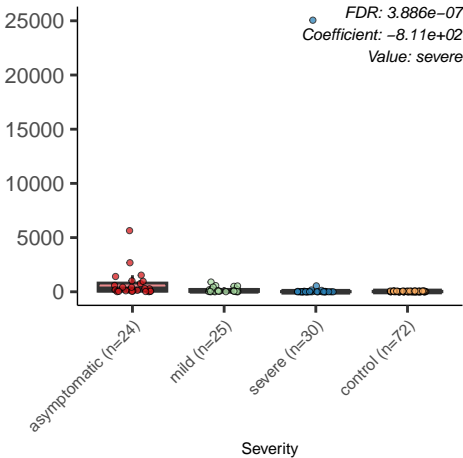


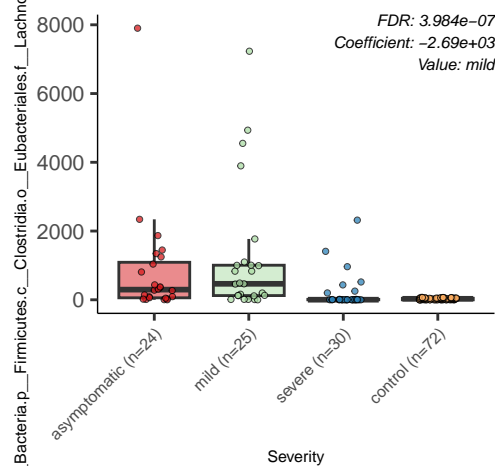




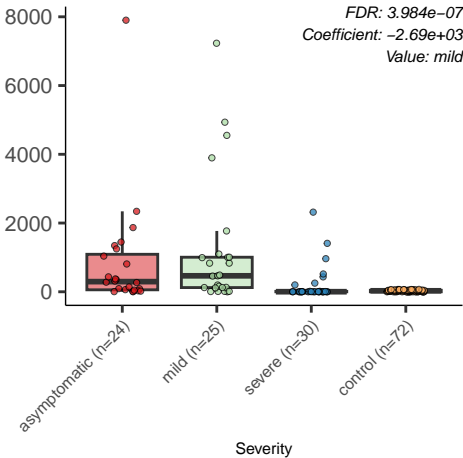


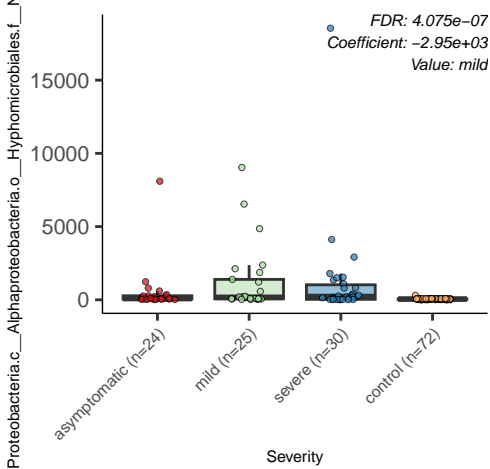
Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__S

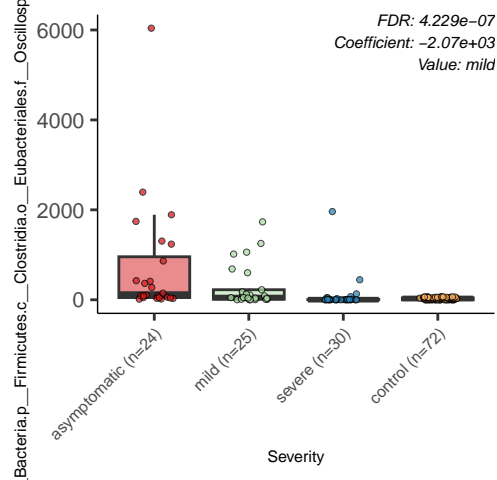




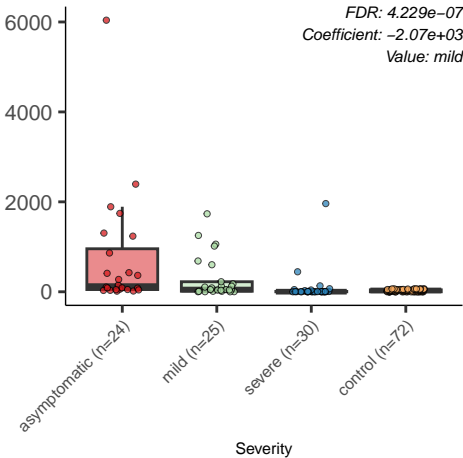
ia.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnospiraceae

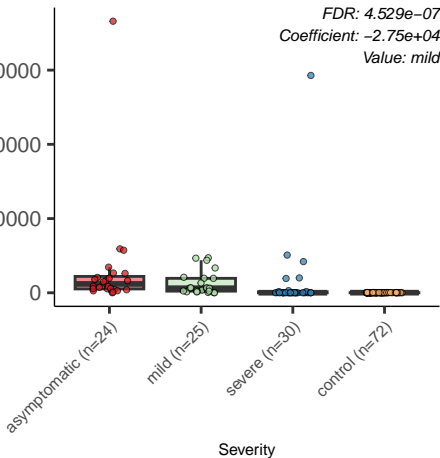


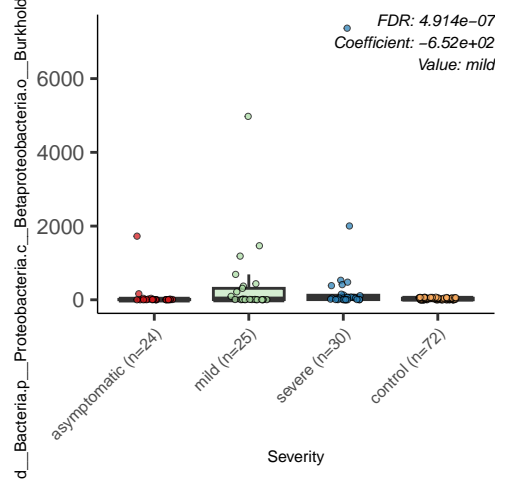


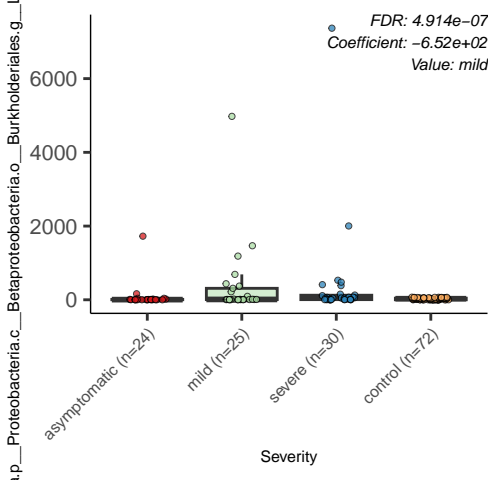


Firmicutes.c__Clostridia.o__Eubacteriales.f__Oscillospiraceae.g__F

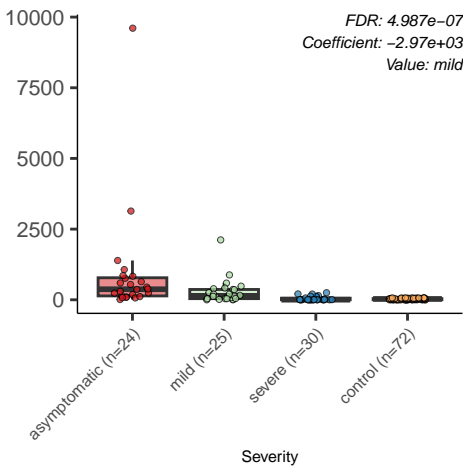


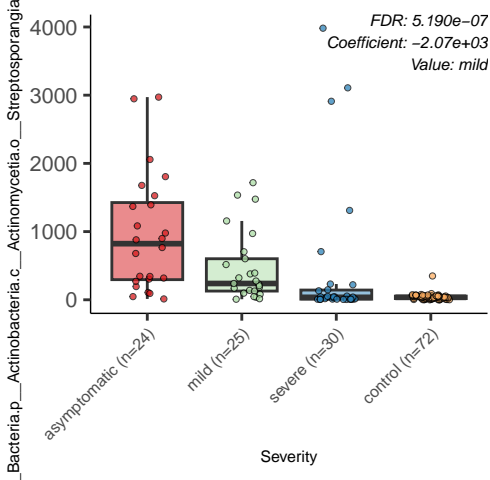






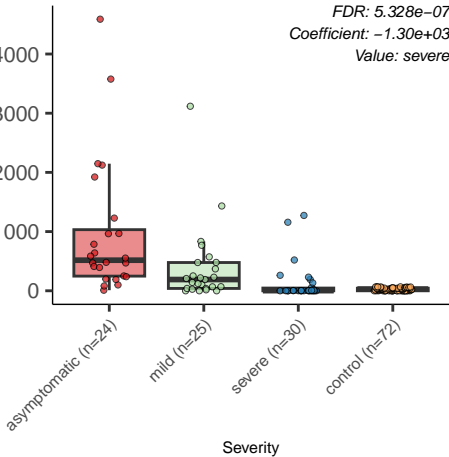
Firmicutes.c_Bacilli.o_Lactobacillales.f_Streptococcaceae.g_St

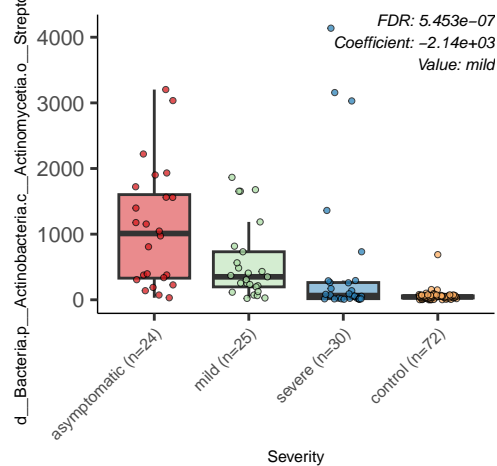




Firmicutes.c_Bacilli.o_Lactobacillales.f_Streptococcaceae.g_s

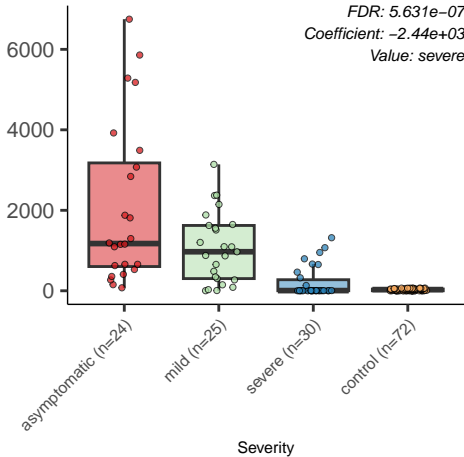
FDR: 5.328e-07
Coefficient: -1.30e+03
Value: severe

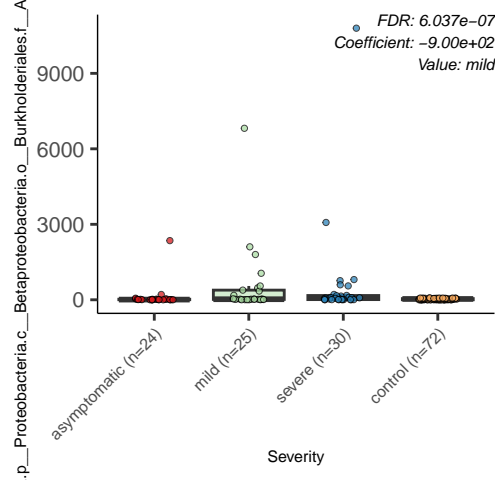




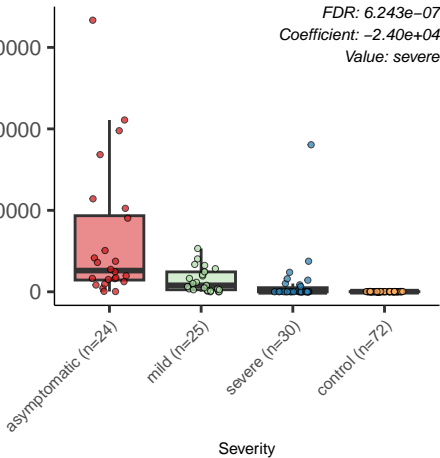
rmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Stre

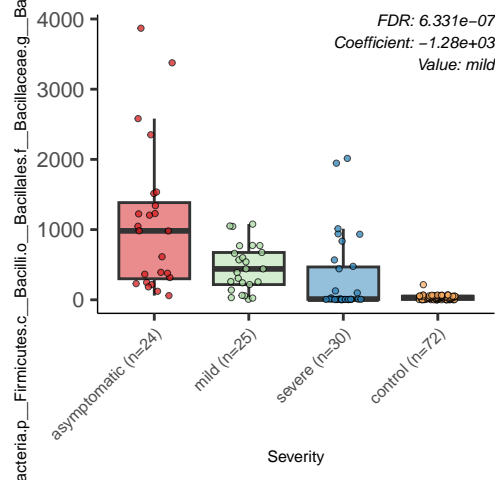
FDR: 5.631e-07
Coefficient: -2.44e+03
Value: severe



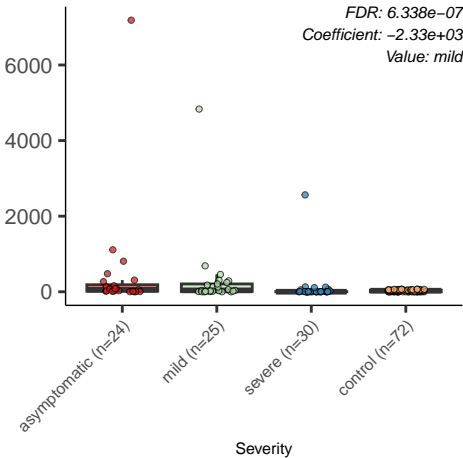


micutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Stre



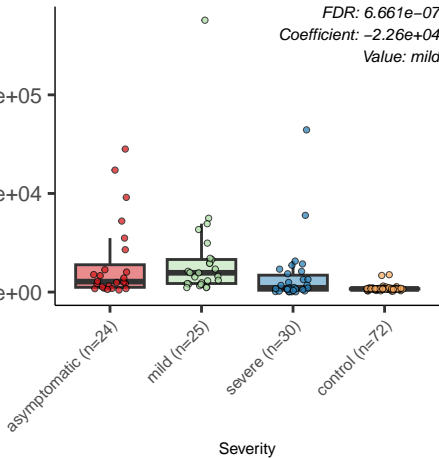


bacteria.c_Actinomycetia.o_Actinomycetales.f_Actinomycetaceae



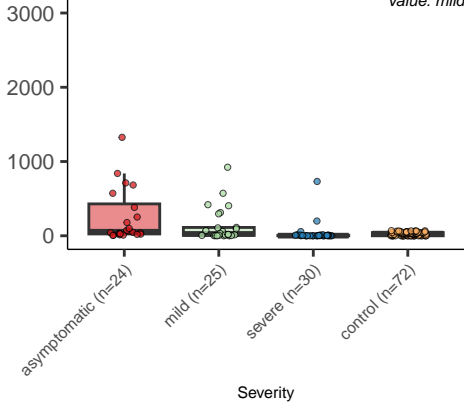
d_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__

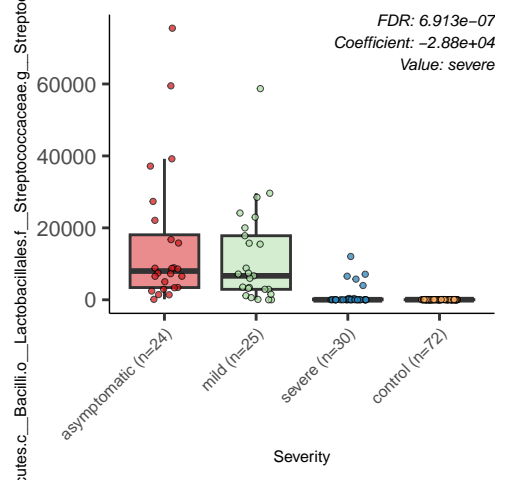
FDR: 6.661e-07
Coefficient: -2.26e+04
Value: mild

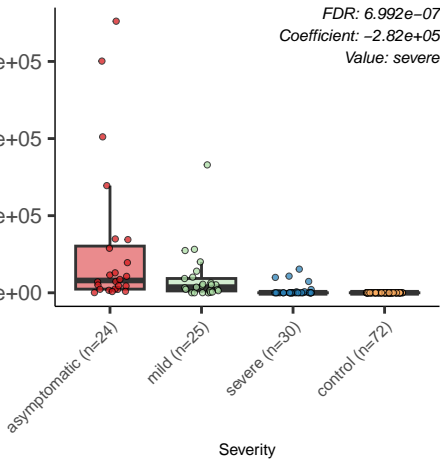


Firmicutes.c__Clostridia.o__Eubacteriales.f__Oscillospiraceae.g

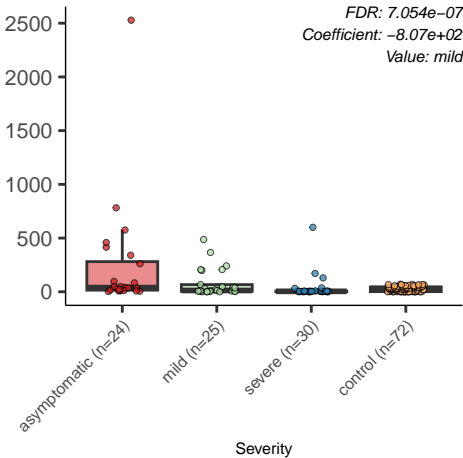
FDR: $6.740e-07$
Coefficient: $-1.19e+03$
Value: mild





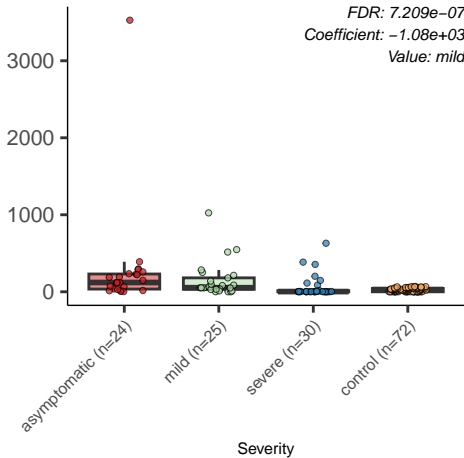


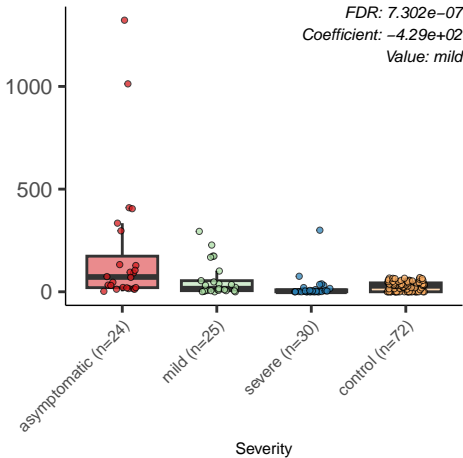
ria.c__Thermoleophilia.o__Solirubrobacterales.f__Conexibacteraceae

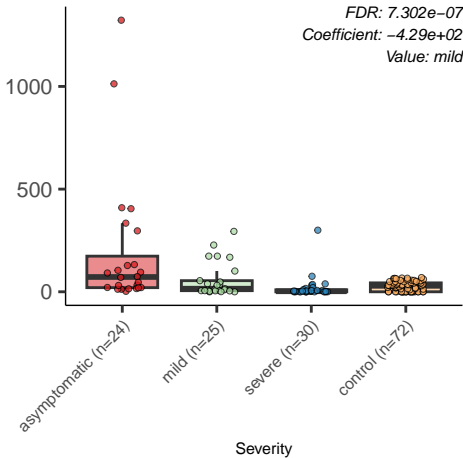


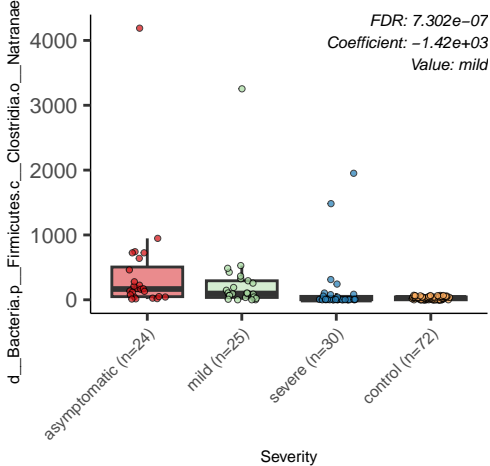
Firmicutes.c__Clostridia.o__Eubacteriales.f__Oscillospiraceae.g__R

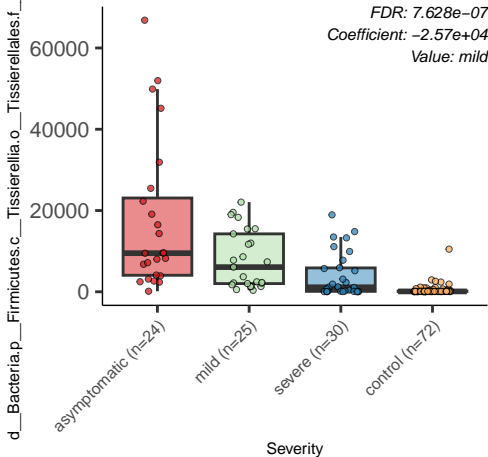
FDR: 7.209e-07
Coefficient: -1.08e+03
Value: mild

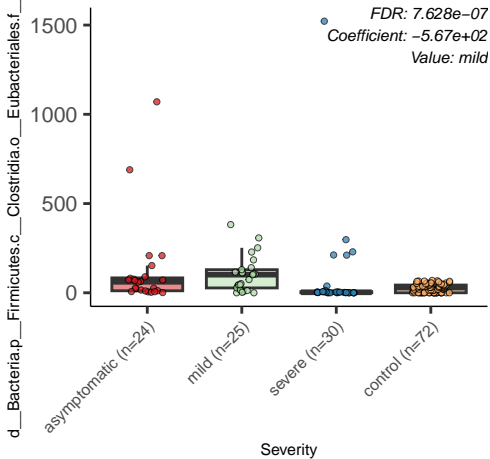


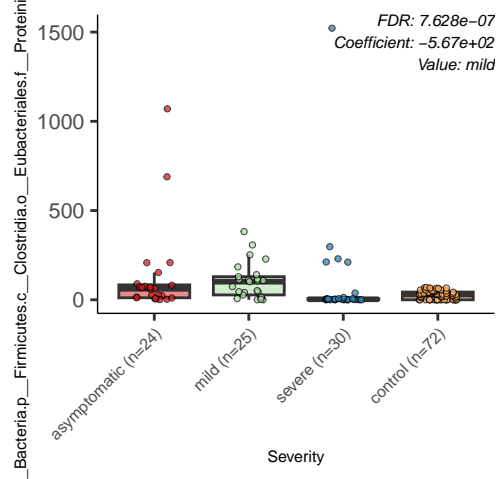


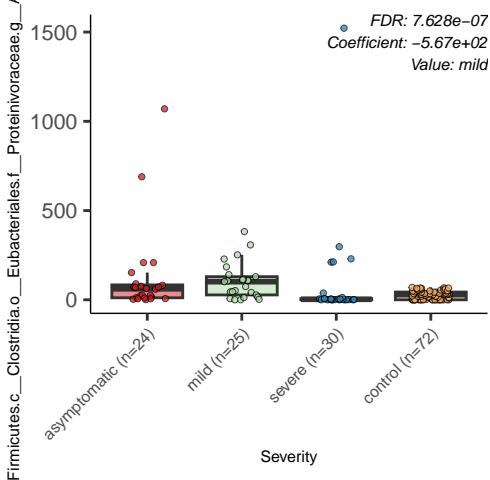


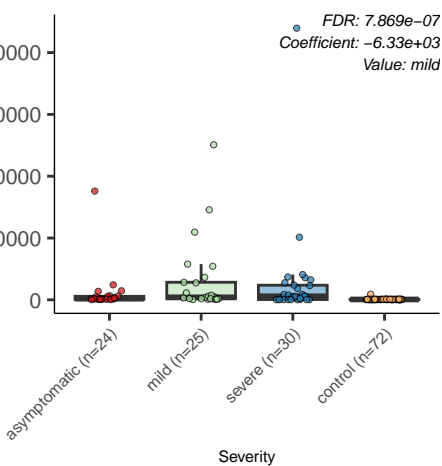


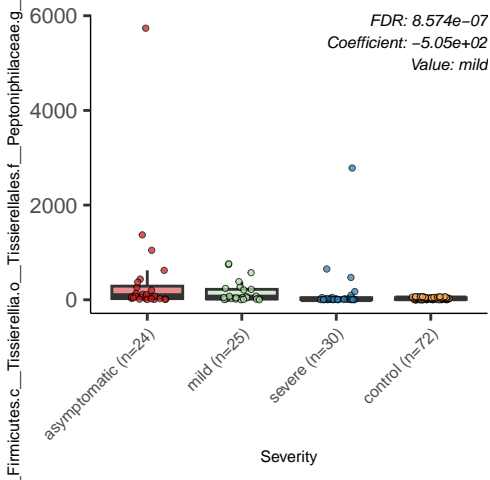




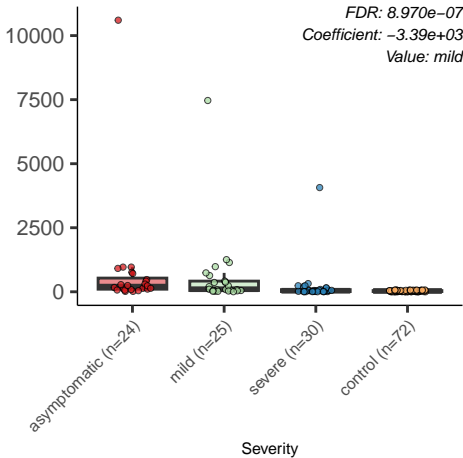


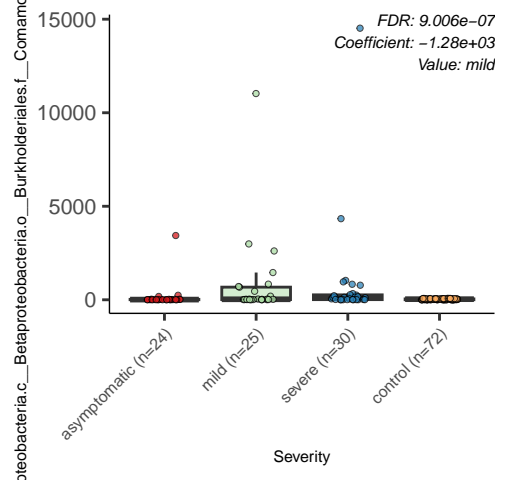




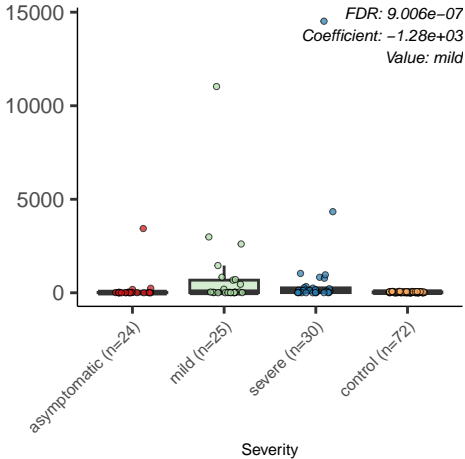


d_Bacteria.p_Cyanobacteria.o_Pseudanabaenales.f_Lep

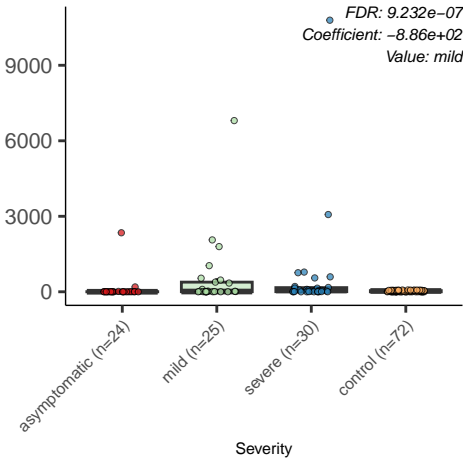




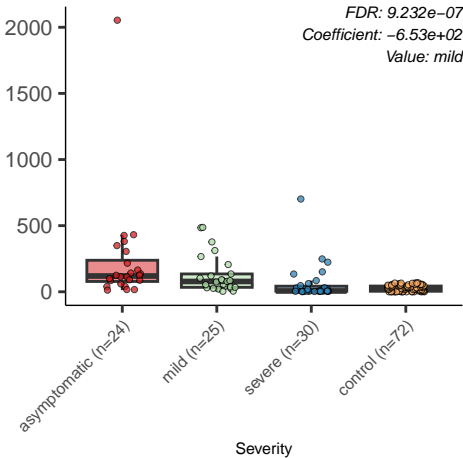
taproteobacteria.o__Burkholderiales.f__Comamonadaceae.g__Can

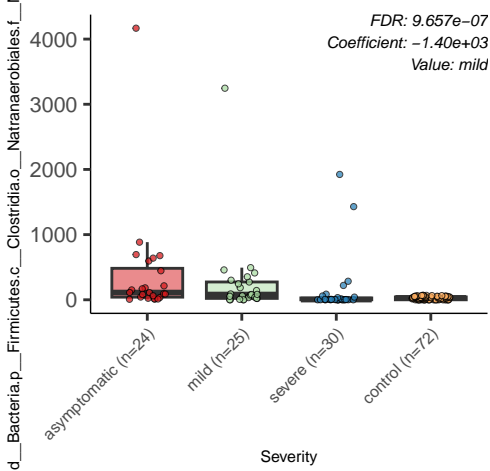


acteria.c__Betaproteobacteria.o__Burkholderiales.f__Alcaligenaceae

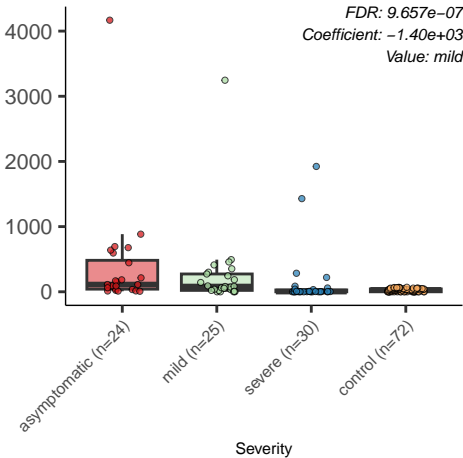


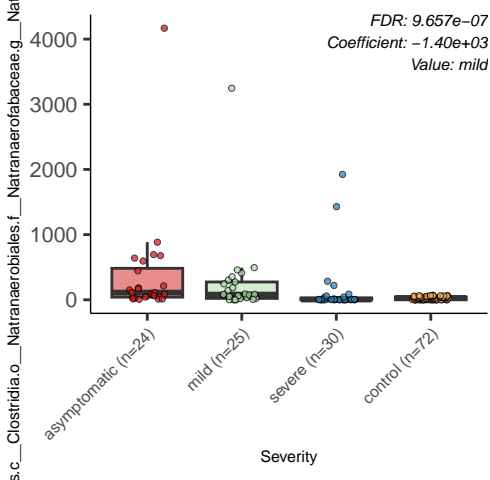
d_Bacteria.p_Firmicutes.c_Tissierella.g_Ezakiella.s_Eza



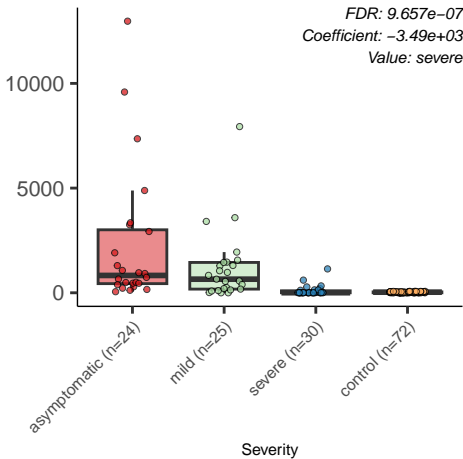


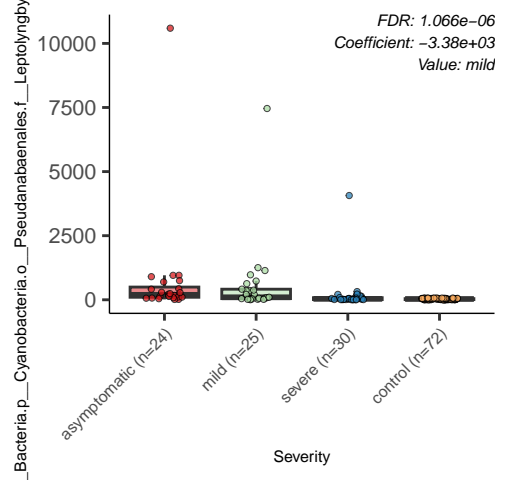
eria.p_Firmicutes.c_Clostridia.o_Natranaerobiales.f_Natranaer



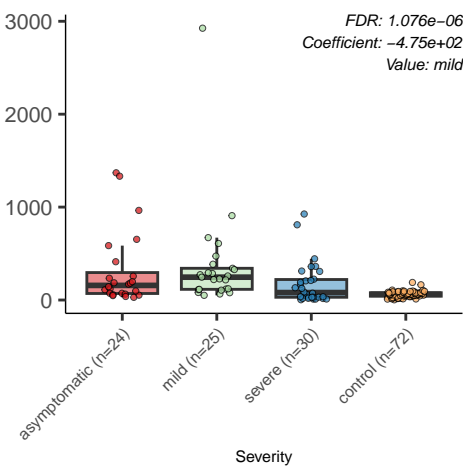


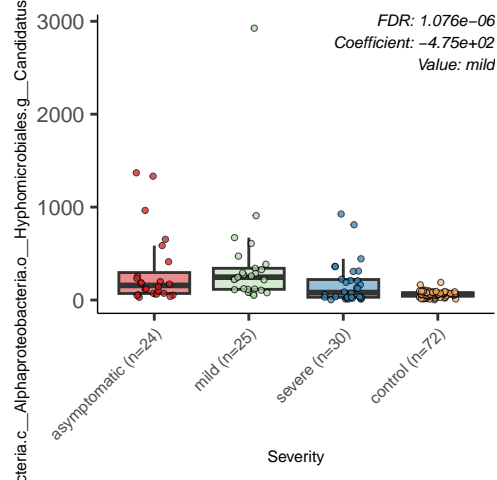
micutes.c_Bacilli.o_Lactobacillales.f_Streptococcaceae.g_Strep



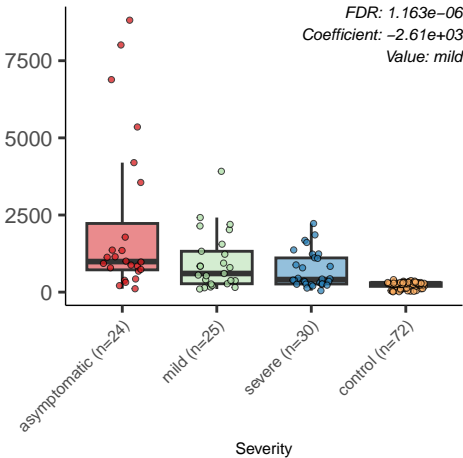


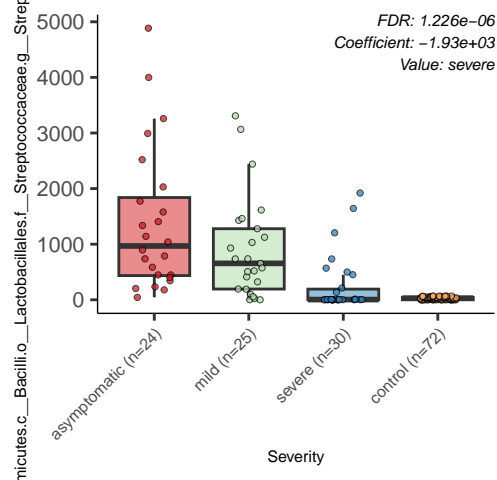
teria.p__Proteobacteria.c__Alphaproteobacteria.o__Hyphomicrobia



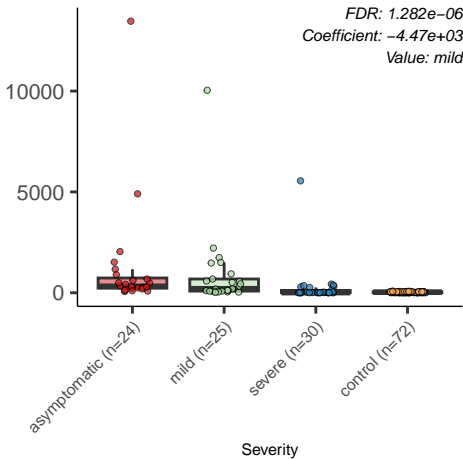


teria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingomonad



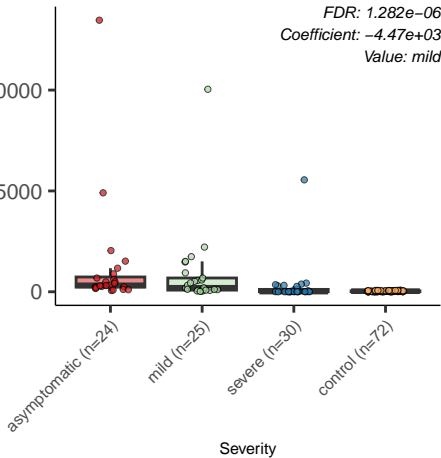


d_Bacteria.p__Planctomycetes.c__Planctomycetia.o__Plan



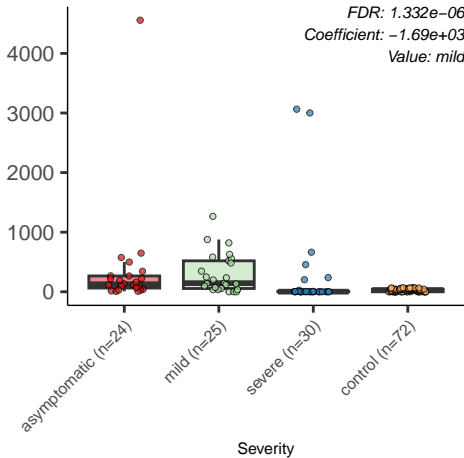
Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetia

FDR: 1.282e-06
Coefficient: -4.47e+03
Value: mild



Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g

FDR: 1.332e-06
Coefficient: -1.69e+03
Value: mild



d_Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia

7500
5000
2500
0

FDR: 1.382×10^{-6}
Coefficient: -8.12×10^2
Value: mild

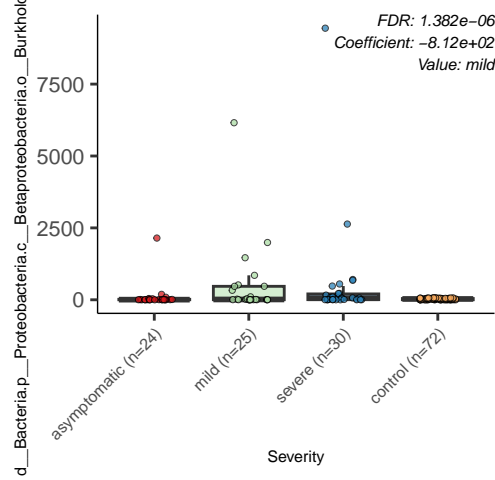
asymptomatic (n=24)

mild (n=25)

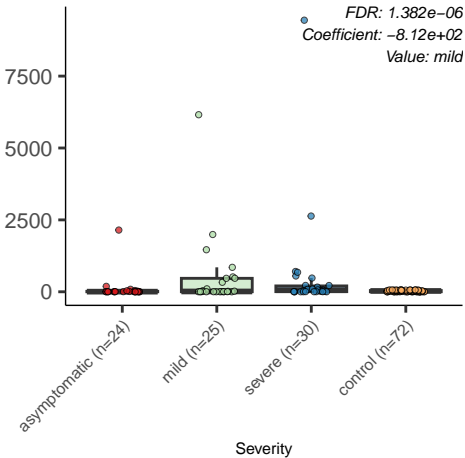
severe (n=30)

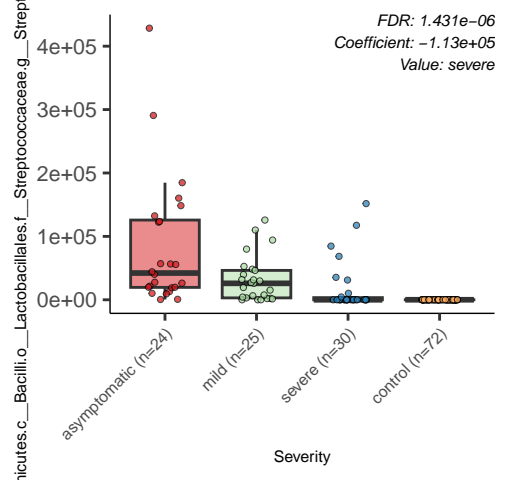
control (n=72)

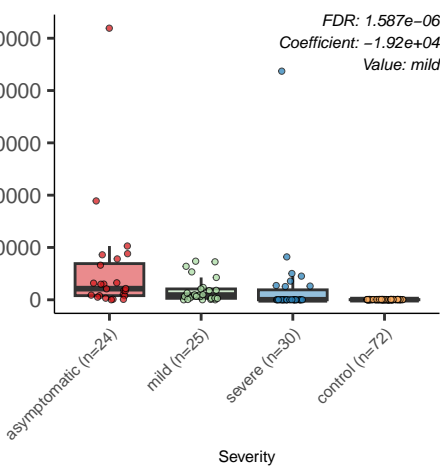
Severity



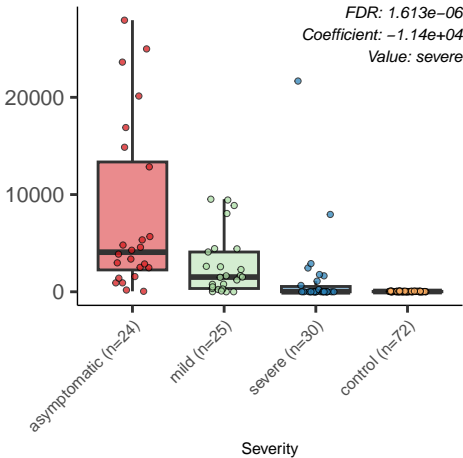
p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.g__ld

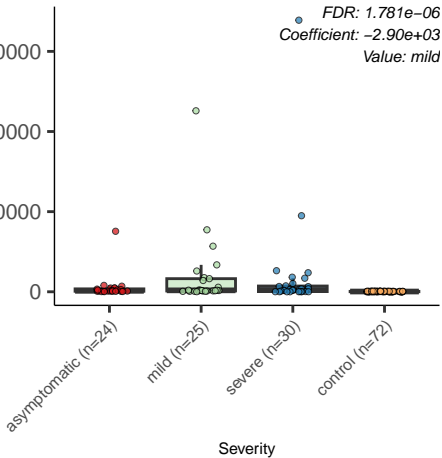




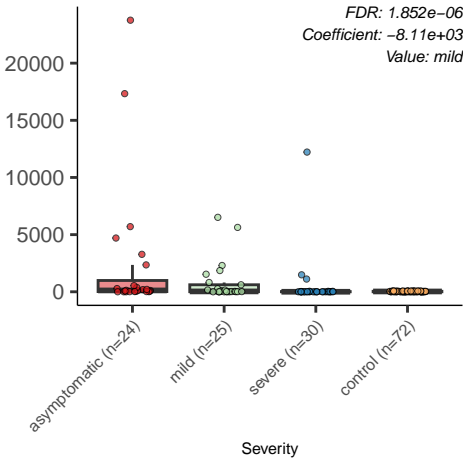


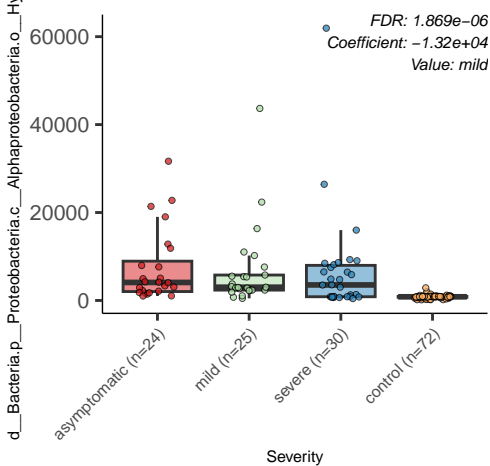
firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Str



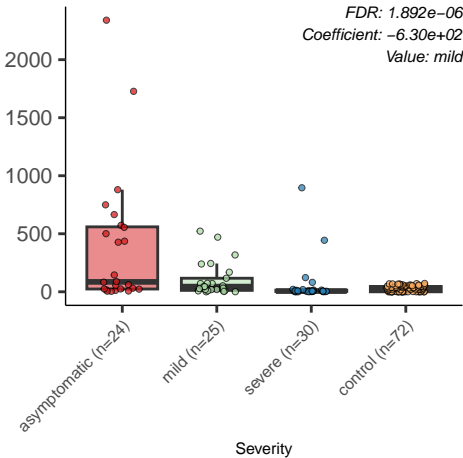


idetes.c__Flavobacteriia.o__Flavobacteriales.f__Flavobacteriaceae.



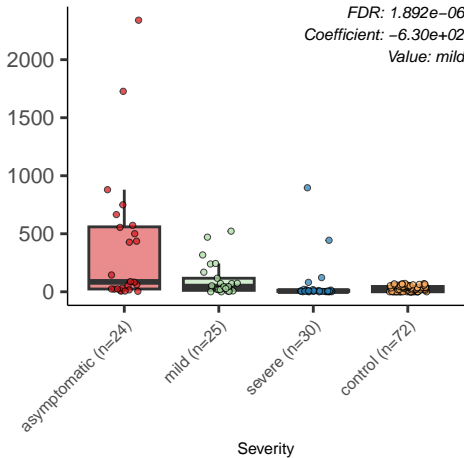


ia.p__Verrucomicrobia.c__Opitutae.o__Puniceicoccales.f__Puniceib



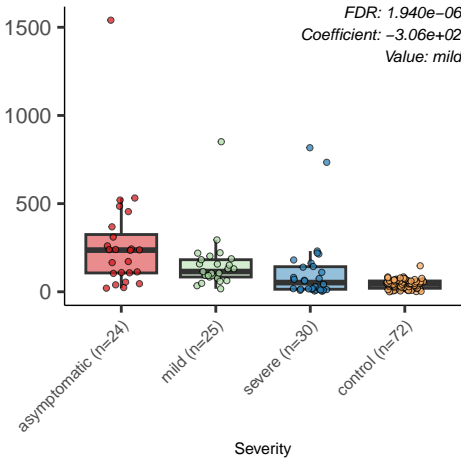
crobia.c__Opitutae.o__Puniceicoccales.f__Puniceicoccaceae.g__C

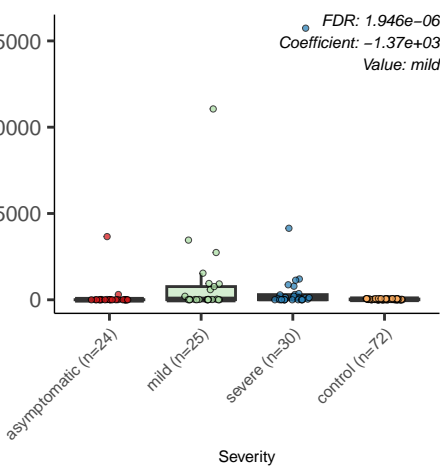
FDR: 1.892e-06
Coefficient: -6.30e+02
Value: mild

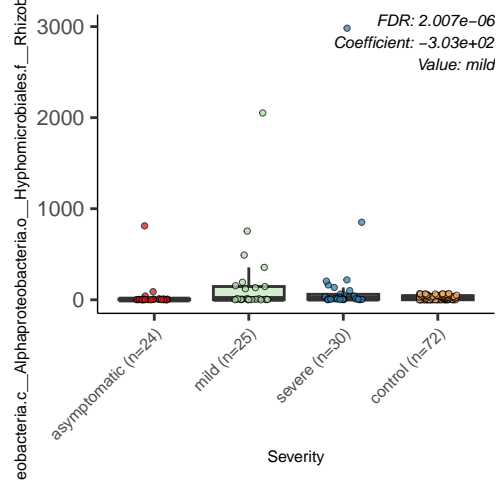


l_Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts

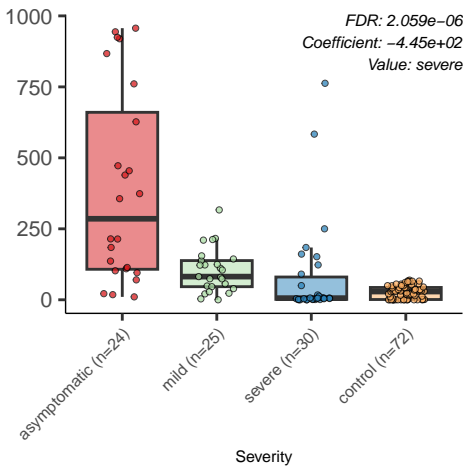
FDR: $1.940e-06$
Coefficient: $-3.06e+02$
Value: mild



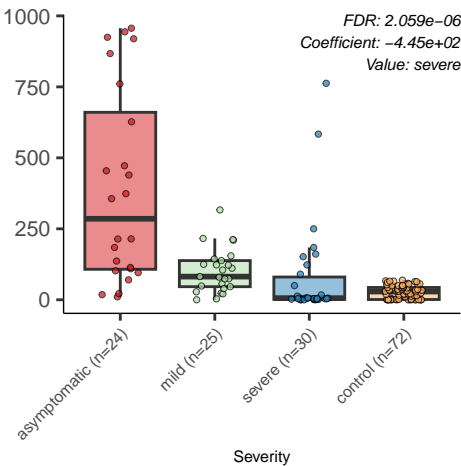


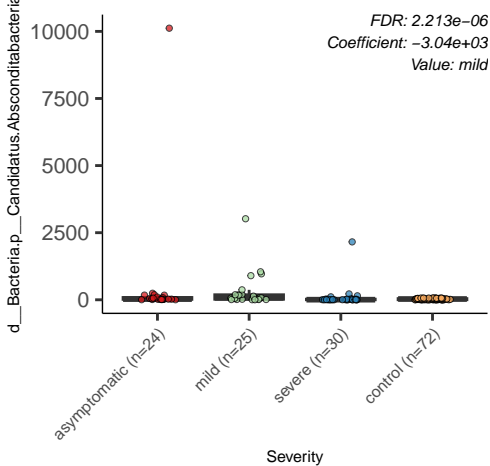


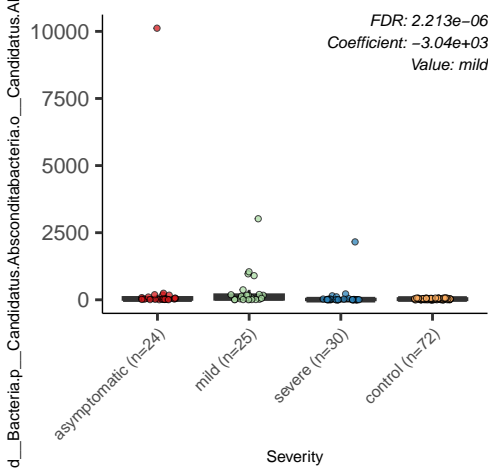
d_Bacteria.p_Bacteroidetes.o_Bacteroidetes.Order.II.L...



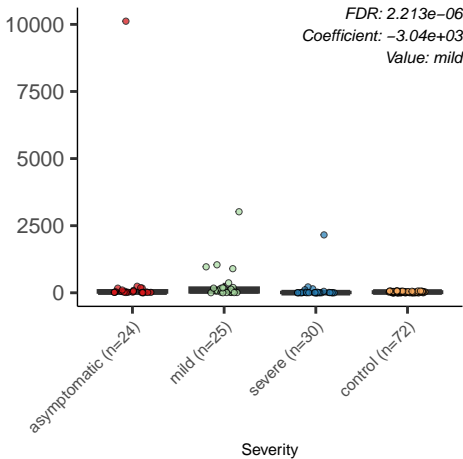
Bacteria.p_Bacteroidetes.o_Bacteroidetes.Order.II..Incertae.sed

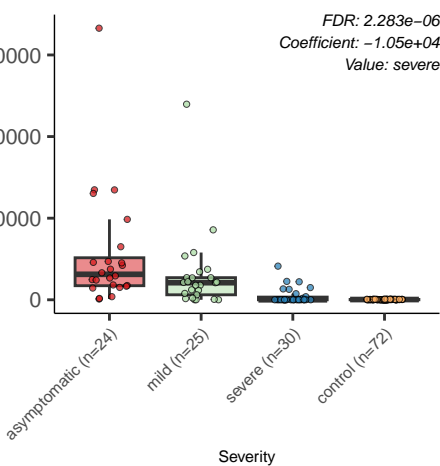




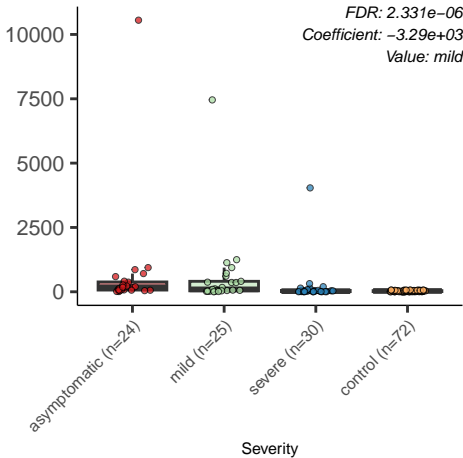


onditabacteria.o__Candidatus.Absconditabacterales.f__Candidatus.

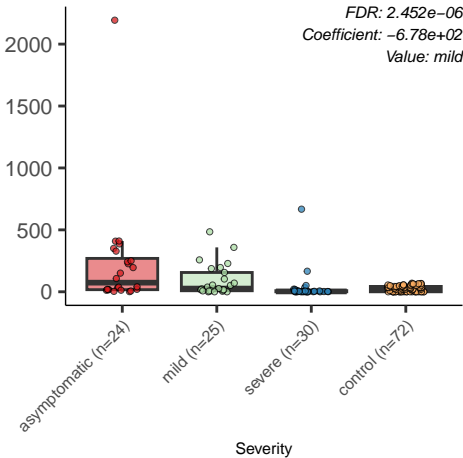




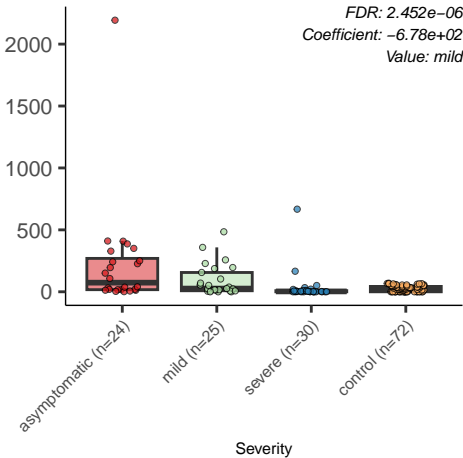
Cyanobacteria.o_Pseudanabaenales.f_Leptolyngbyaceae.g_L

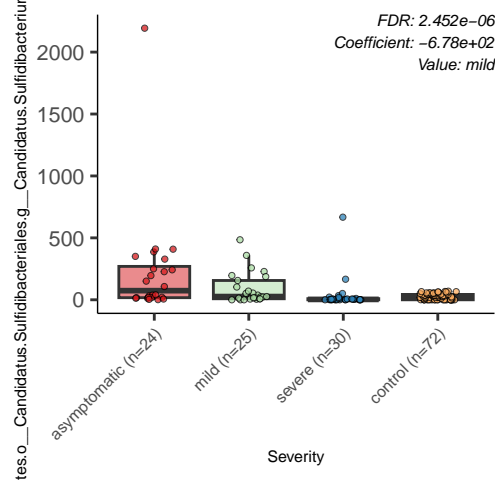


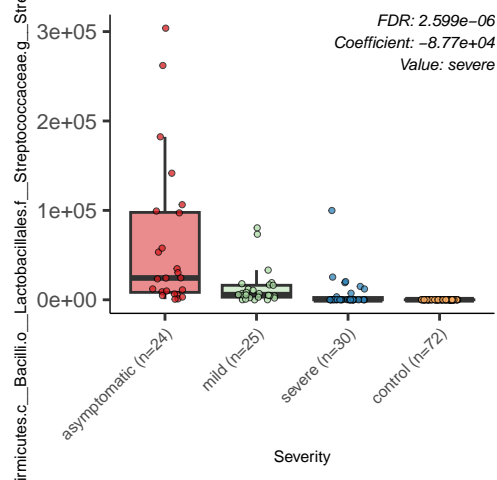
d_Bacteria.p_Bacteroidetes.o_Candidatus.Sulfidib

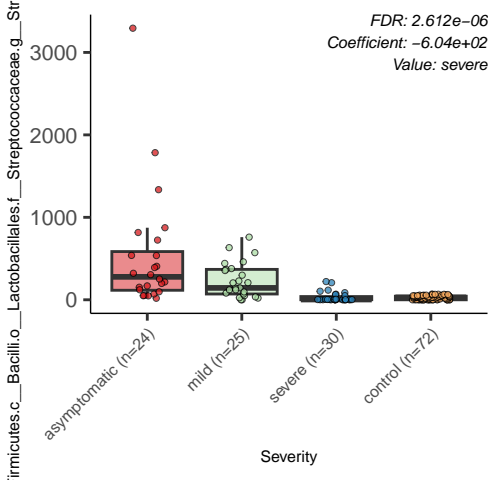


Bacteria.p__Bacteroidetes.o__Candidatus.Sulfidibacteriales.g__Ca

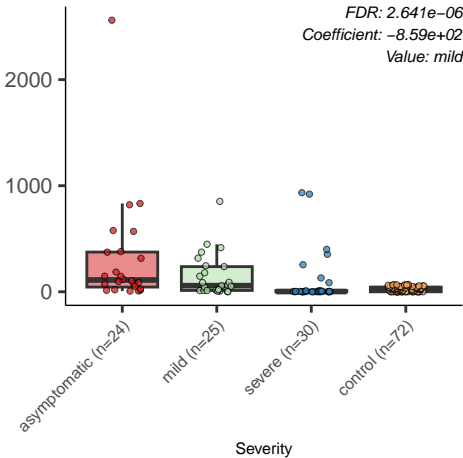




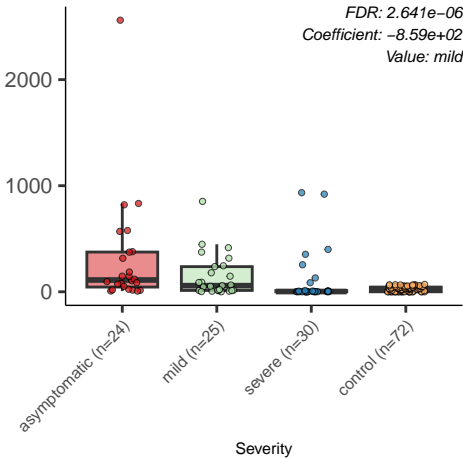




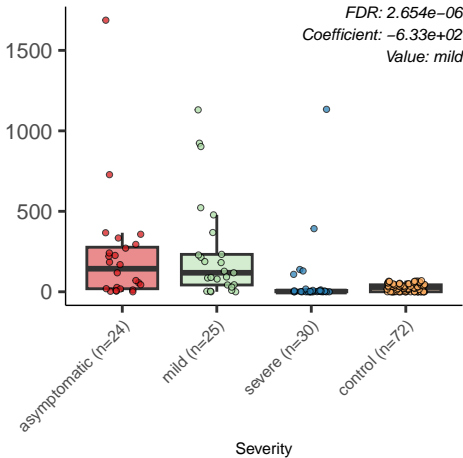
Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Oscillosp

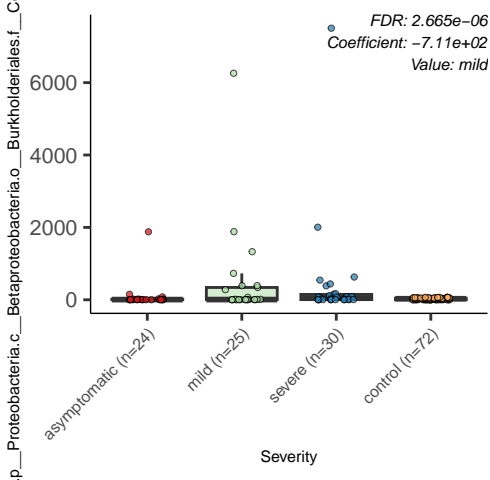


micutes.c__Clostridia.o__Eubacteriales.f__Oscillospiraceae.g__Ma



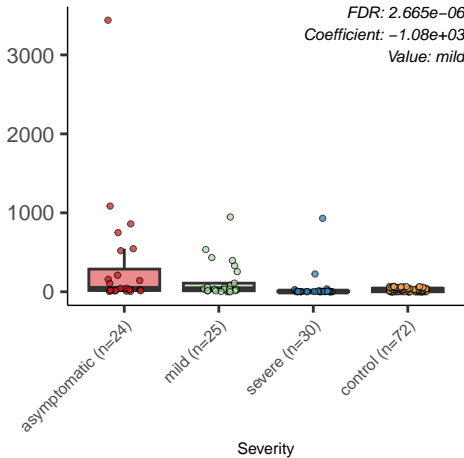
cutus.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__Anaer

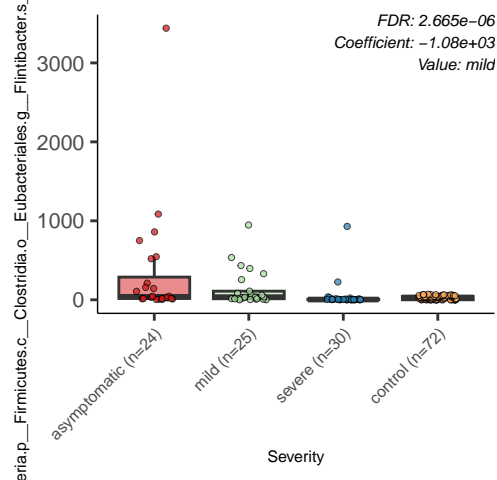




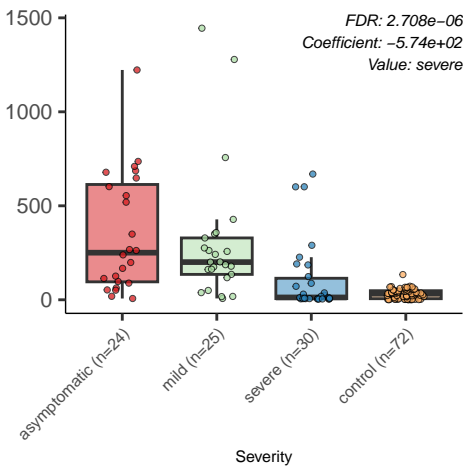
d_Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.g

FDR: 2.665e-06
Coefficient: -1.08e+03
Value: mild



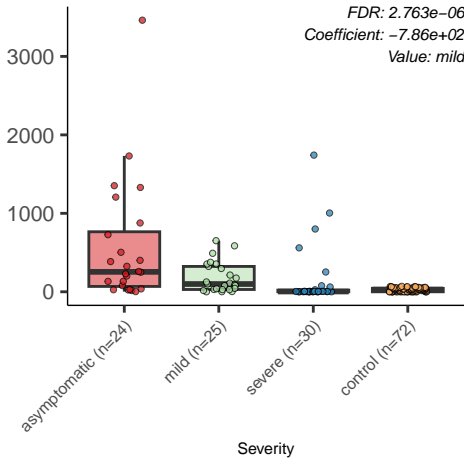


Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Neisseriales



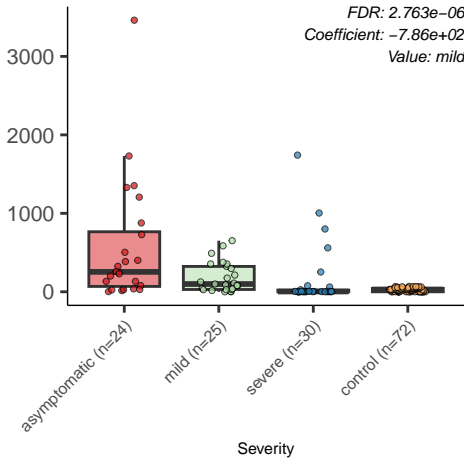
_Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnos

FDR: $2.763\text{e-}06$
Coefficient: $-7.86\text{e}+02$
Value: mild

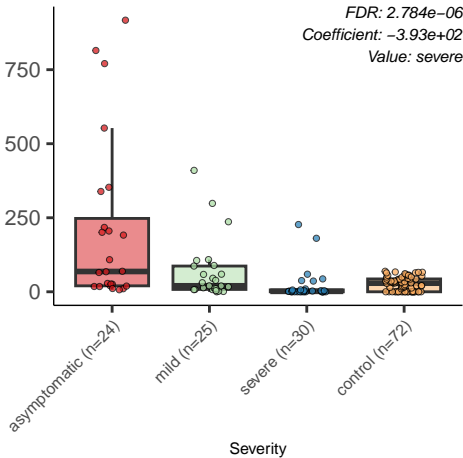


Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g

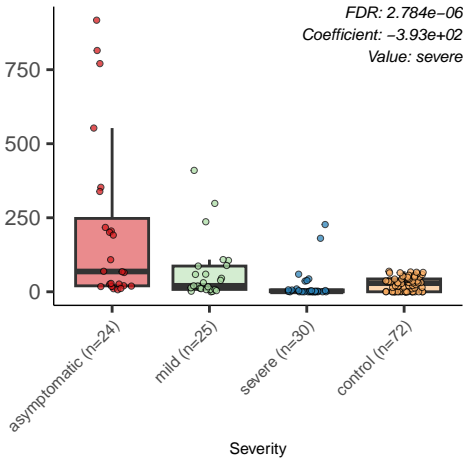
FDR: 2.763×10^{-6}
Coefficient: -7.86×10^2
Value: mild

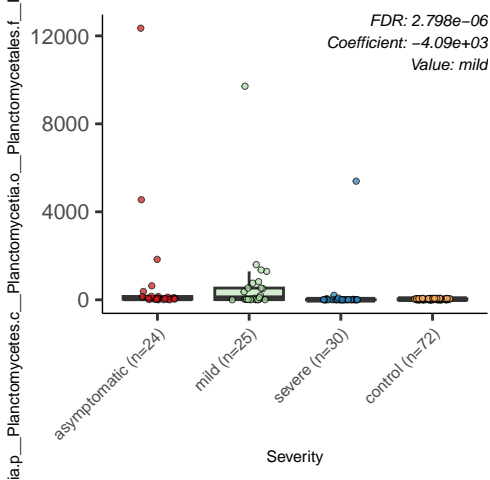


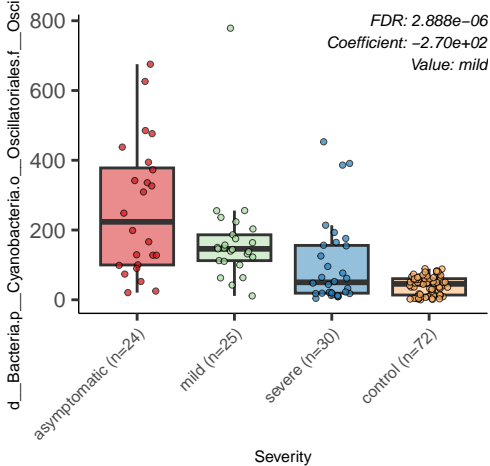
Tenericutes.c_Mollicutes.o_Mycoplasmales.f_Mycoplasma



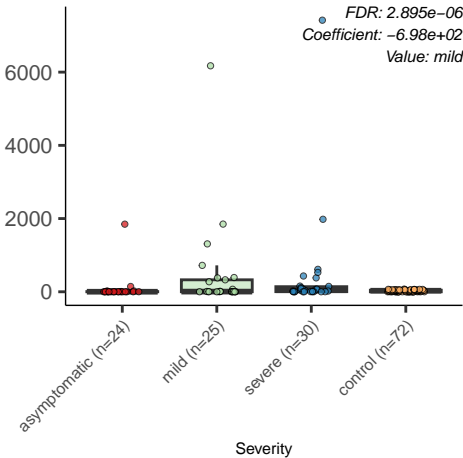
cutes.o__Mycoplasmales.f__Mycoplasmataceae.g__Candidatus.H





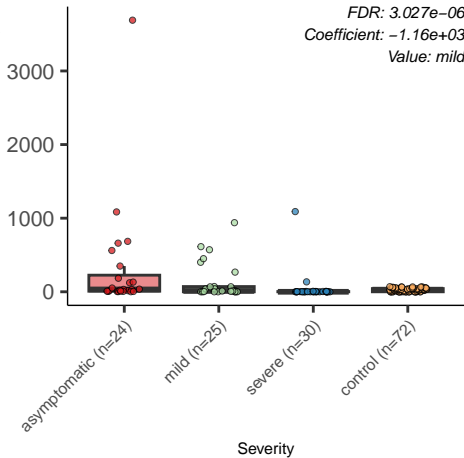


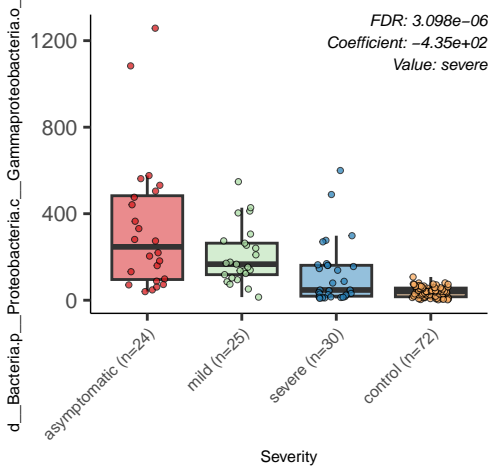
c__Betaproteobacteria.o__Burkholderiales.f__Comamonadaceae.g

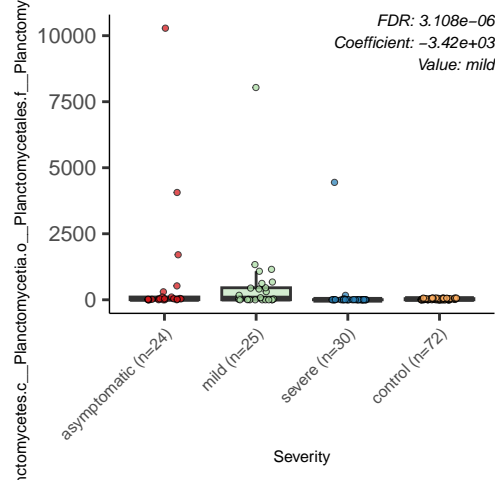


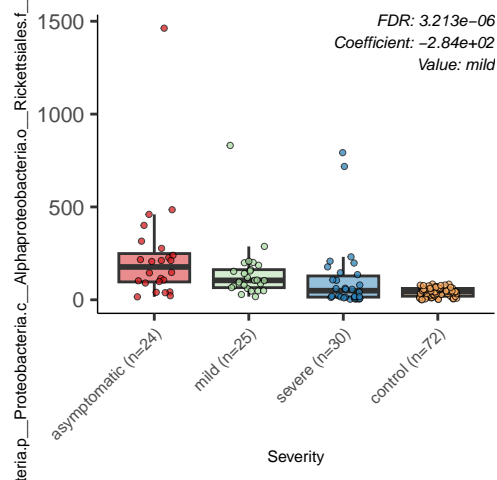
Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobacillaceae.g__La

FDR: 3.027×10^{-6}
Coefficient: -1.16×10^3
Value: mild

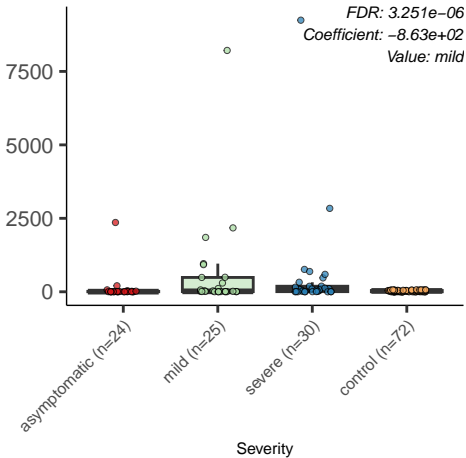




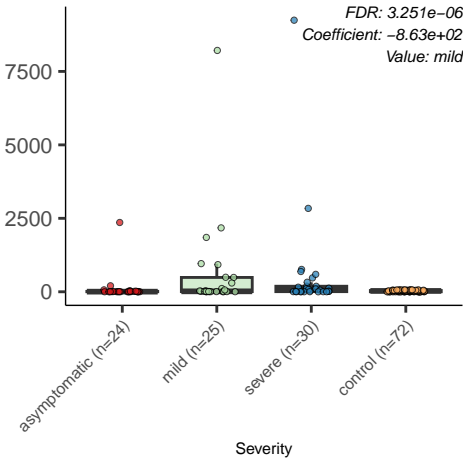




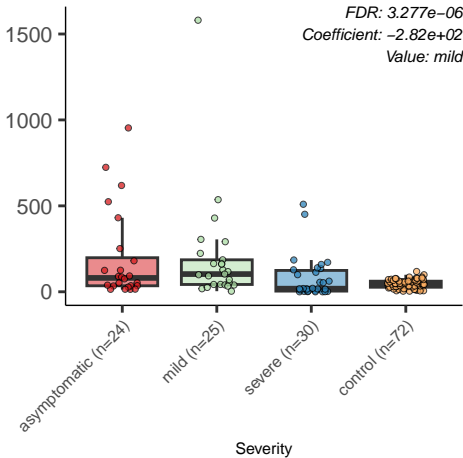
d_Bacteria.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderia



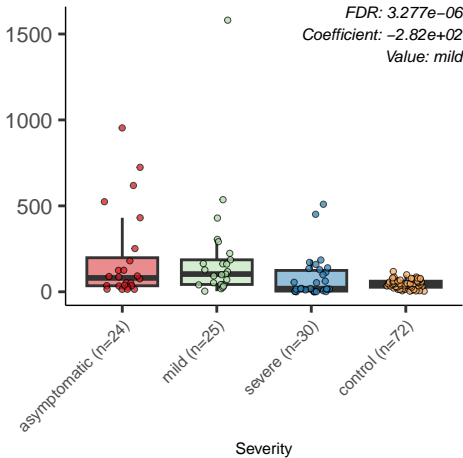
Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.g__Aqu

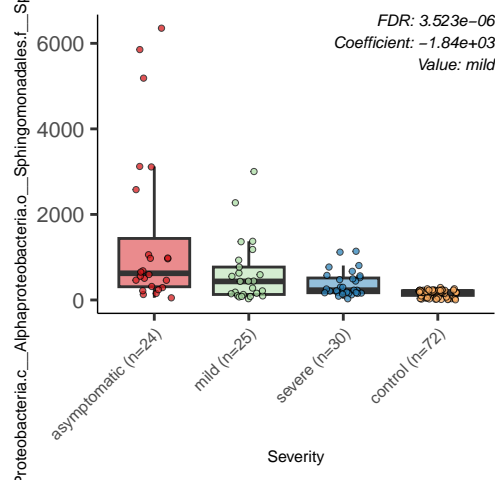


Flavobacteriales.f_Fla
Bacteroidetes.c_Flavobacteriia.o_Flavobacteriales.f_Fla
Bacteroidetes.c_Flavobacteriia.o_Flavobacteriales.f_Fla

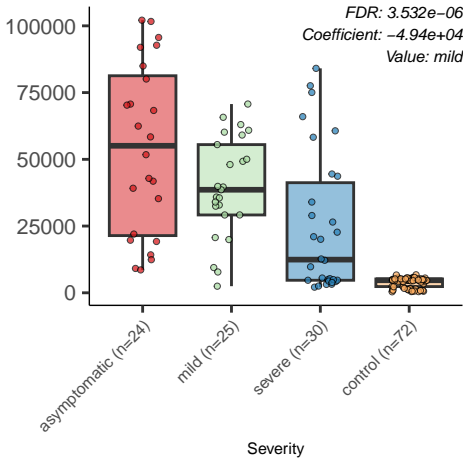


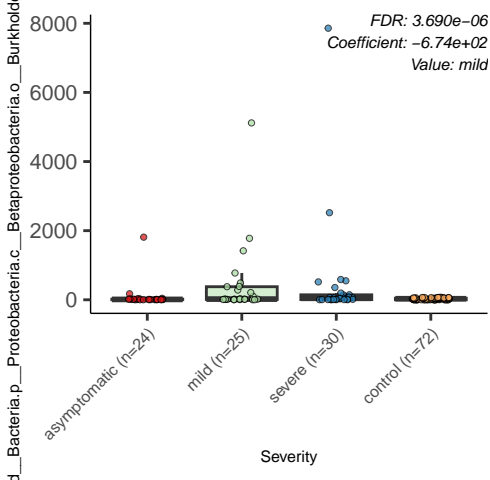
Bacteroidetes.c_Flavobacteriia.o_Flavobacteriales.f_Flavobacter



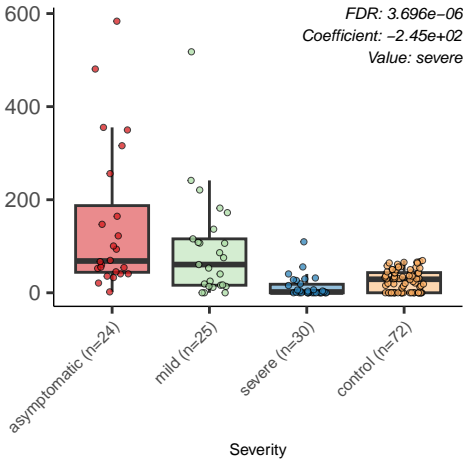


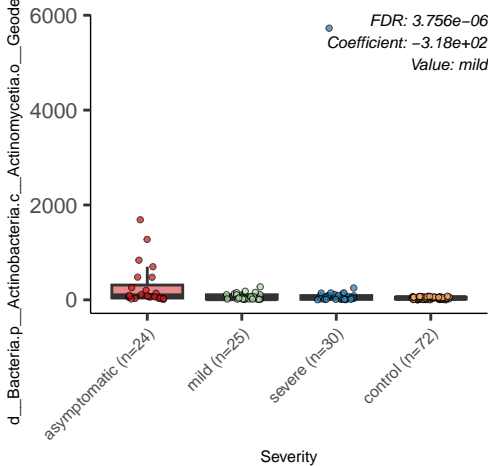
d__Bacteria.p__Proteobacteria.c__Alphaproteobac

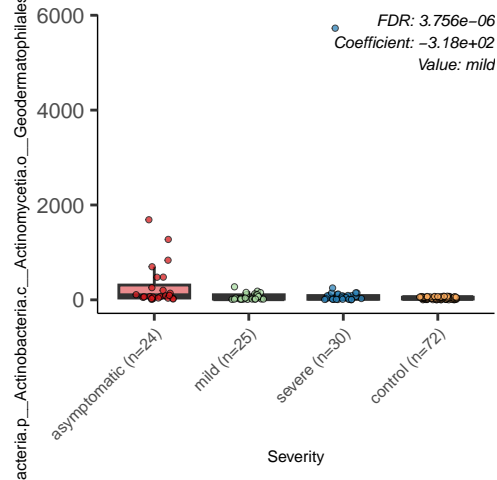


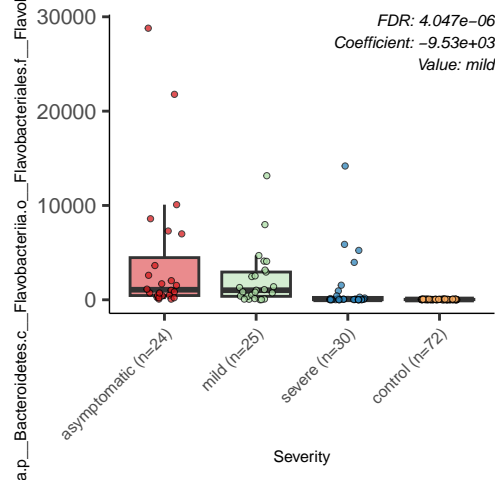


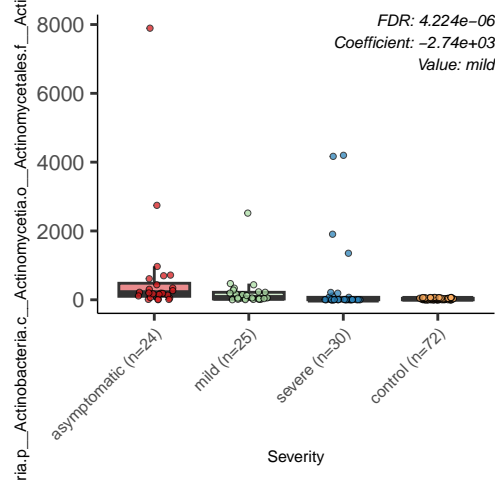
micutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Strep

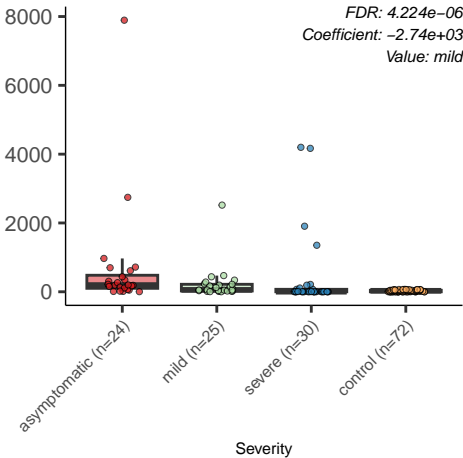




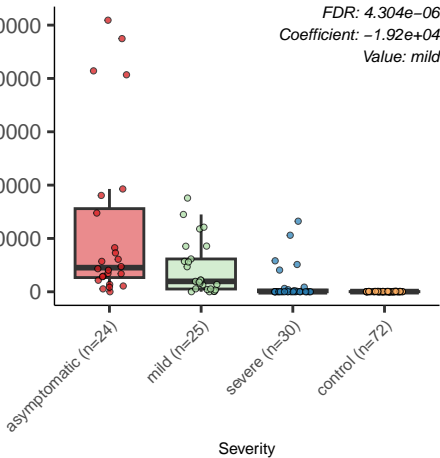




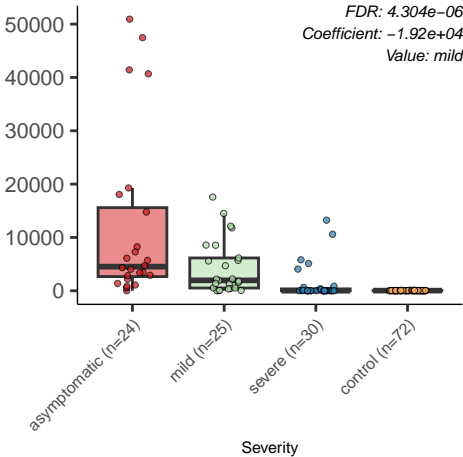


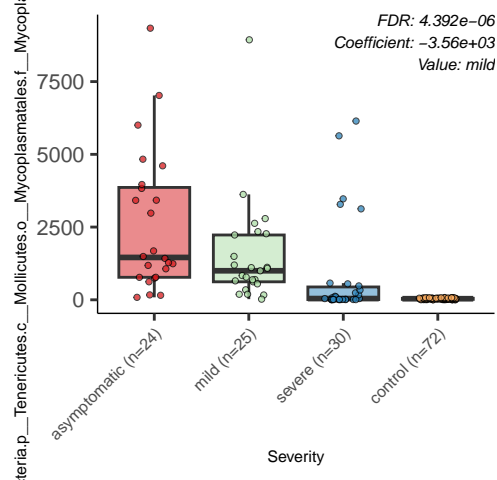


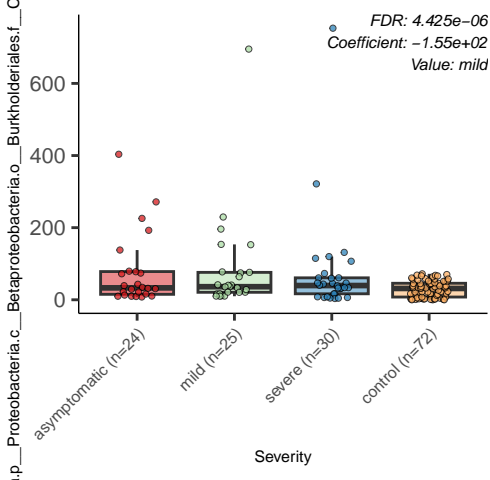
Bacteria.p__Firmicutes.c__Tissierellia.o__Tissierellales.f__Peptonip



Firmicutes.c__Tissierellia.o__Tissierellales.f__Peptoniphilaceae.g







d_Bacteria.p_Cyanobacteria.o_Pseudanabaen

FDR: $4.500e-06$
Coefficient: $-3.80e+03$
Value: mild

10000

5000

0

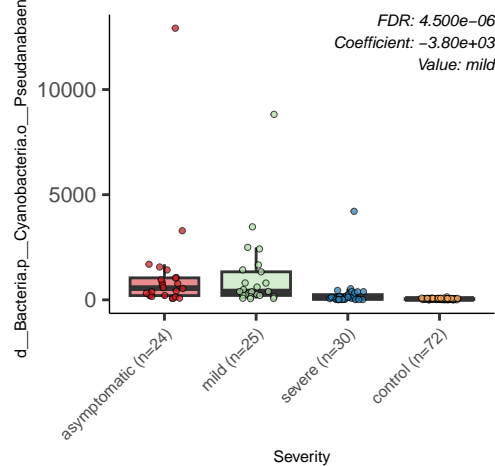
asymptomatic (n=24)

mild (n=25)

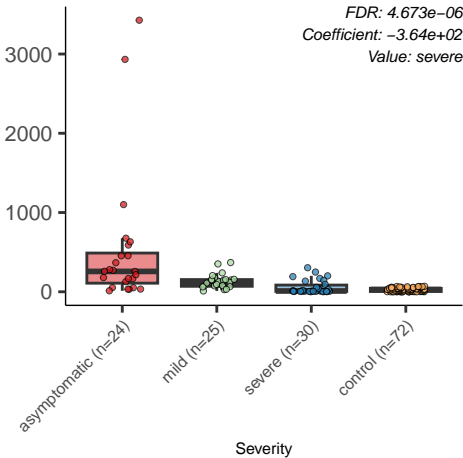
severe (n=30)

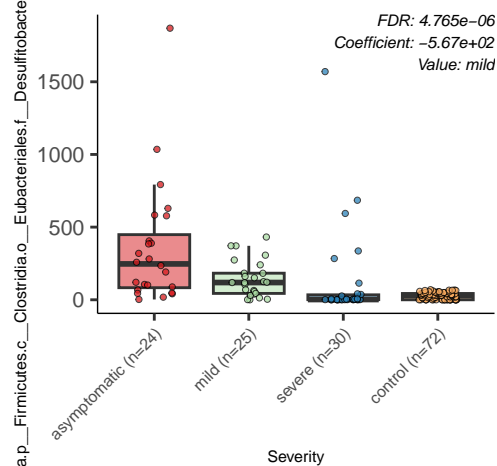
control (n=72)

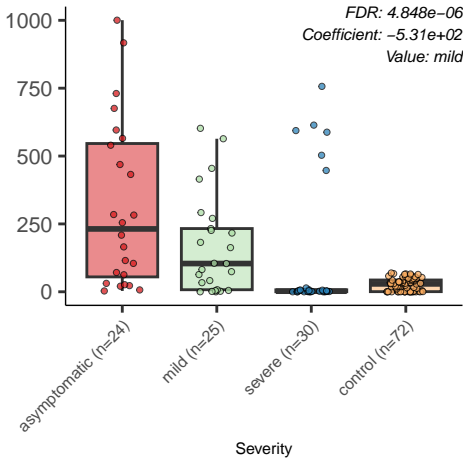
Severity



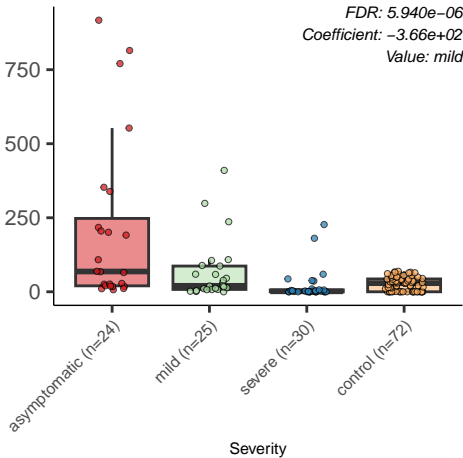
cteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfovibrion



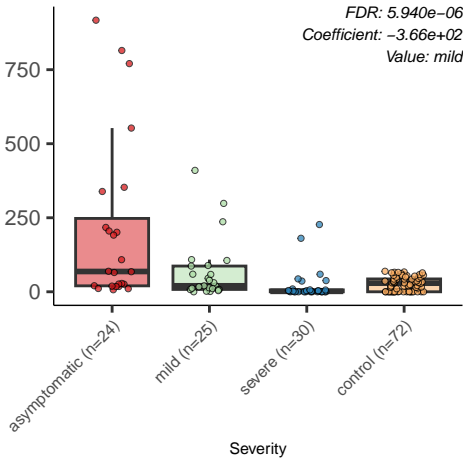




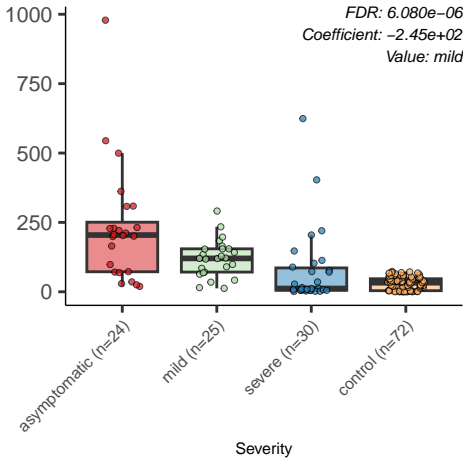
Tenericutes.c_Mollicutes.o_Mycoplasmales.f_Mycoplasma

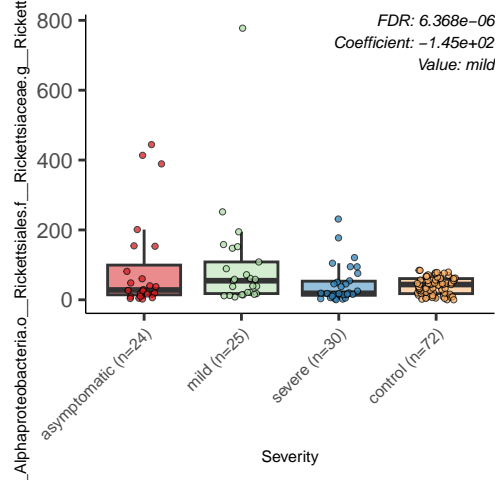


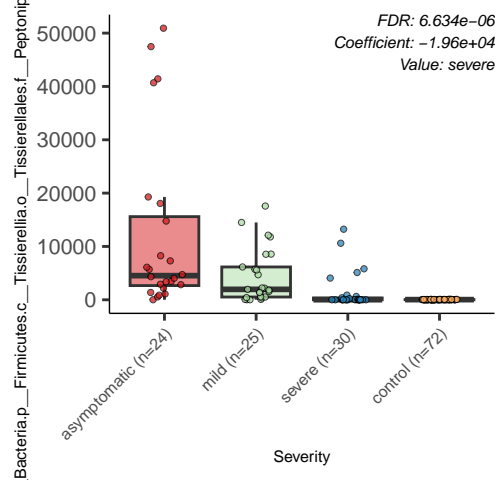
cutes.o__Mycoplasmales.f__Mycoplasmataceae.g__Candidatus.H

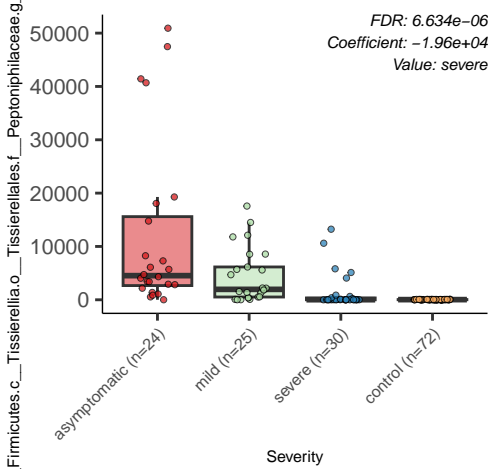


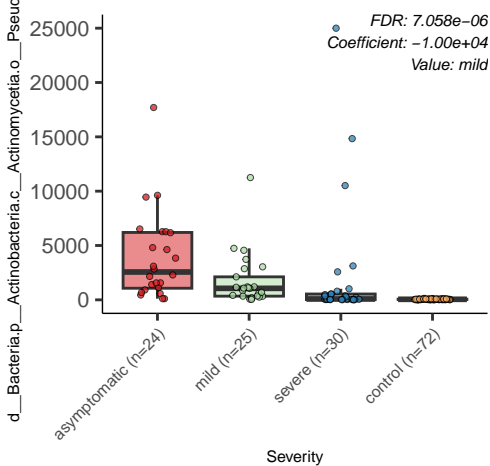
Firmicutes.c_Clostridia.o_Eubacteriales.f_Clostridiaceae.g_C

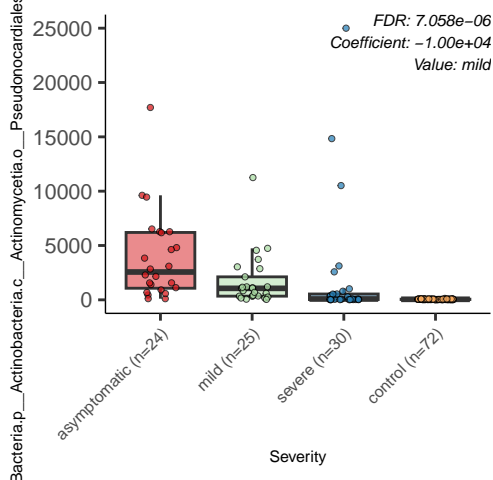


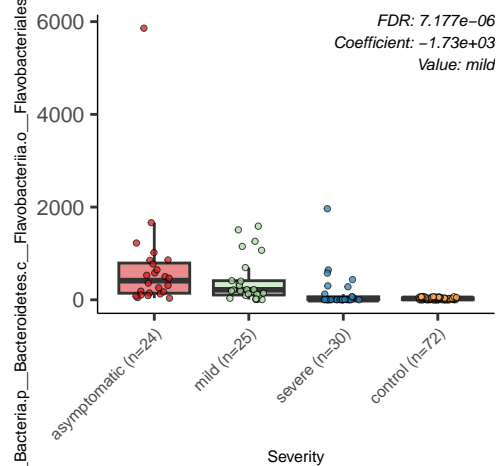




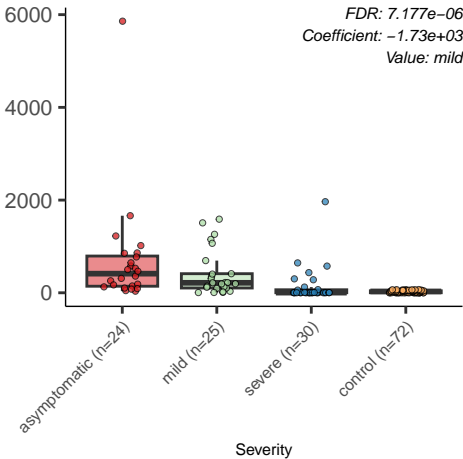


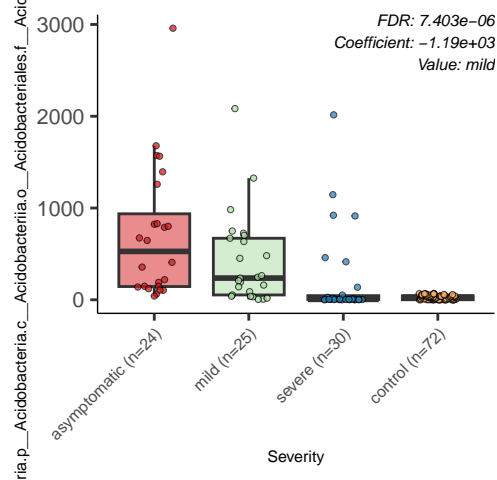




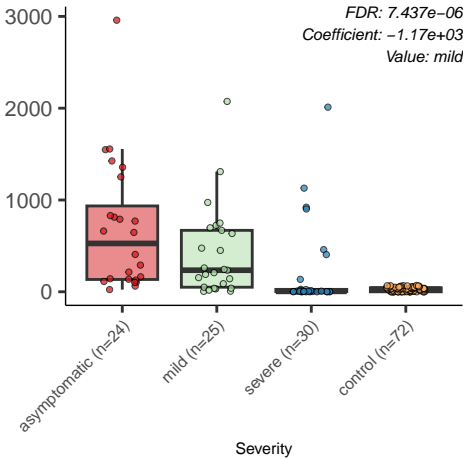


a.p._Bacteroidetes.c._Flavobacteriia.o._Flavobacteriales.f._Blatta

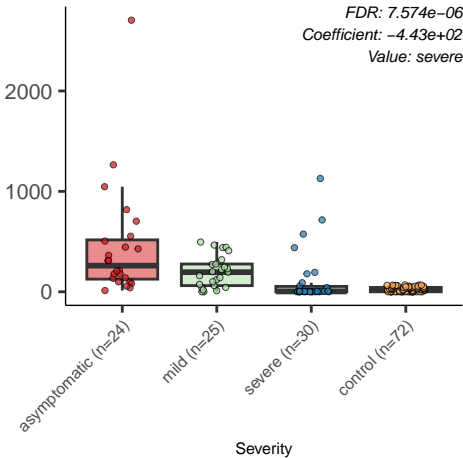




oacteria.c_Acidobacteriia.o_Acidobacteriales.f_Acidobacteriaceae

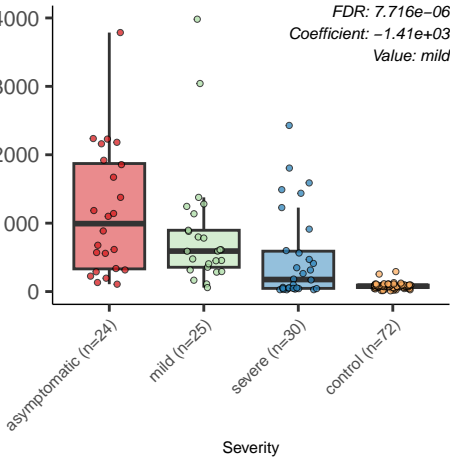


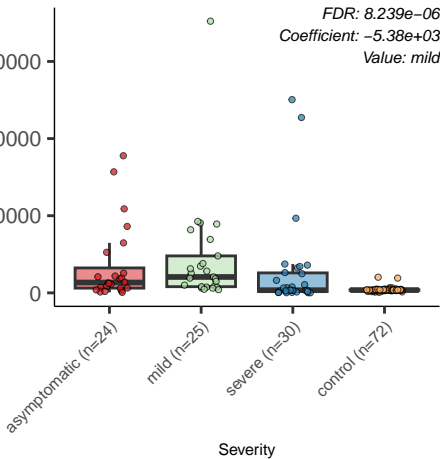
micutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Stre

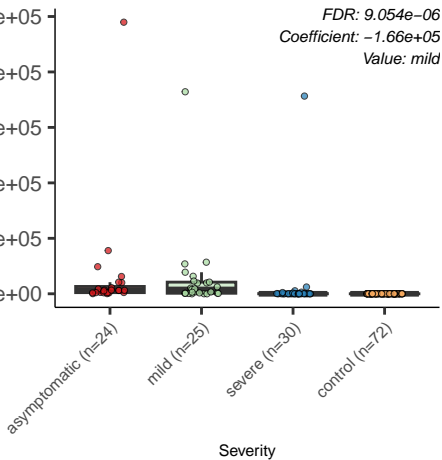


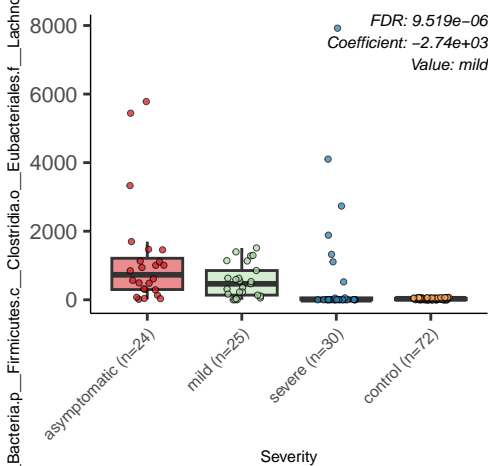
d__Bacteria.p__Cyanobacteria.o__Synechococceae

FDR: 7.716×10^{-6}
Coefficient: -1.41×10^3
Value: mild

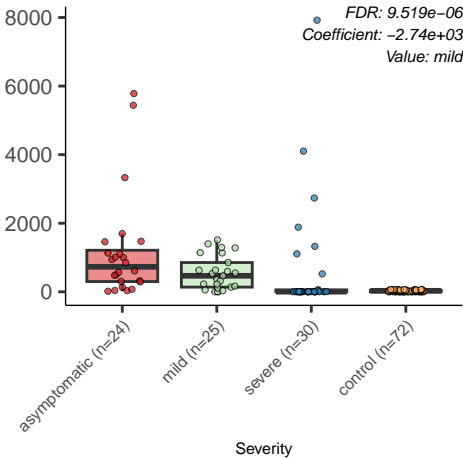


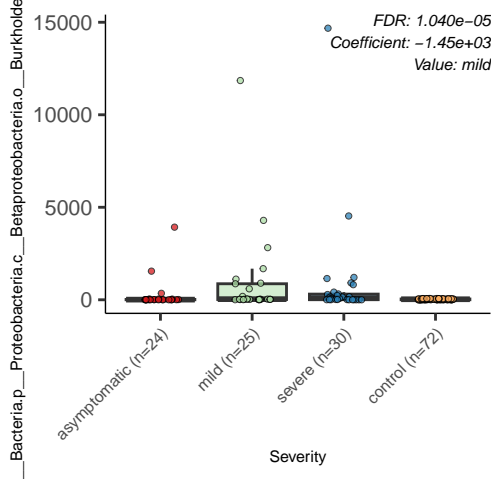


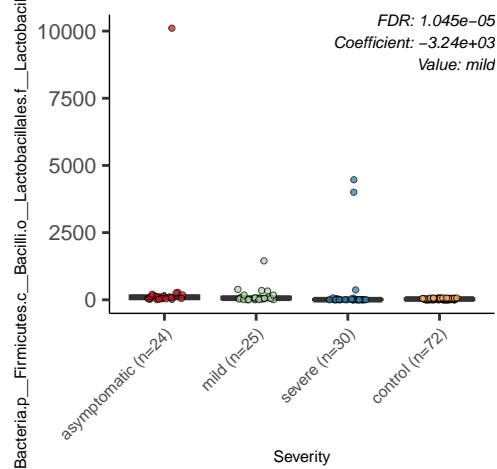


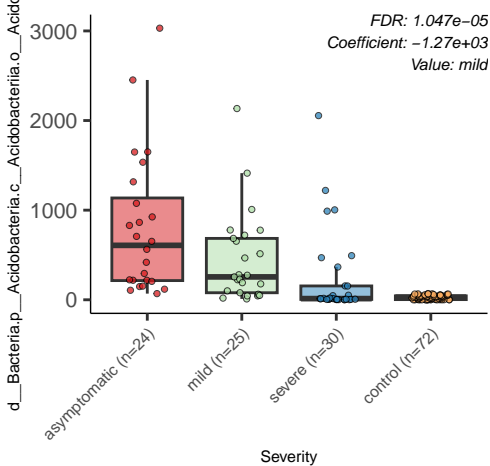


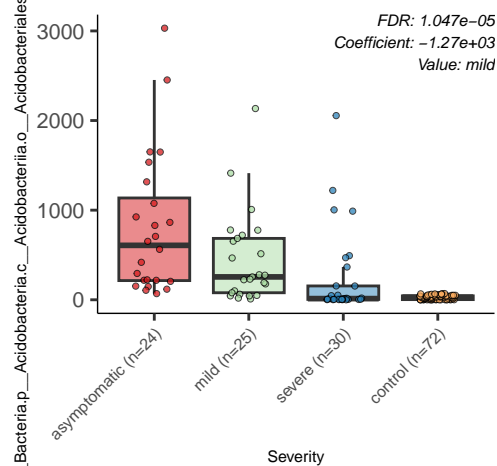
p_Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae

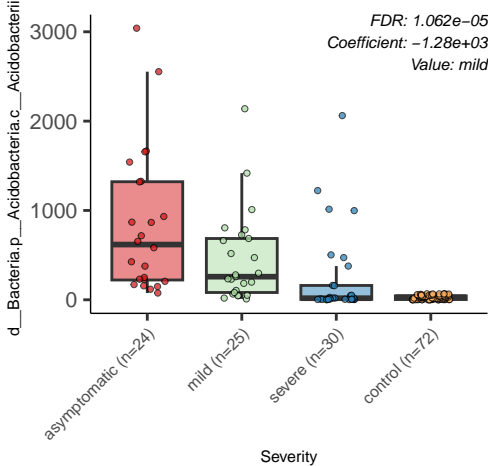


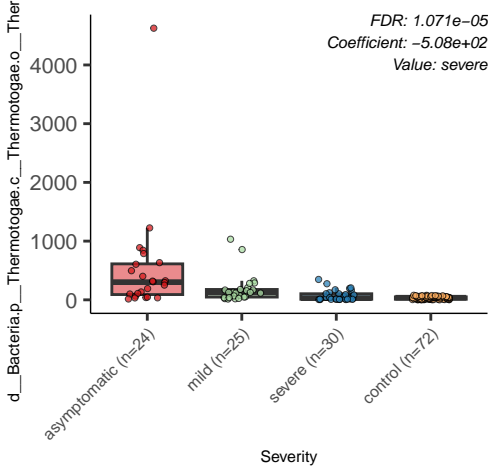




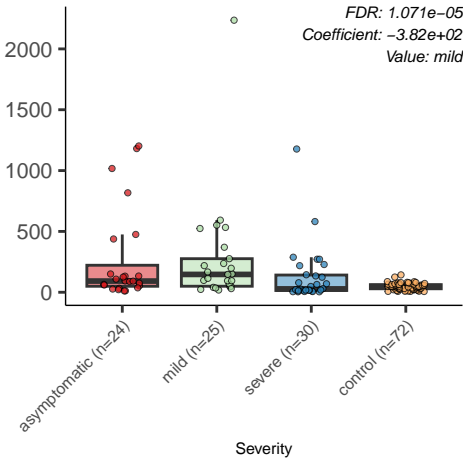


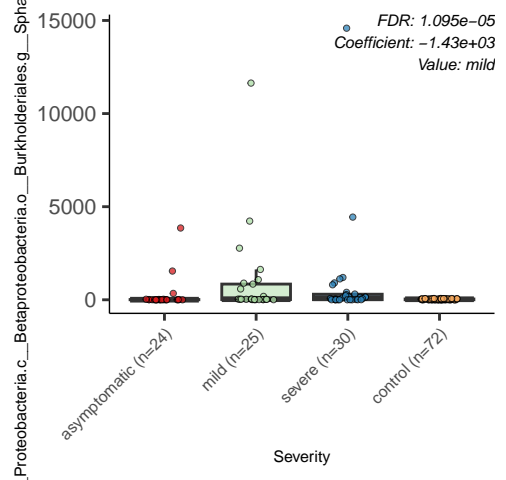




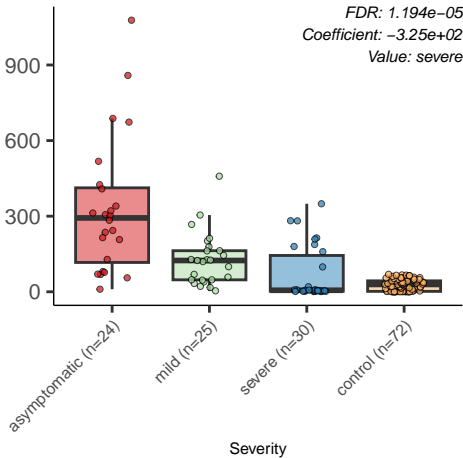


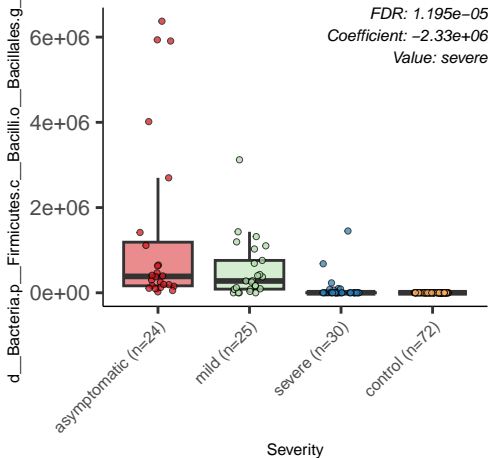
a.p._Proteobacteria.c._Alphaproteobacteria.o._Rickettsiales.f._An

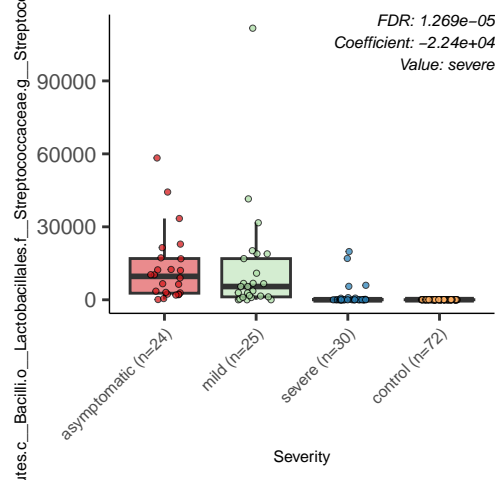




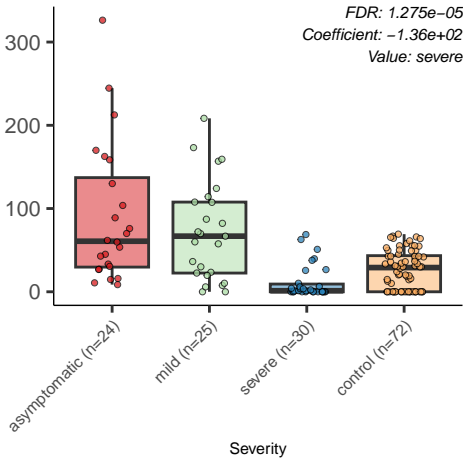
d_Bacteria.p_Firmicutes.c_Clostridia.o_Halanae



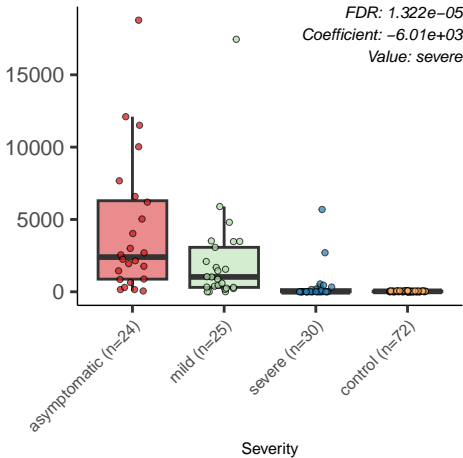




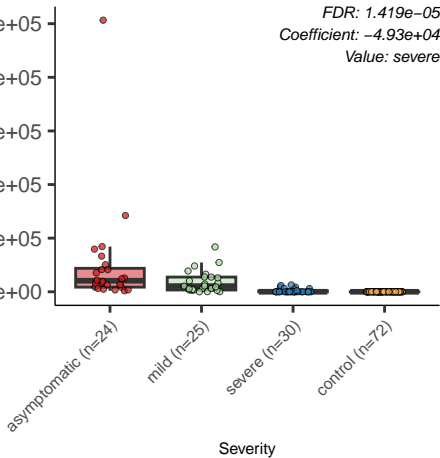
micutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Strep

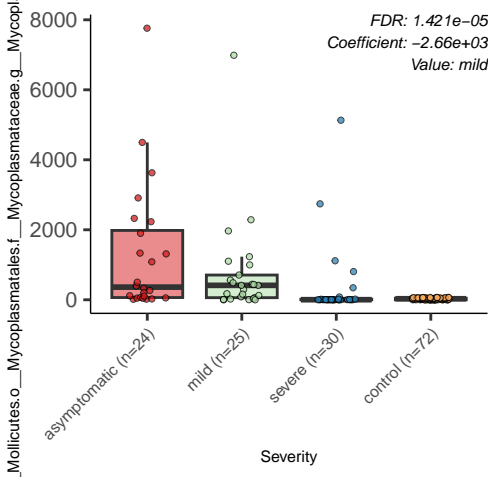


micutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Stre

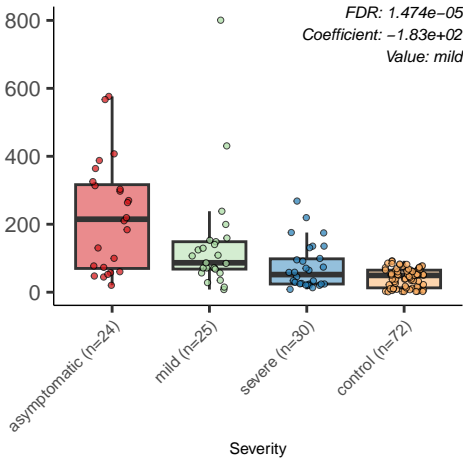


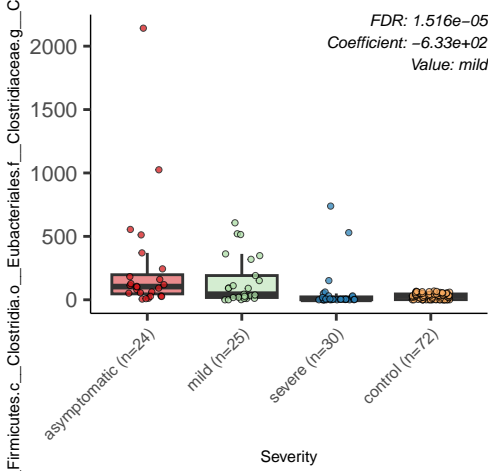
Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__S

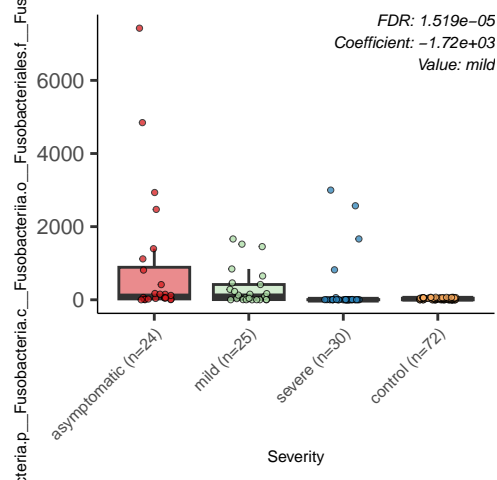




acteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodobacter

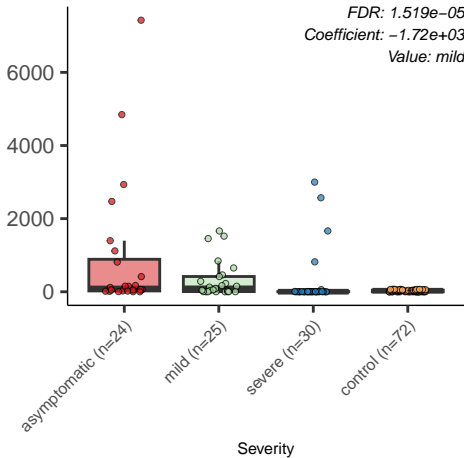




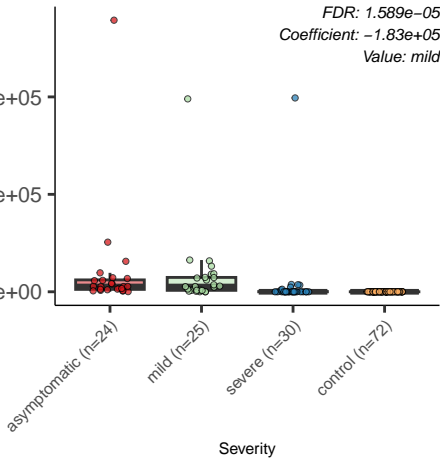


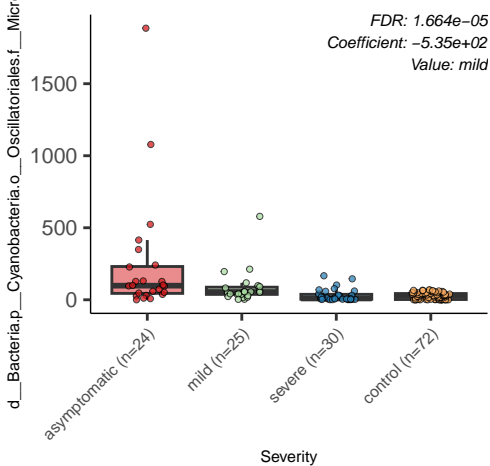
sobacteria.c__Fusobacteriia.o__Fusobacteriales.f__Fusobacteriaceae

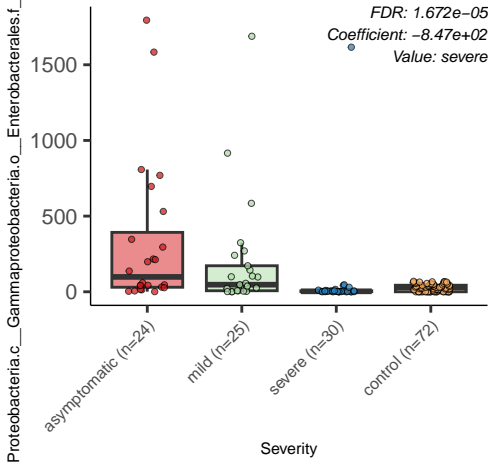
FDR: $1.519\text{e-}05$
Coefficient: $-1.72\text{e}+03$
Value: mild

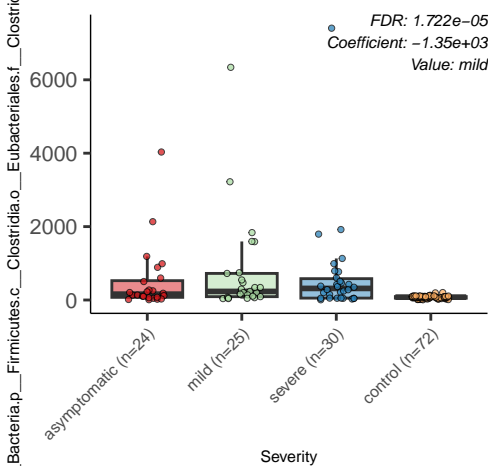


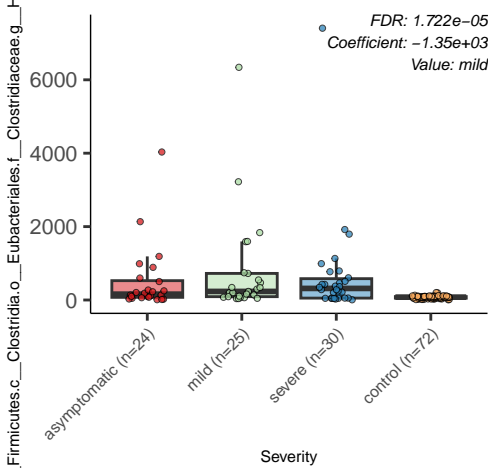
Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Tanr

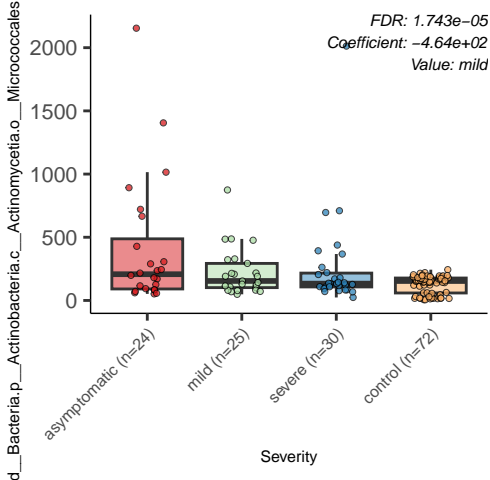




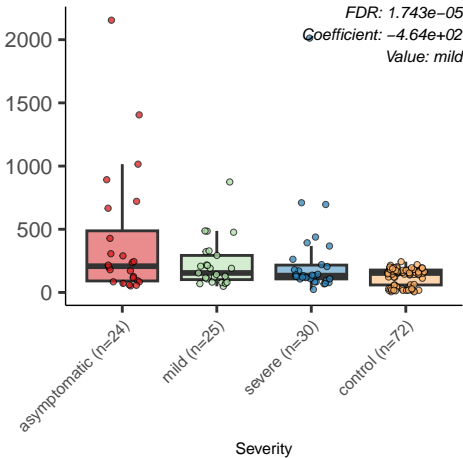


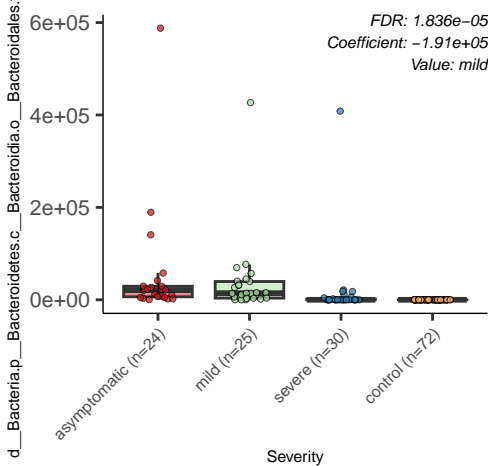


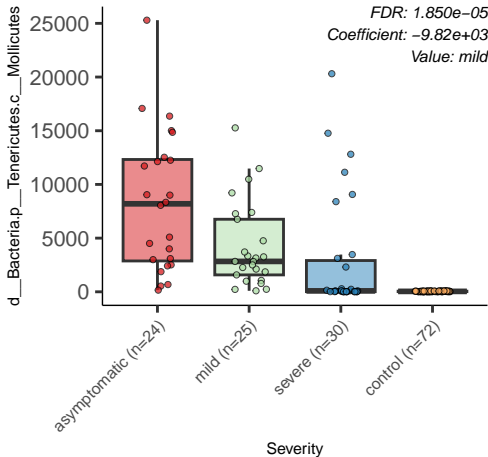


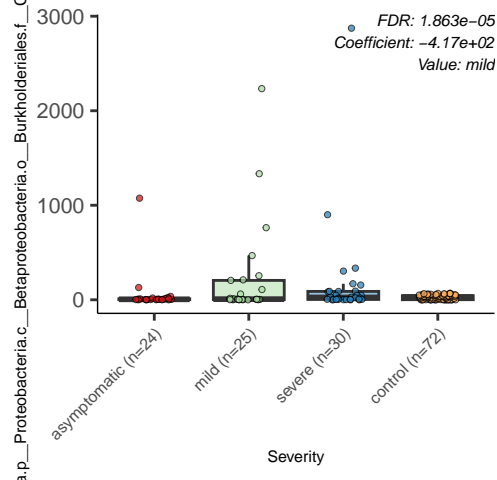


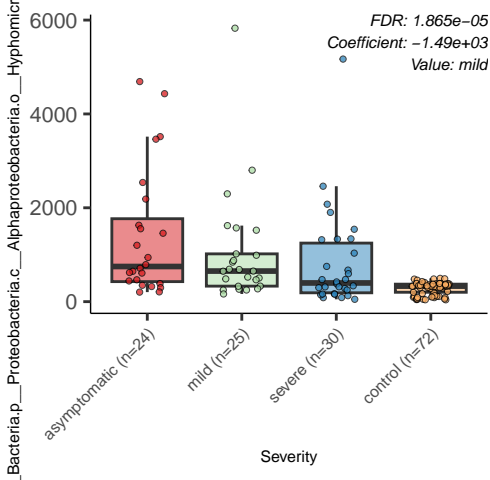
ria.p_Actinobacteria.c_Actinomycetia.o_Micrococcales.f_Brevib

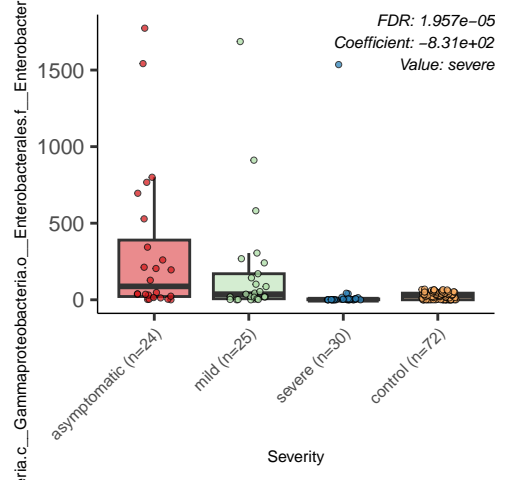


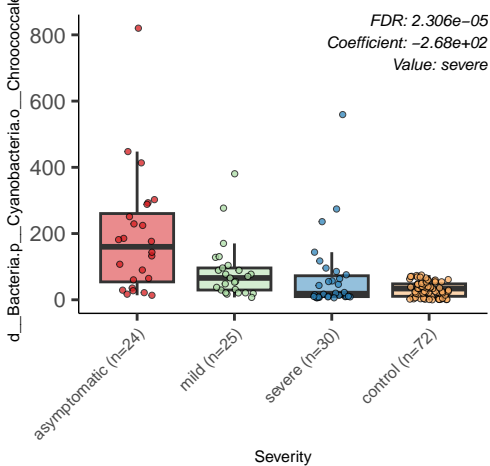


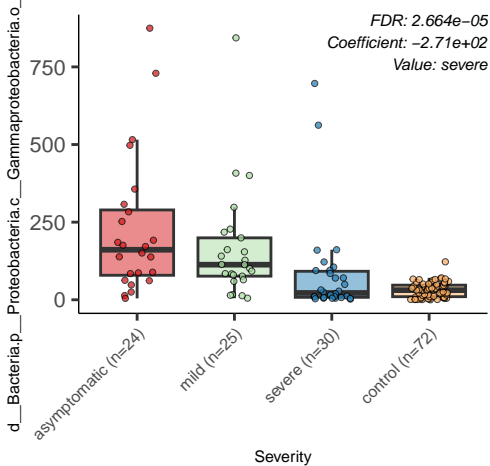


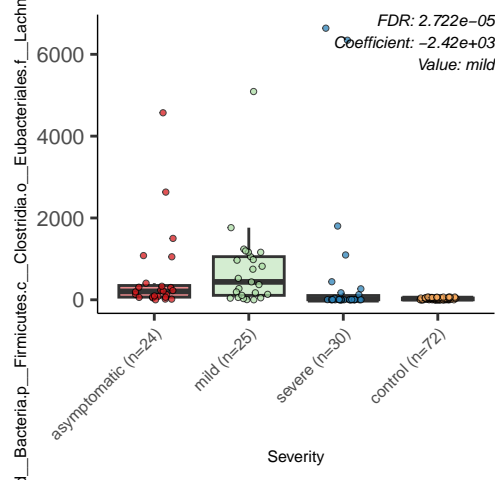




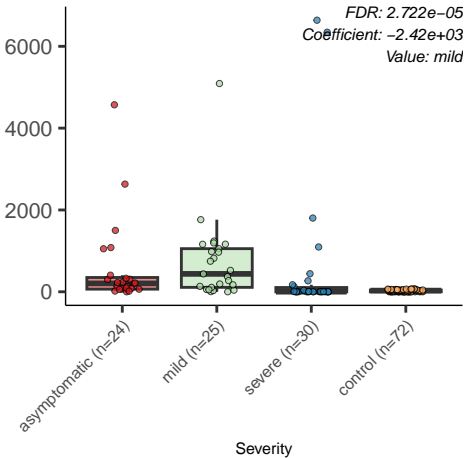


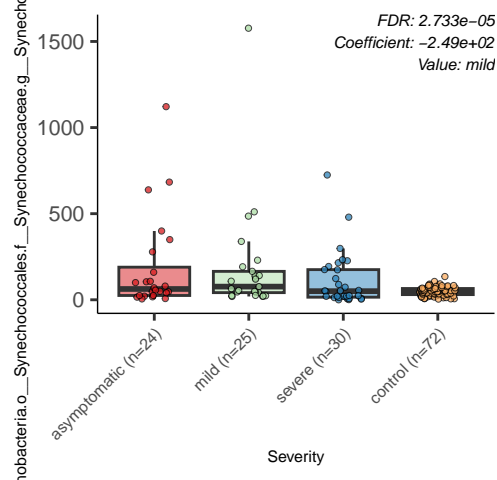




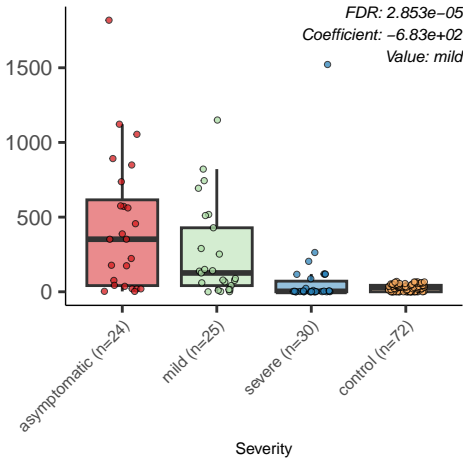


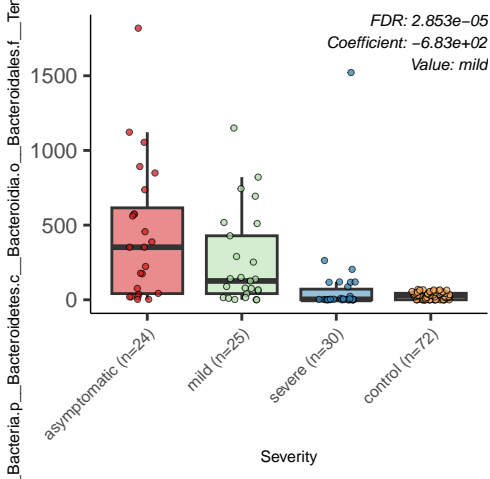
g__Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g



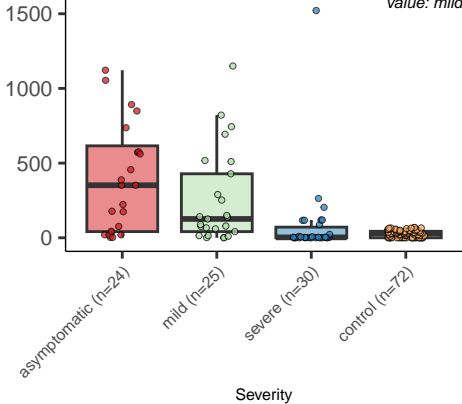


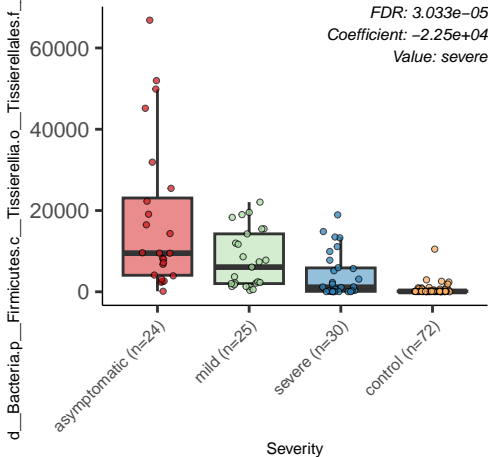
d_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales

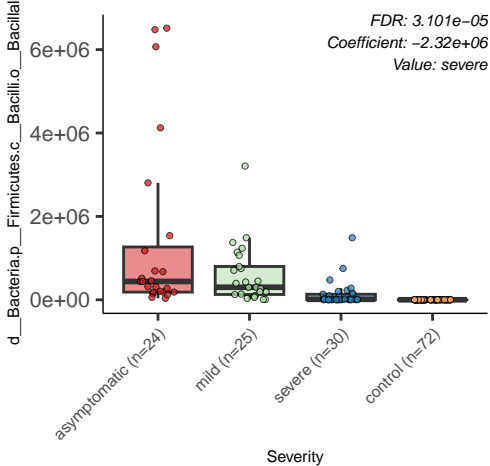


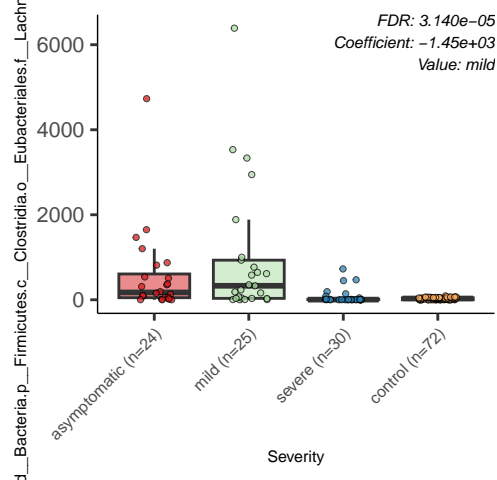


FDR: $2.853e-05$
Coefficient: $-6.83e+02$
Value: mild

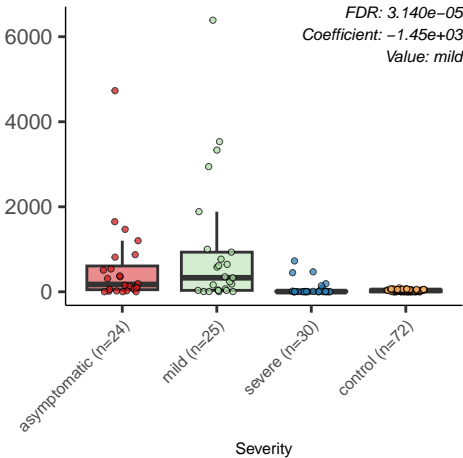


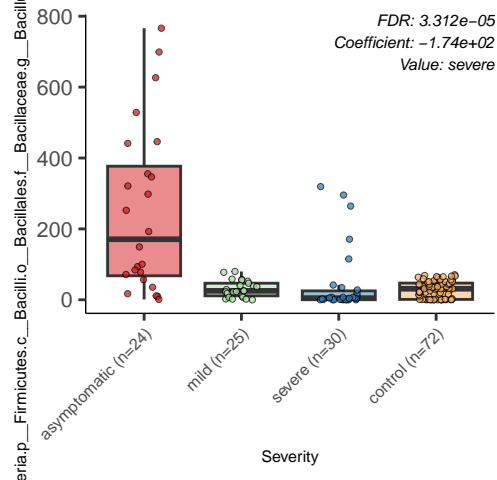




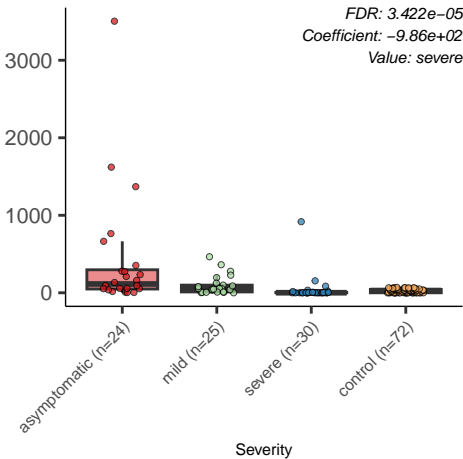


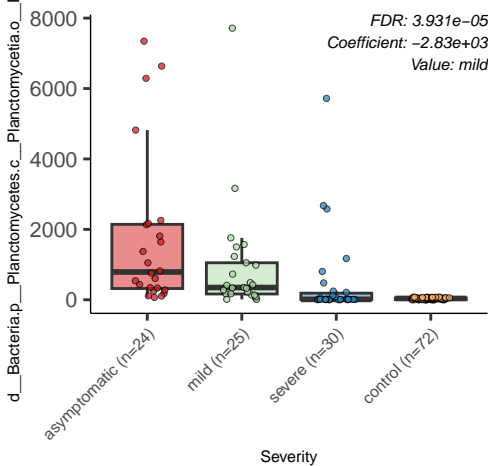
u.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae

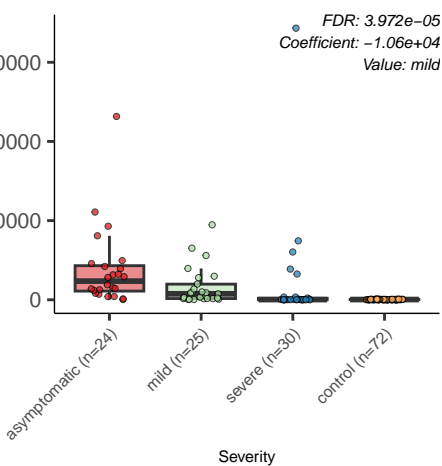


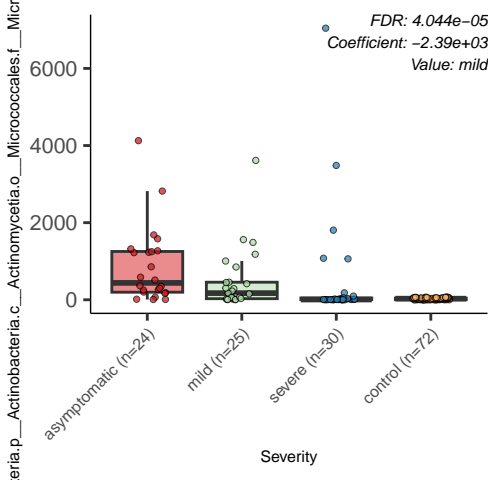


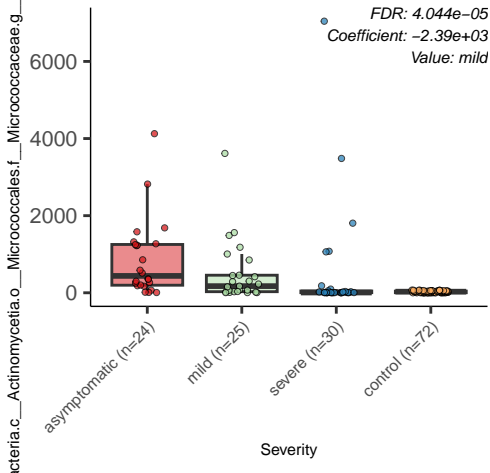
scutes.c__Mollicutes.o__Mycoplasmales.f__Mycoplasmataceae.g



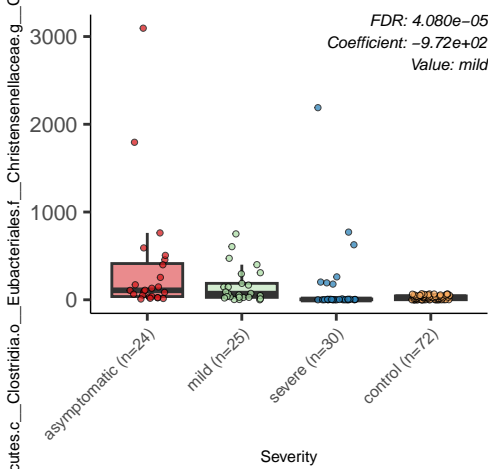


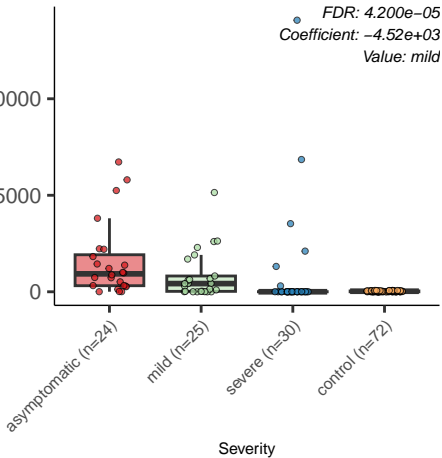




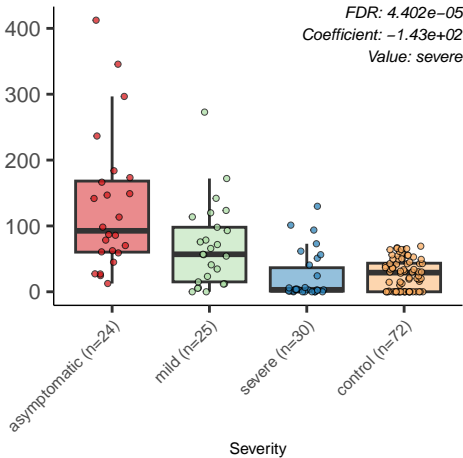


phylum: Bacteroidetes, class: Sphingobacteriia, order: Sphingobacteriales, family: Sphingobacteriaceae, genus: Sphingobacterium, species: Sphingobacterium



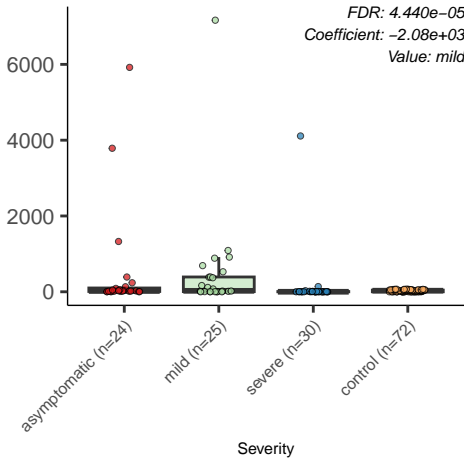


icutes.c__Bacilli.o__Lactobacillales.f__Enterococcaceae.g__Tetrag

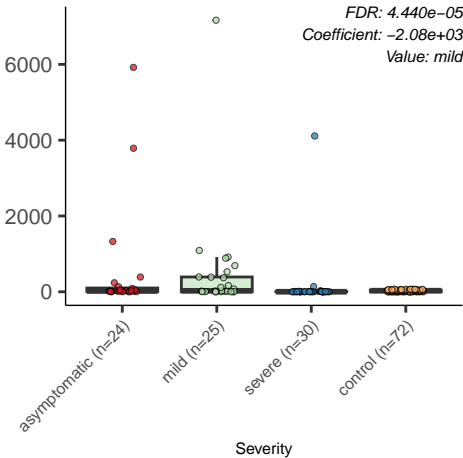


d__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales

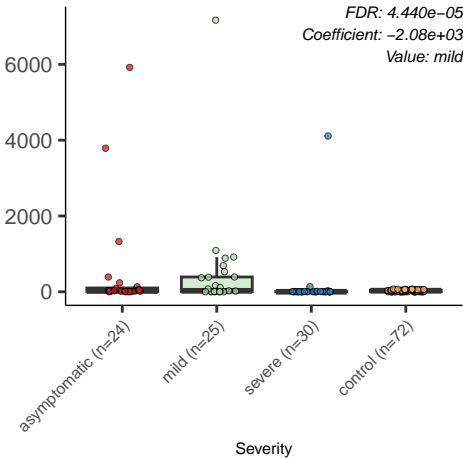
FDR: $4.440e-05$
Coefficient: $-2.08e+03$
Value: mild



eria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f__Therr



ctomycetes.c__Planctomycetia.o__Pirellulales.f__Thermoguttaceae.



d__Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Spirochaetes

75000

50000

25000

0

asymptomatic (n=24)

mild (n=25)

severe (n=30)

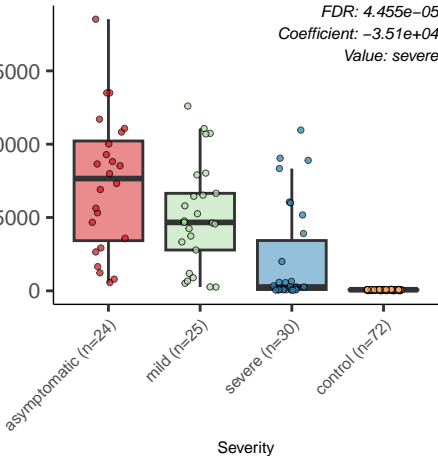
control (n=72)

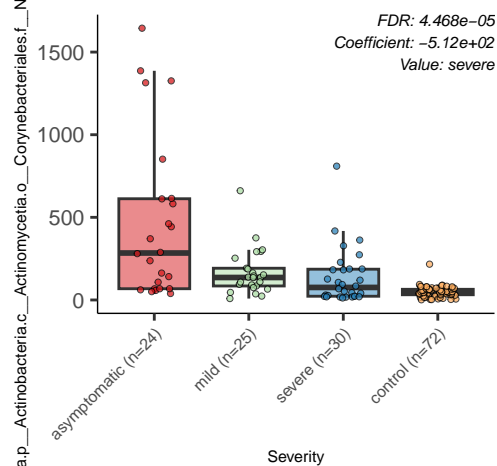
Severity

FDR: $4.455e-05$

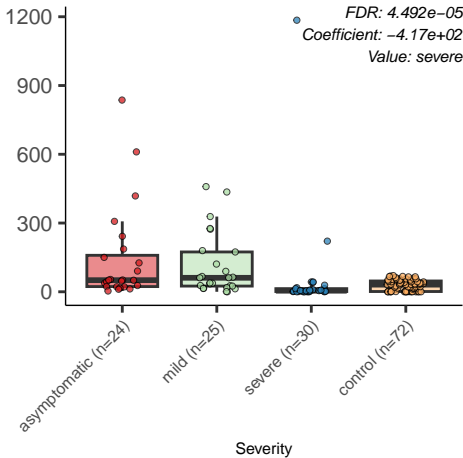
Coefficient: $-3.51e+04$

Value: severe

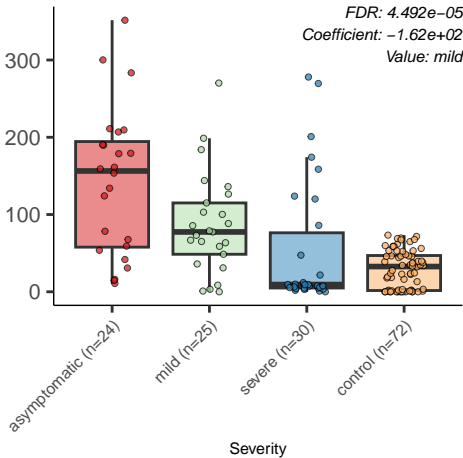




teobacteria.c__Gammaproteobacteria.o__Oceanospirillales.f__Hal

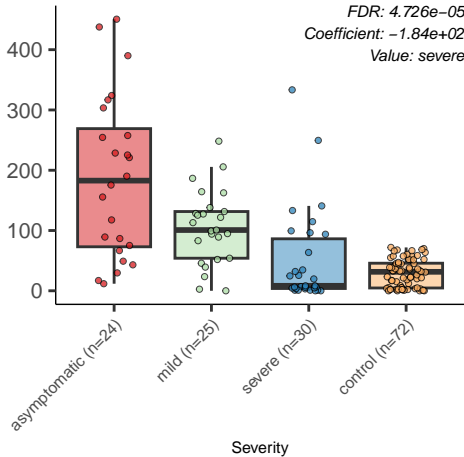


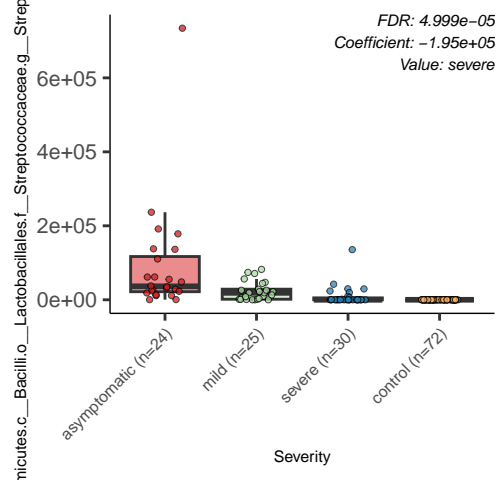
d_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Planococcaceae

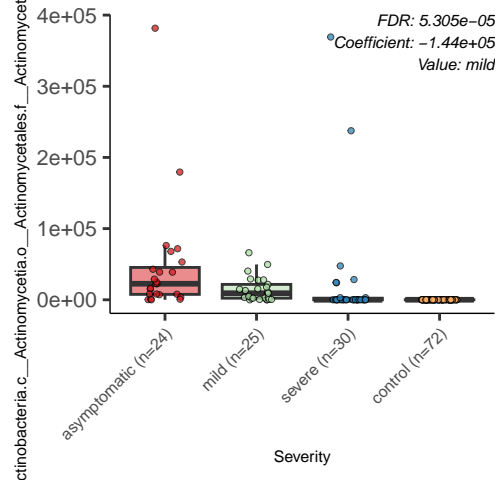


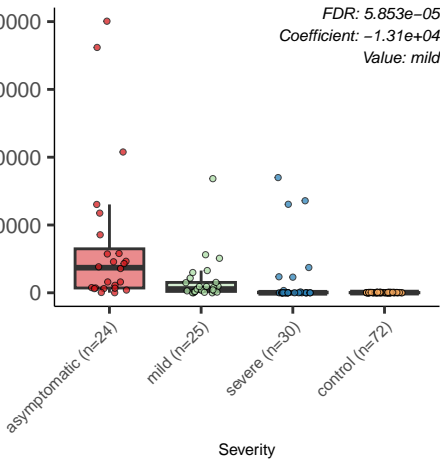
a.p__Cyanobacteria.o__Oscillatoriales.f__Oscillatoriaceae.g__Oscil

FDR: $4.726e-05$
Coefficient: $-1.84e+02$
Value: severe

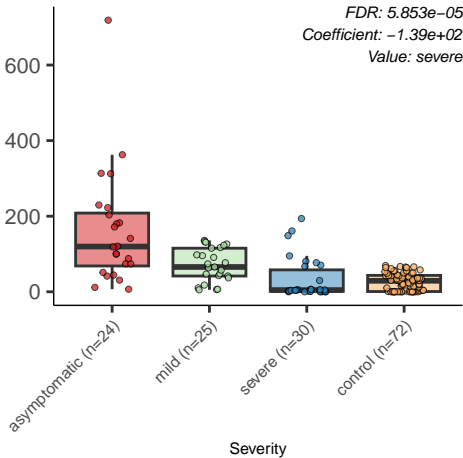




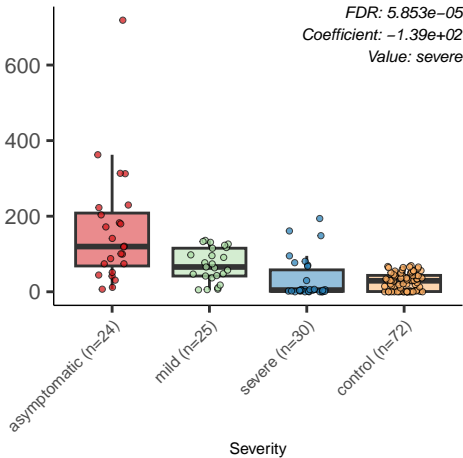


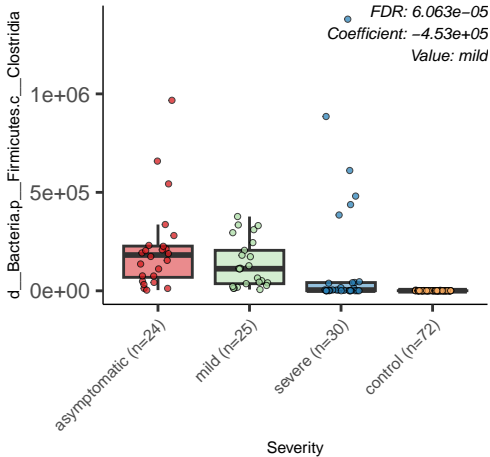


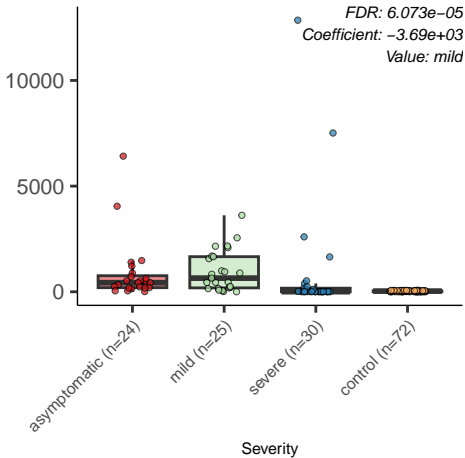
d_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Bacillaceae

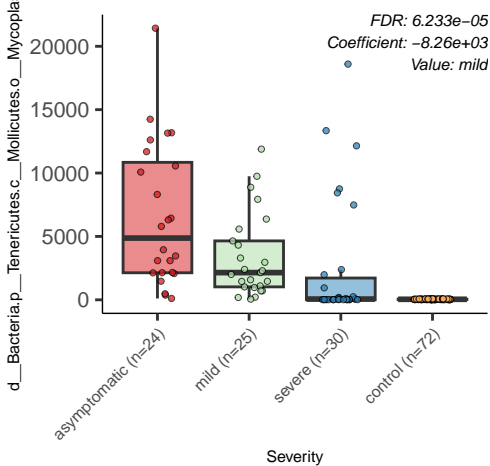


ia.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__Weizma

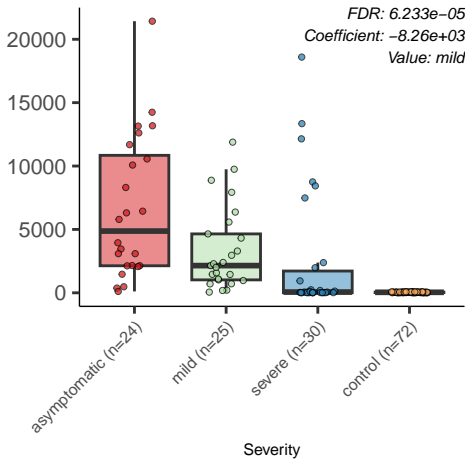


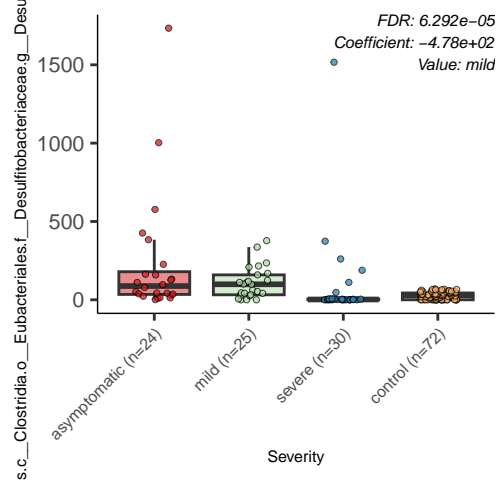




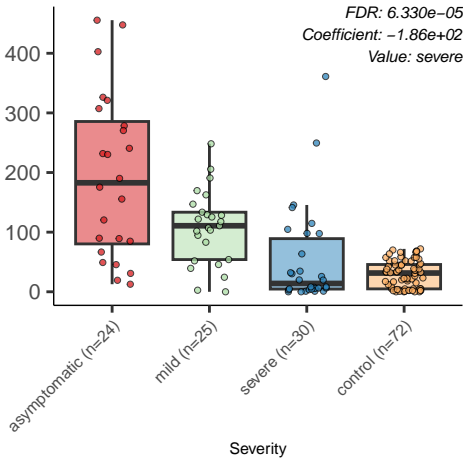


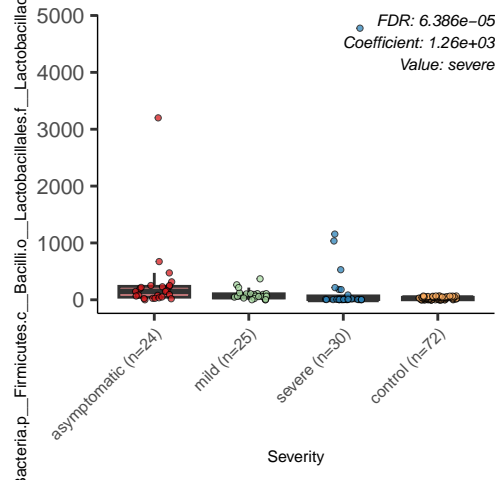
d_Bacteria.p_Tenericutes.c_Mollicutes.o_Mycoplasmales.f

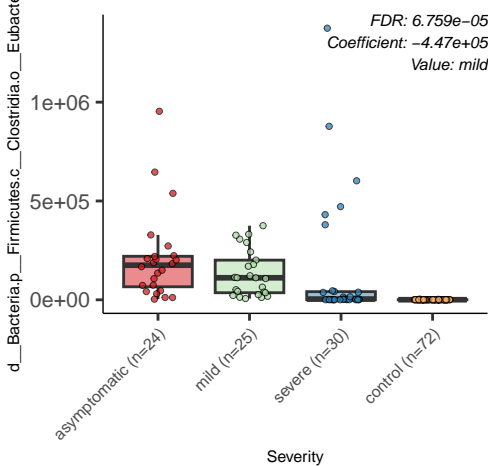


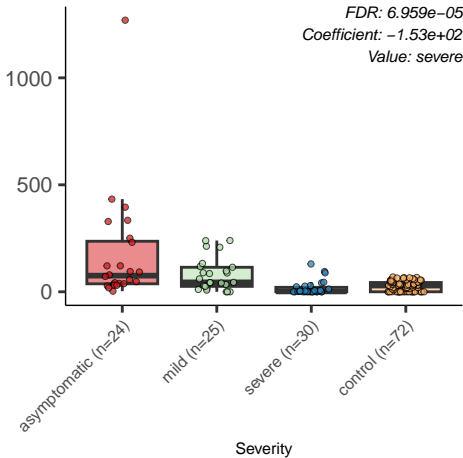


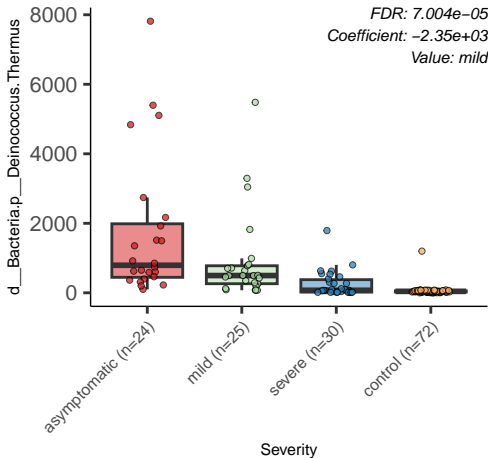
d_Bacteria.p_Cyanobacteria.o_Oscillatoriales.f_Oscillatoria

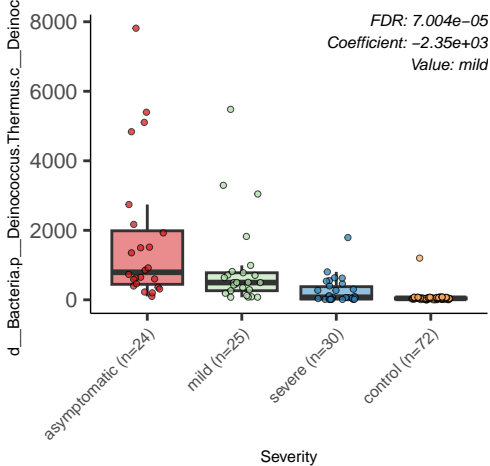












Firmicutes.c_Bacilli.o_Lactobacillales.f_Streptococcaceae.g_s

2000

1000

0

FDR: 7.158e-05

Coefficient: -8.30e+02

Value: severe

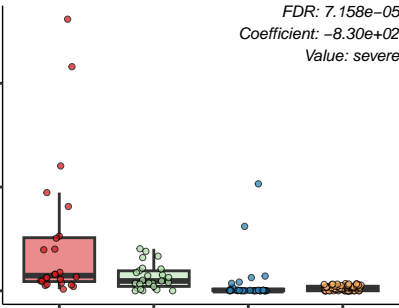
asymptomatic (n=24)

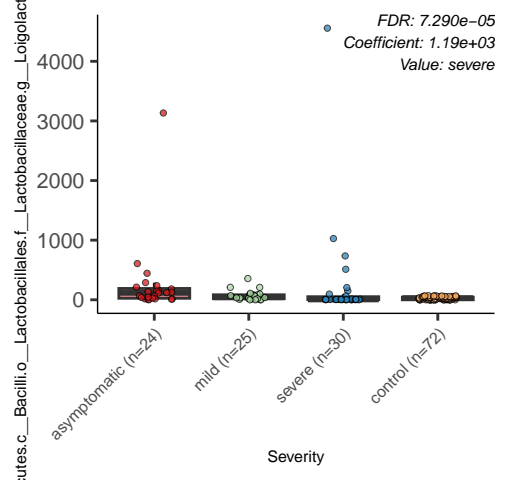
mild (n=25)

severe (n=30)

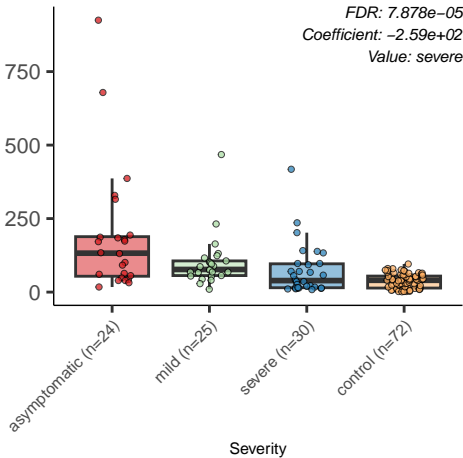
control (n=72)

Severity



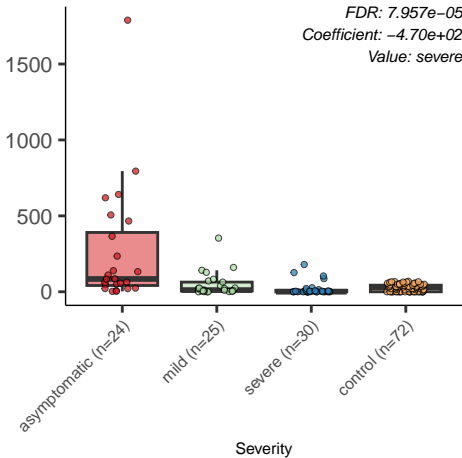


Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o__Chroma

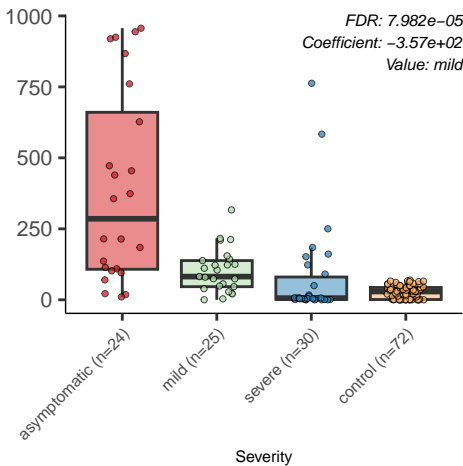


micutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Stre

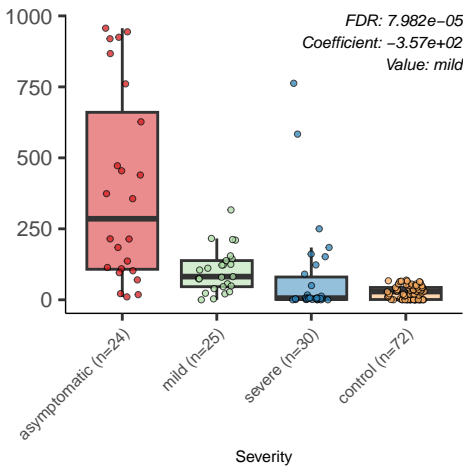
FDR: 7.957e-05
Coefficient: -4.70e+02
Value: severe

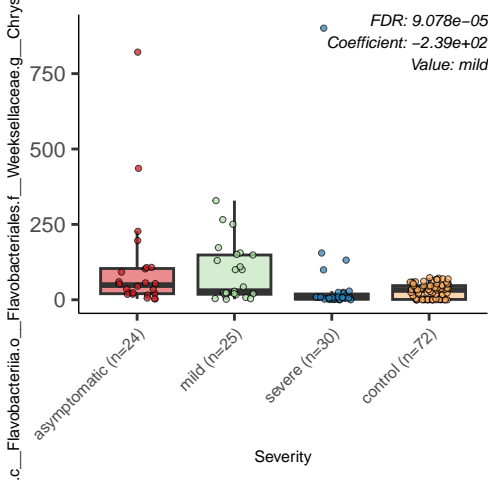


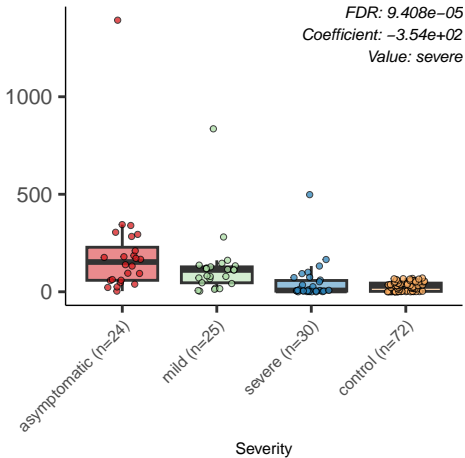
d_Bacteria.p_Bacteroidetes.o_Bacteroidetes.Order.II.L...

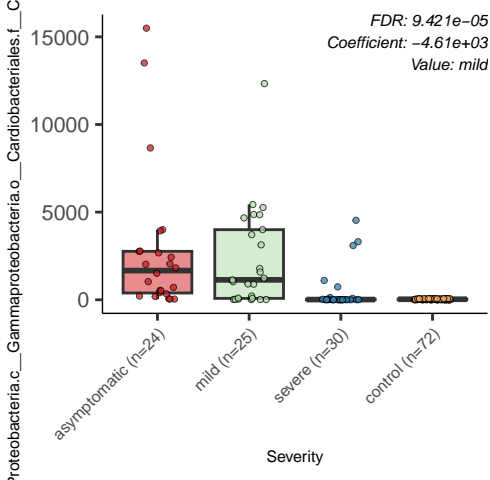


Bacteria.p_Bacteroidetes.o__Bacteroidetes.Order.II..Incertae.sed

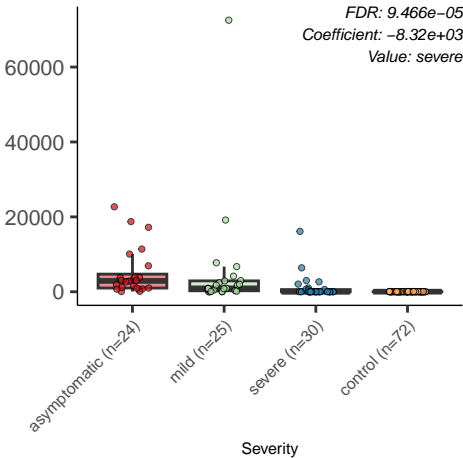


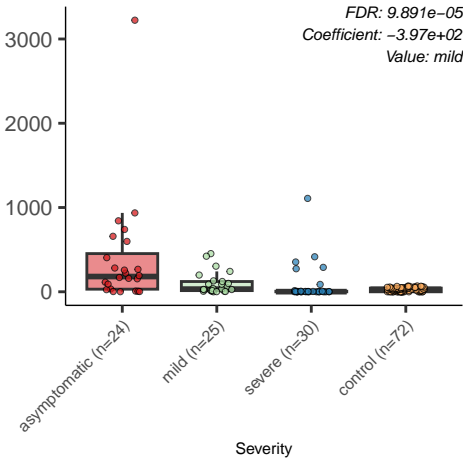




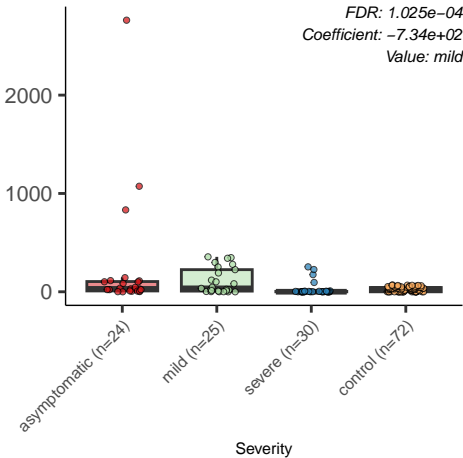


irmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Stre

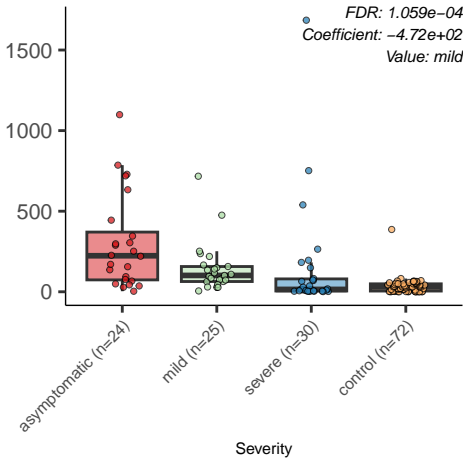


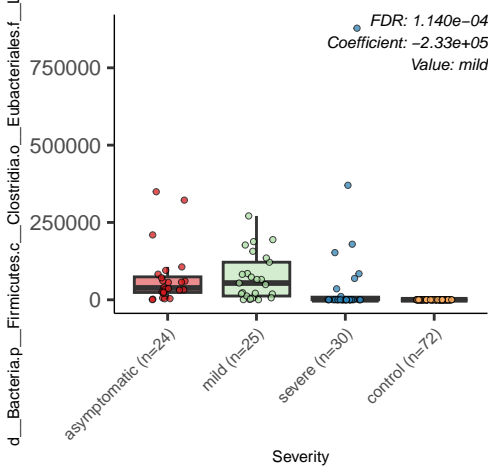


etes.c__Spirochaetia.o__Spirochaetales.f__Treponemataceae.g__T

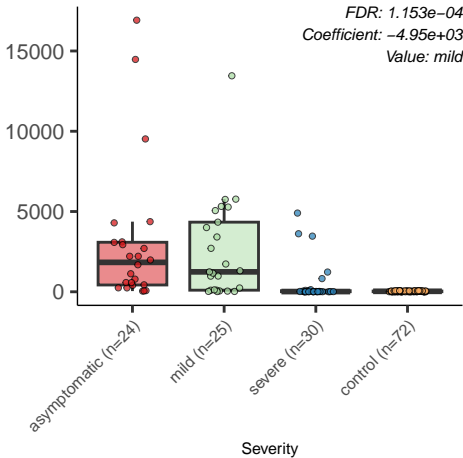


Bacteria.p_Firmicutes.c_Bacilli.o_Lactobacillales.f_Aerococcus

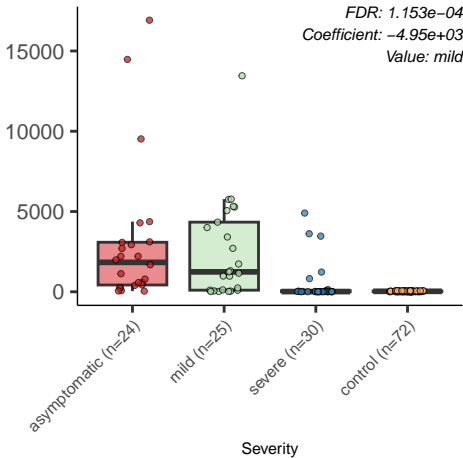


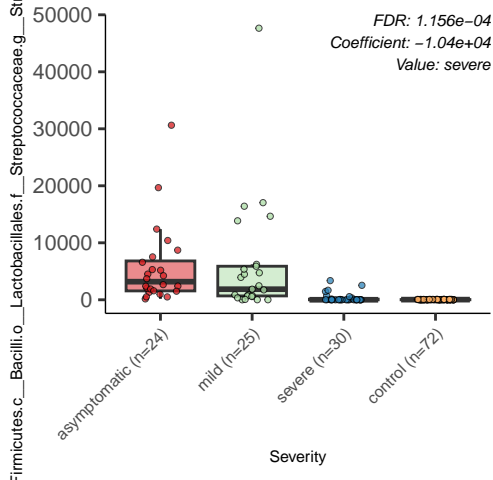


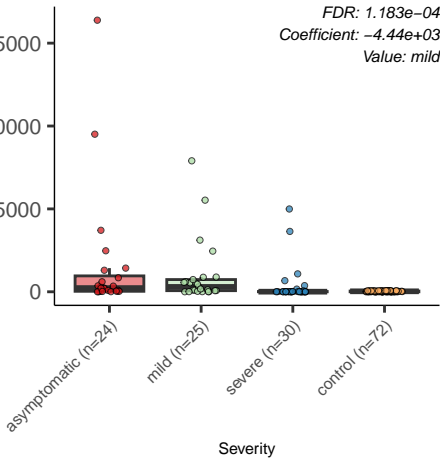
d_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_o

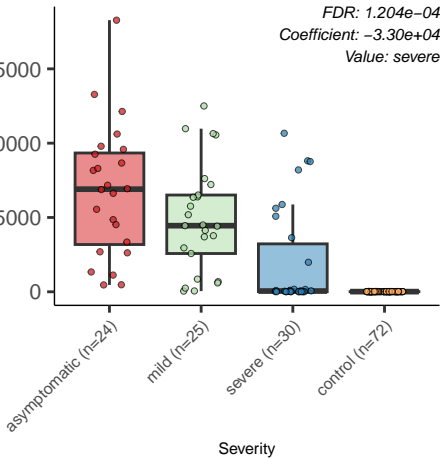


bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Cardiobacter









Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g

20000

10000

0

asymptomatic (n=24)

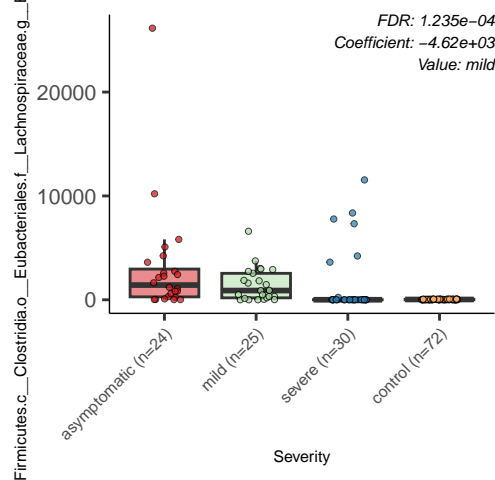
mild (n=25)

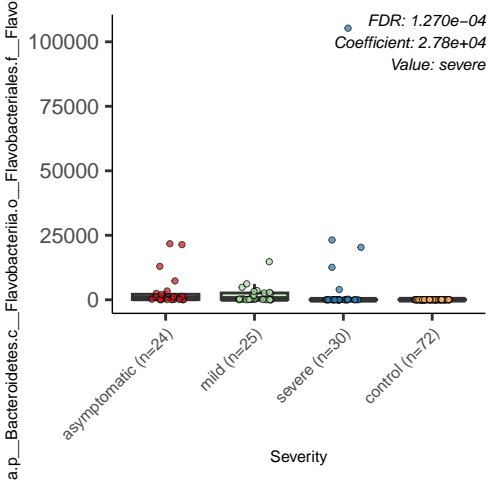
severe (n=30)

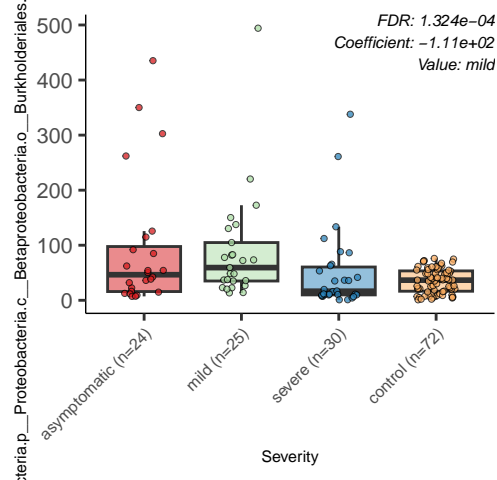
control (n=72)

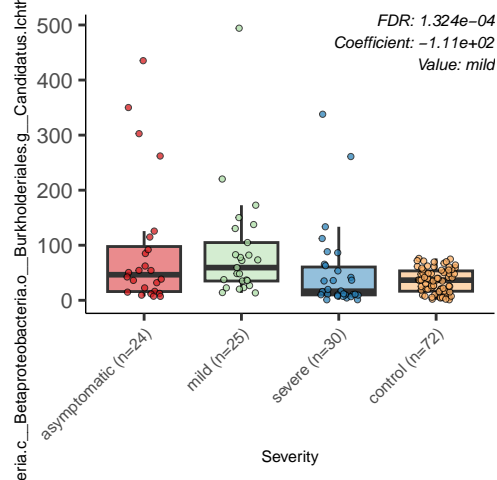
Severity

FDR: 1.235e-04
Coefficient: -4.62e+03
Value: mild

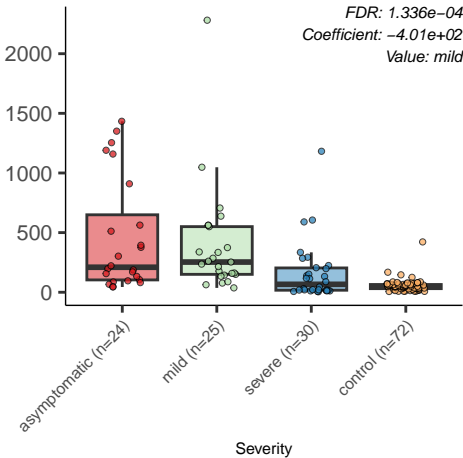


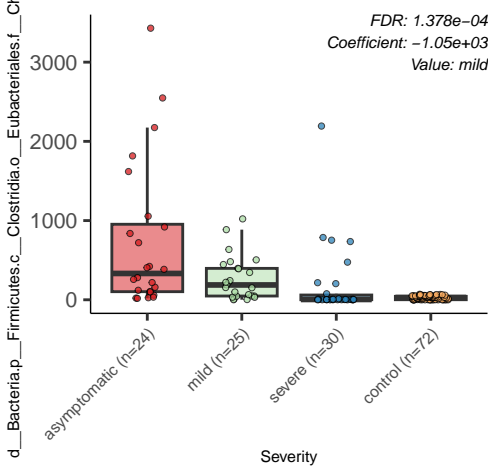






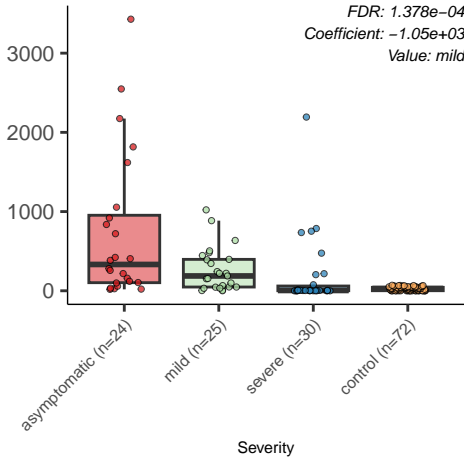
Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rickettsia



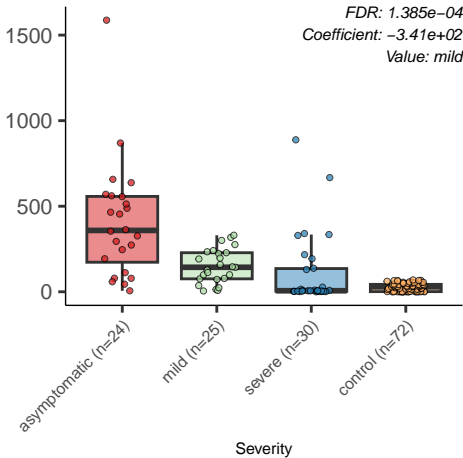


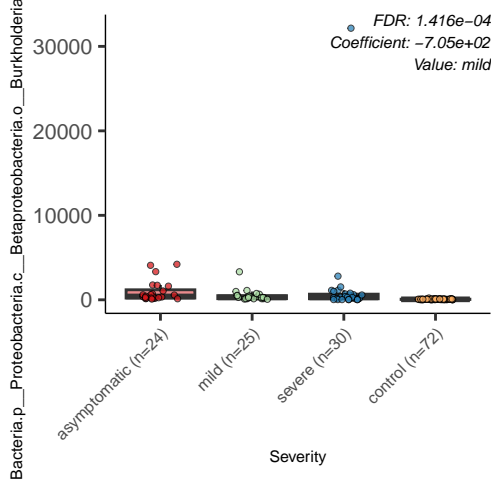
bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Christensen

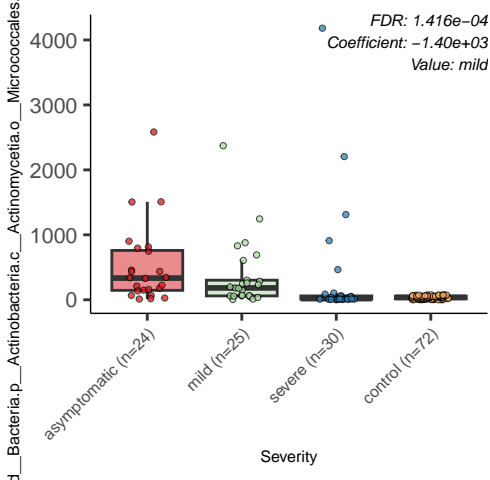
FDR: $1.378e-04$
Coefficient: $-1.05e+03$
Value: mild

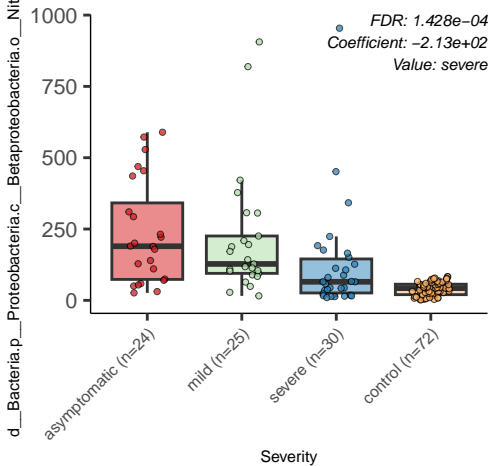


d_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Thermo

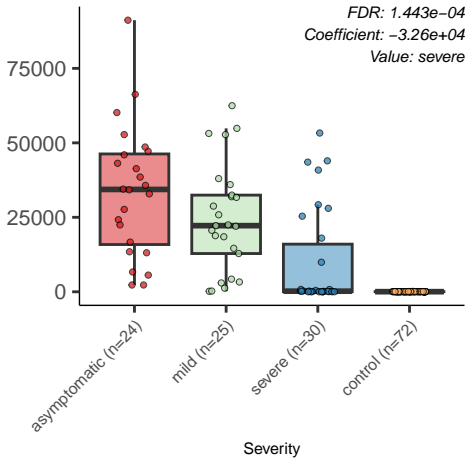


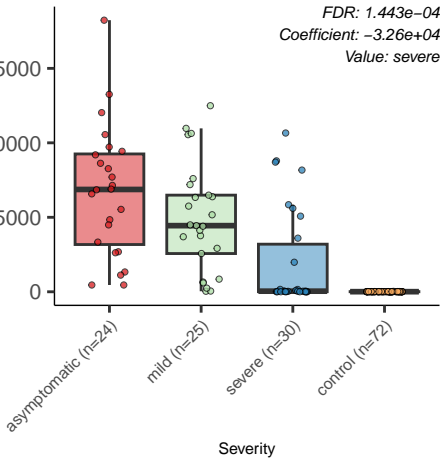


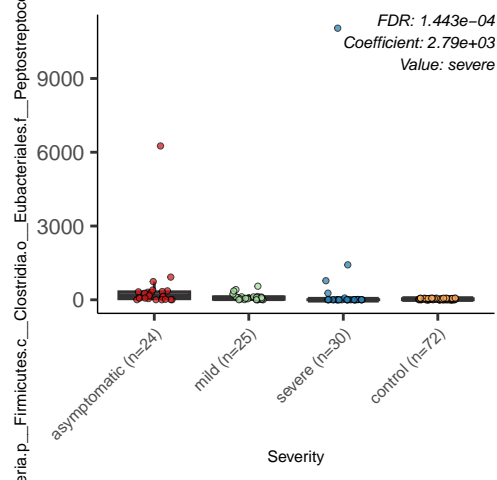


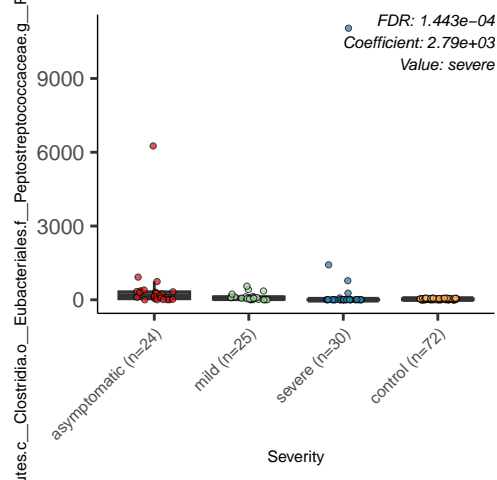


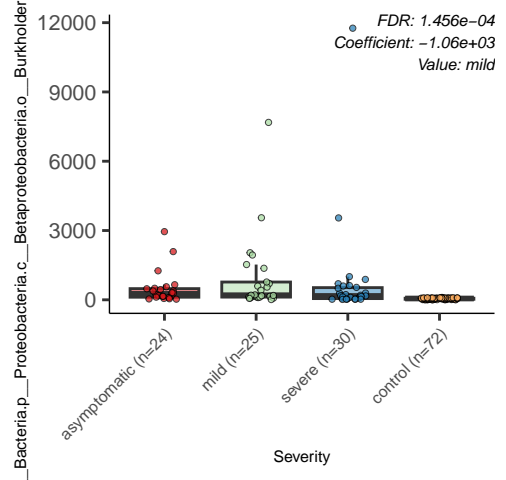
Proteobacteria.c__Alphaproteobacteria.o__Sphingomonadales.f__E

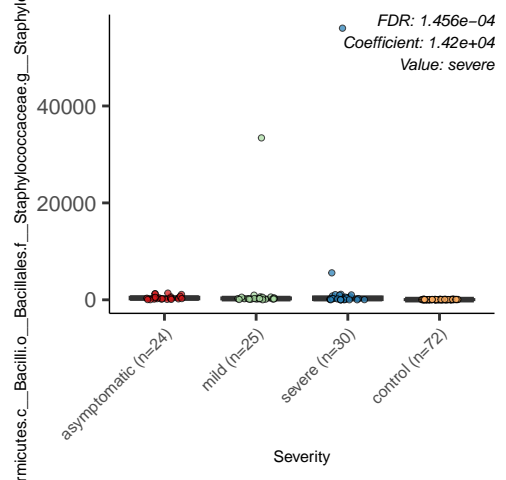


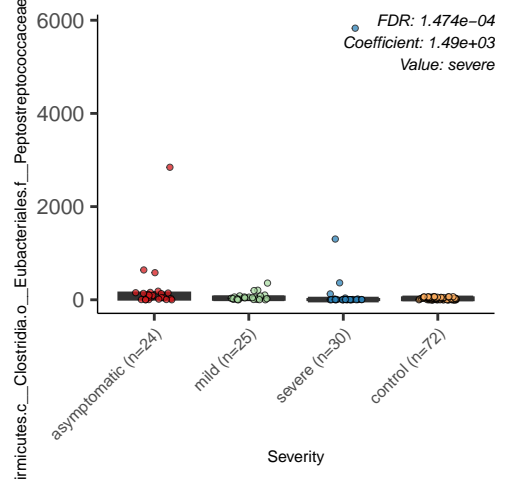




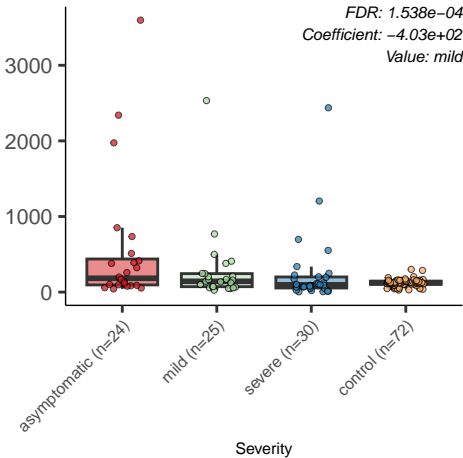


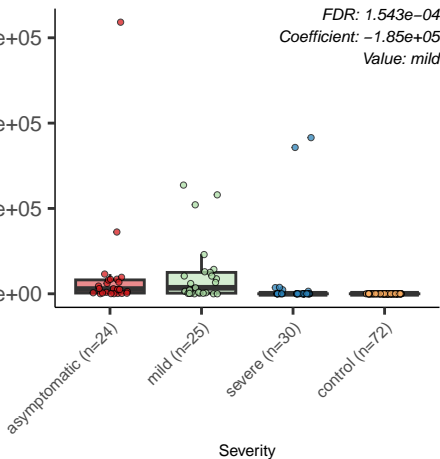


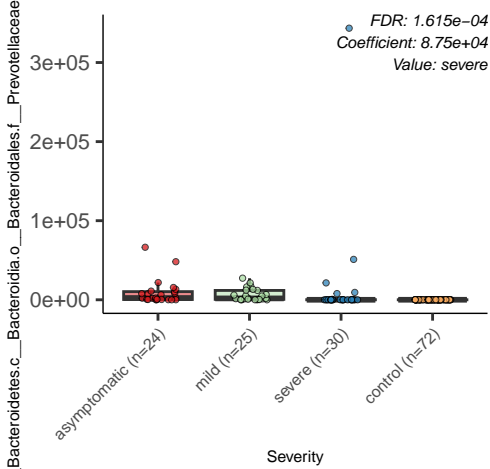




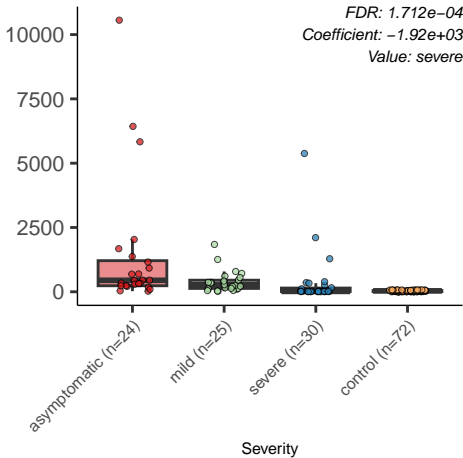
a.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__B

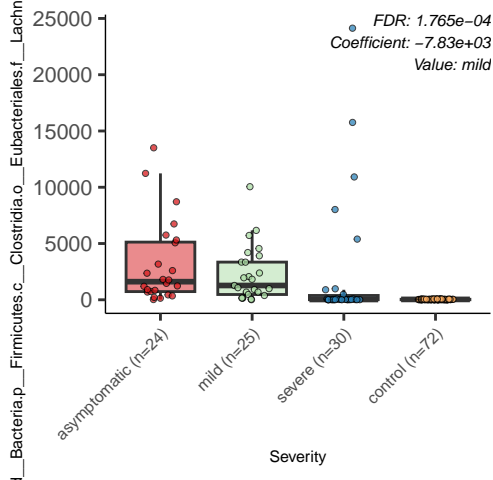


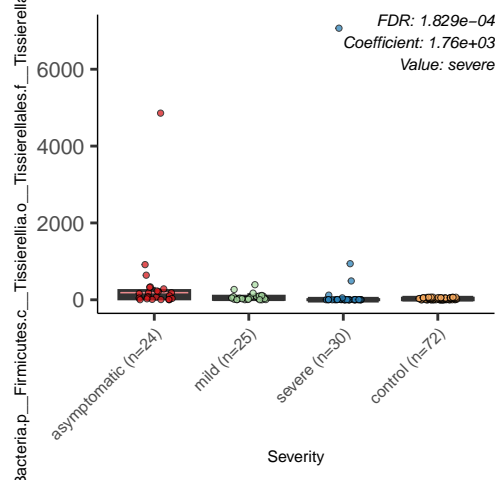


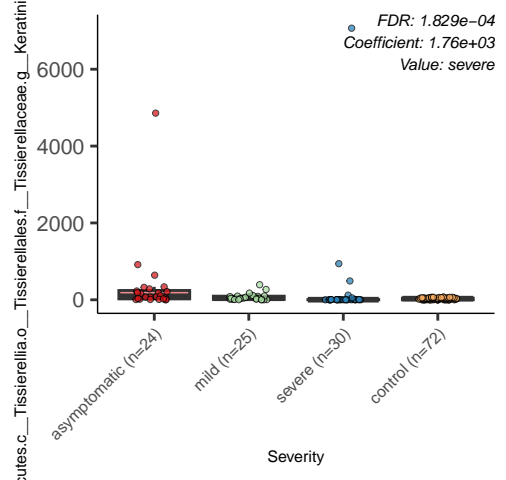


Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterob

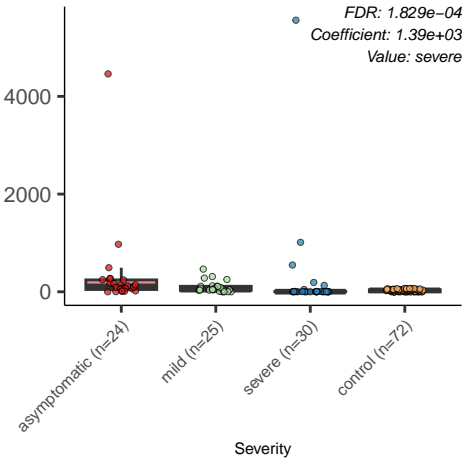




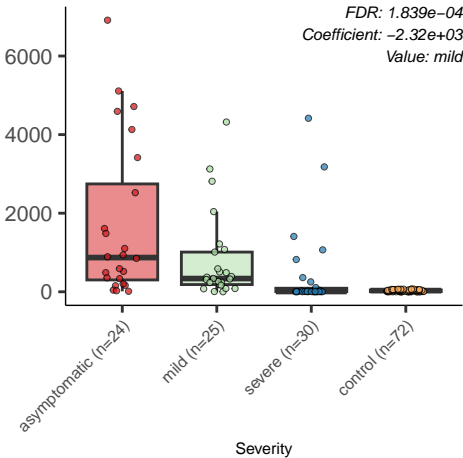




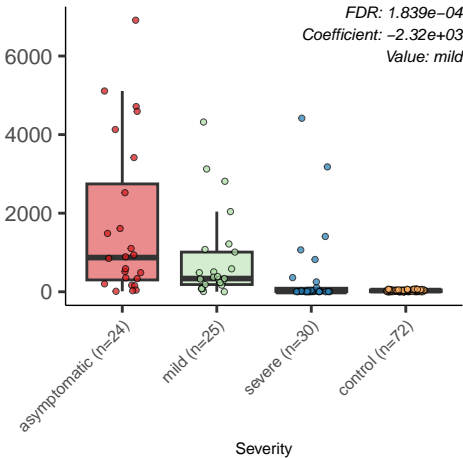
Firmicutes.c__Clostridia.o__Eubacteriales.f__Clostridiaceae.g__Alkal



Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Peptostreptococci

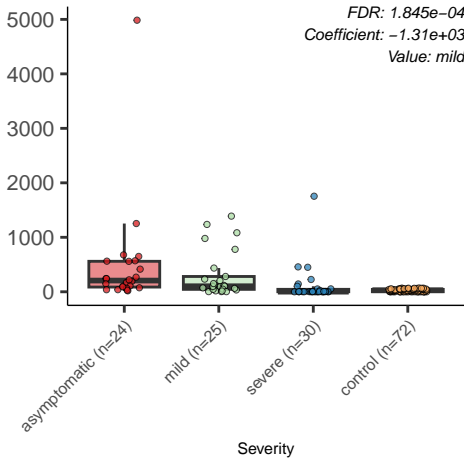


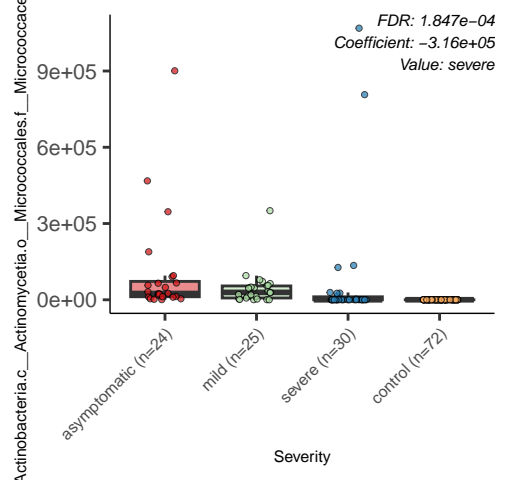
Firmicutes.c__Clostridia.o__Eubacteriales.f__Peptostreptococcae

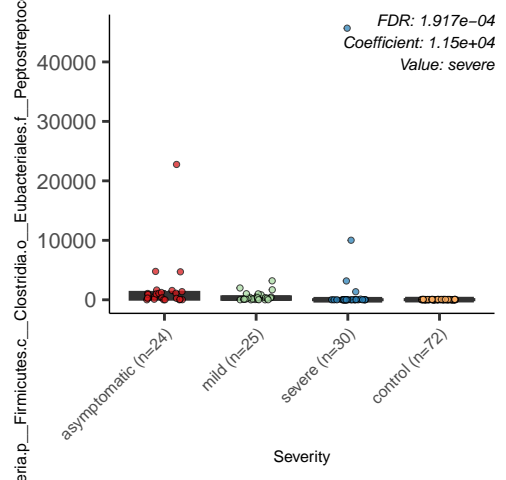


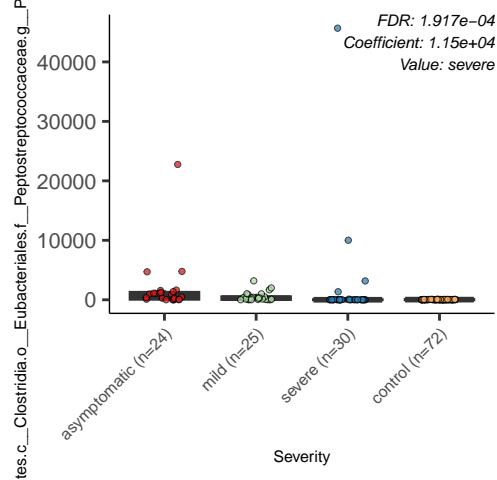
detes.c_Flavobacteriia.o_Flavobacteriales.f_Blattabacteriaceae.g

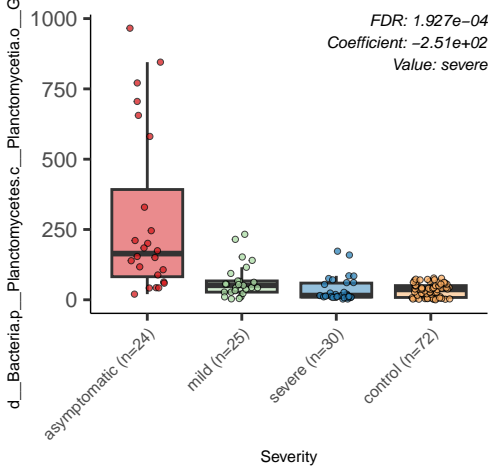
FDR: 1.845e-04
Coefficient: -1.31e+03
Value: mild



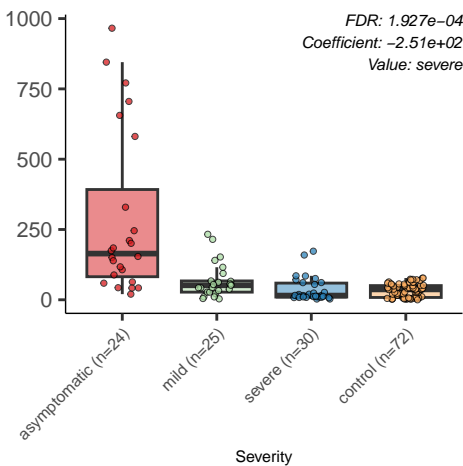






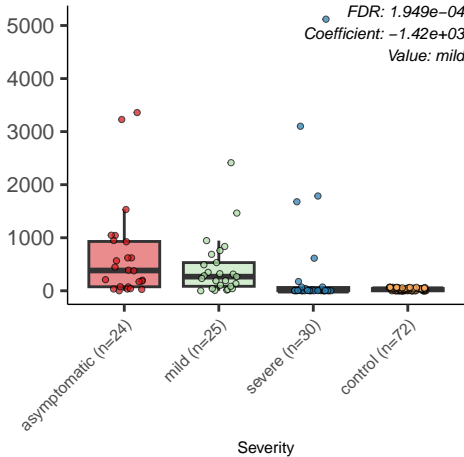


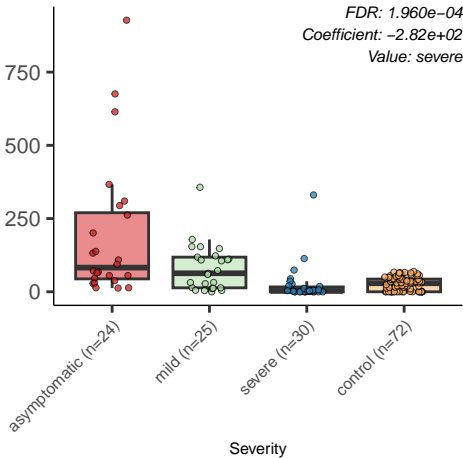
d_Bacteria.p__Planctomycetes.c__Planctomycetia.o__Gemmatimonadetes

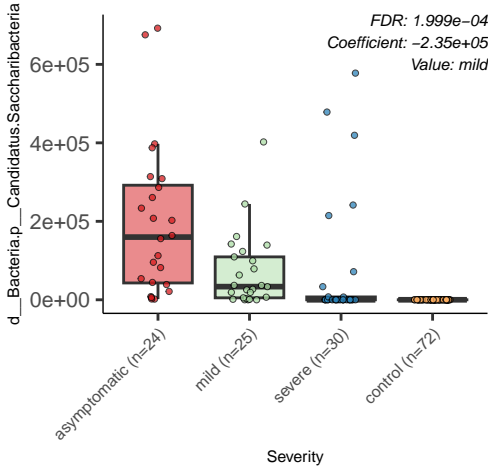


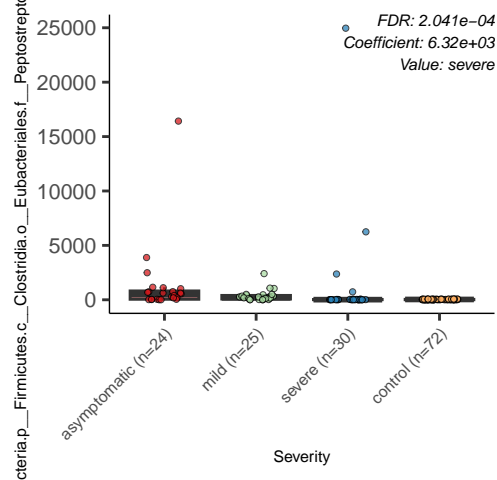
Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Clostridia

FDR: $1.949\text{e-}04$
Coefficient: $-1.42\text{e}+03$
Value: mild









ria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Wee

FDR: 2.060×10^{-4}
Coefficient: -2.59×10^2
Value: mild

1000

500

0

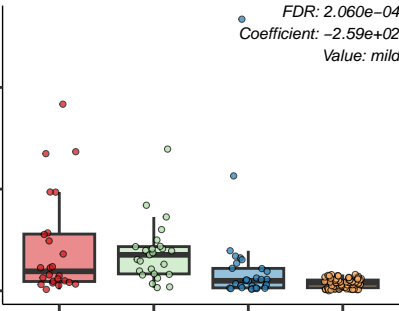
asymptomatic (n=24)

mild (n=25)

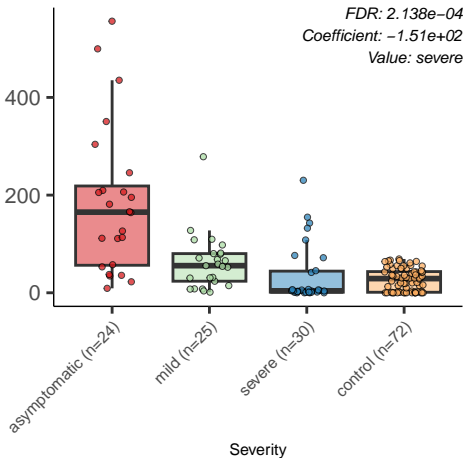
severe (n=30)

control (n=72)

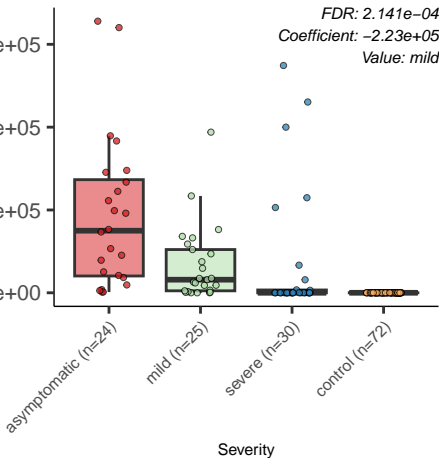
Severity

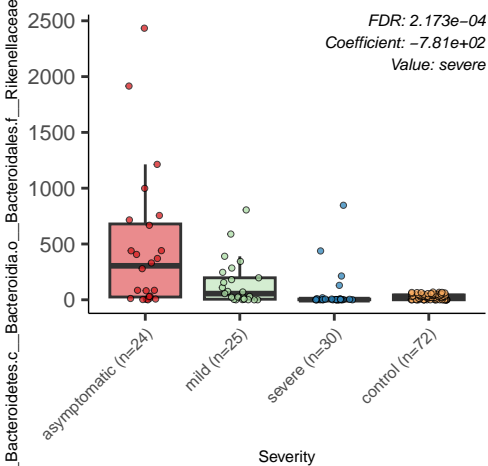


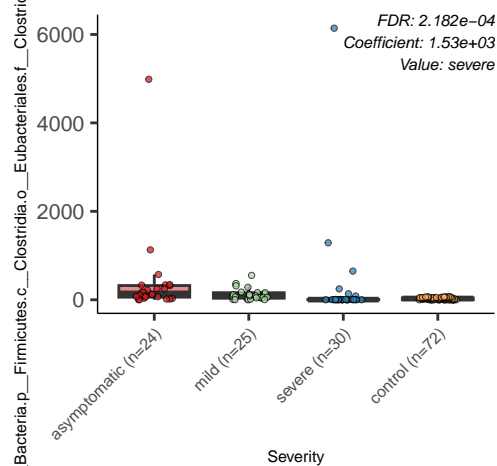
d_Bacteria.p__Firmicutes.c__Clostridia.o__Halanaerobiales.f



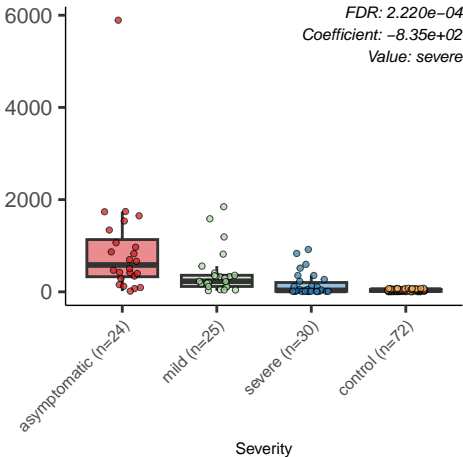
d__Bacteria.p__Candidatus.Saccharibacteria.c__Candidatus.S

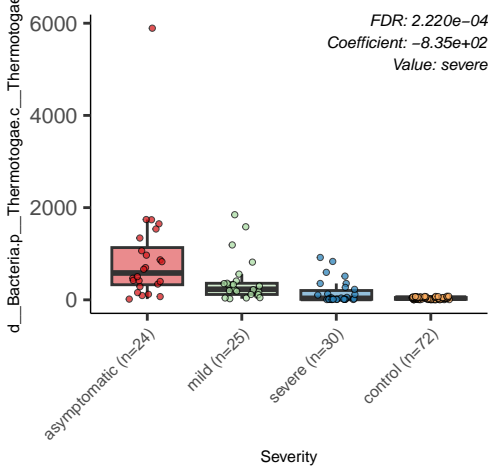


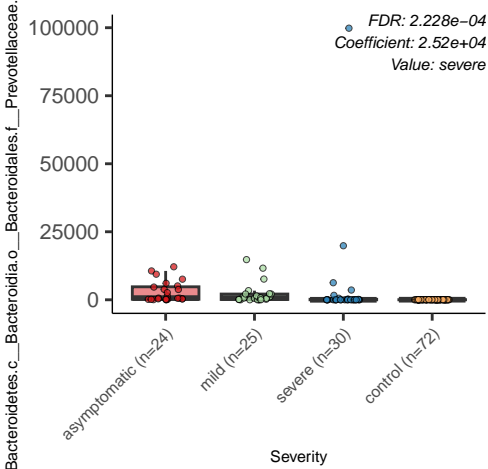


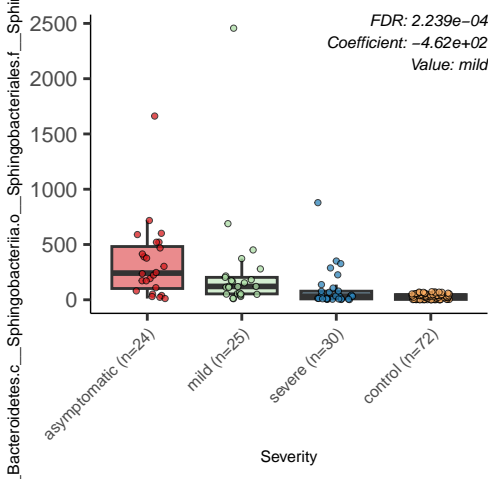


d_Bacteria.p_Thermotogae

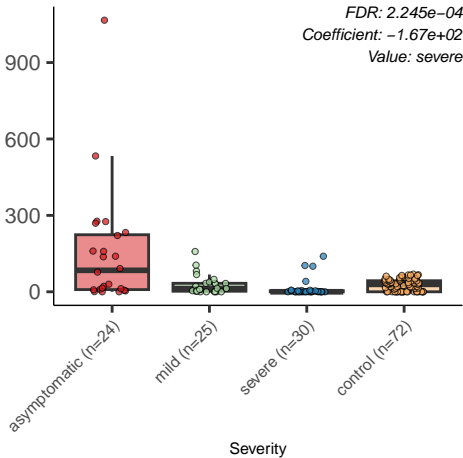




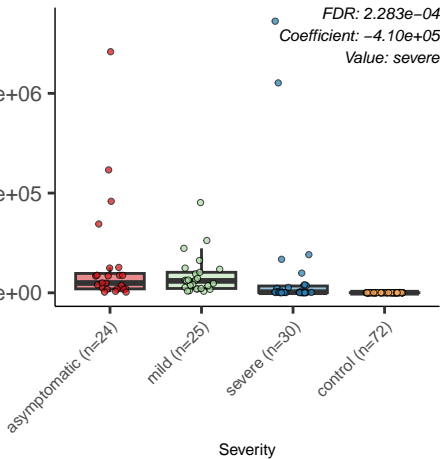


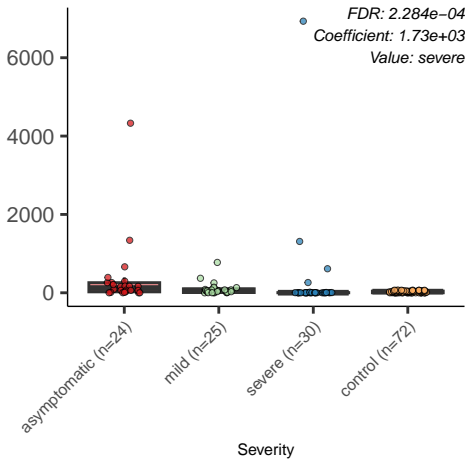


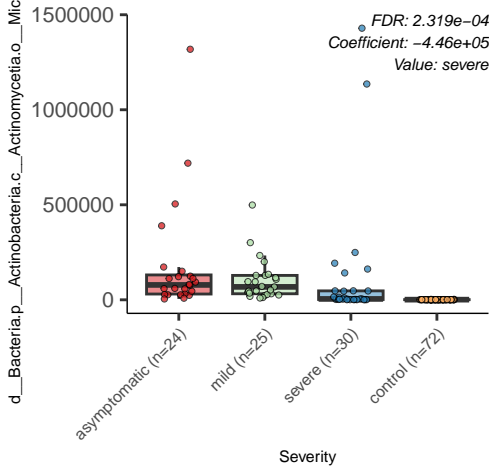
ss.c__Synergistia.o__Synergistales.f__Synergistaceae.g__Therman

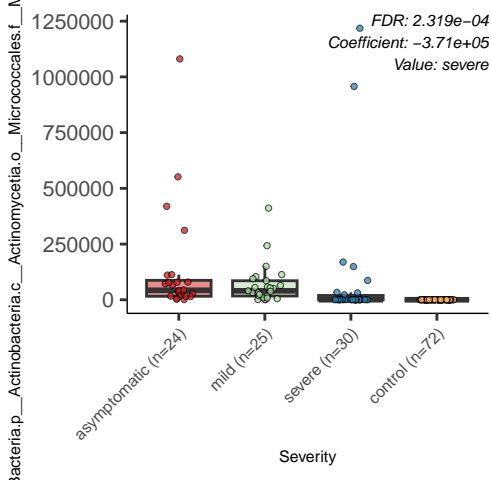


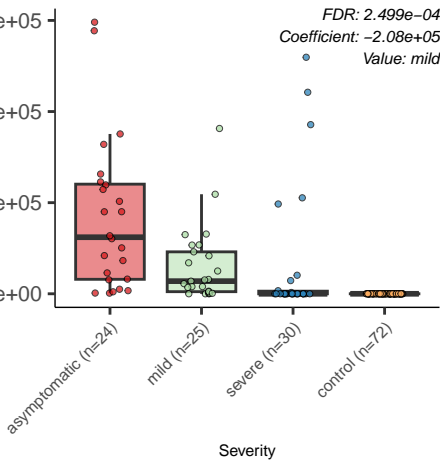
d_Bacteria.p_Actinobacteria.c_Actinomycetia.o_Micrococcales

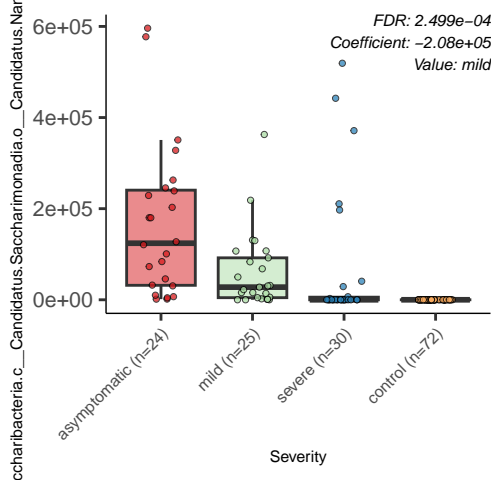


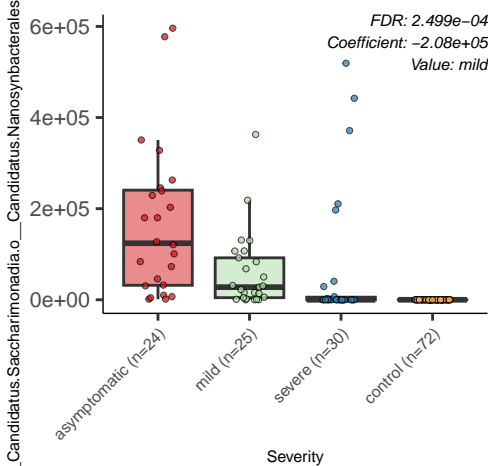


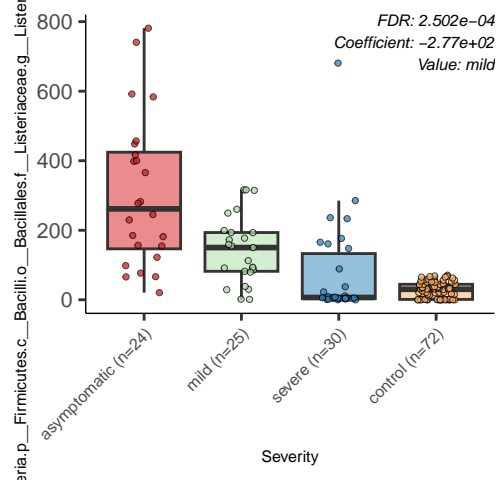




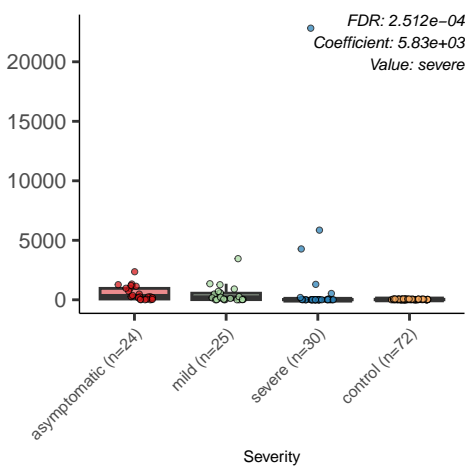


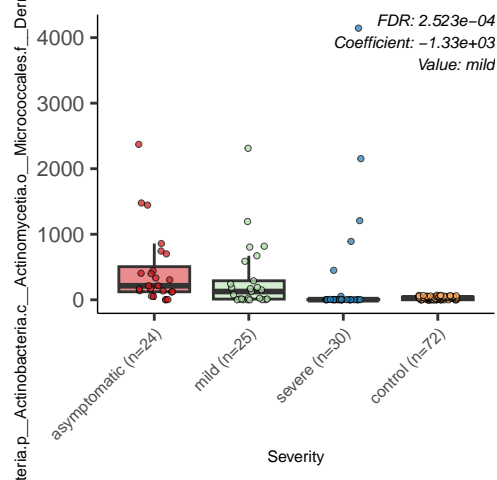


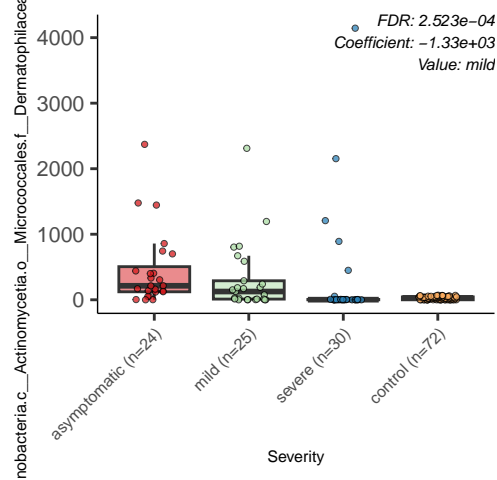


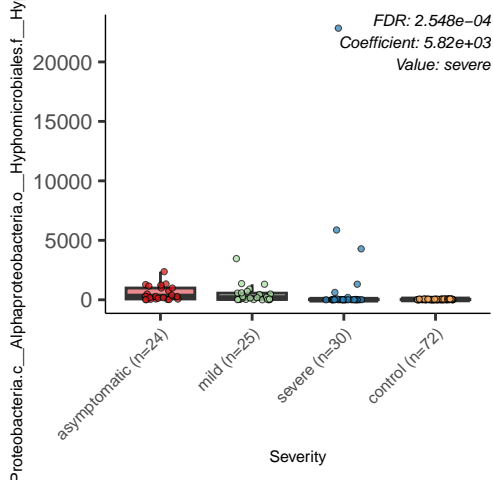


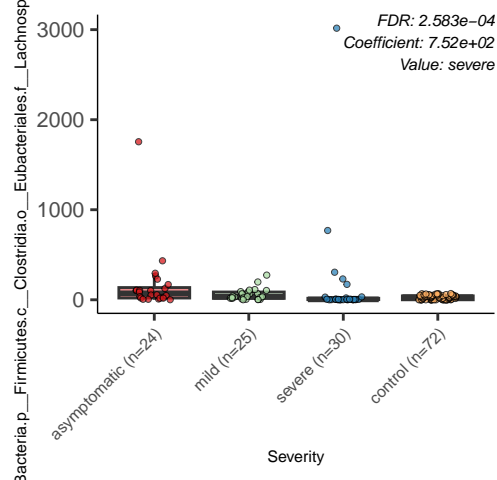
Alphaproteobacteria.o__Hyphomicrobiales.f__Hyphomicrobiaceae

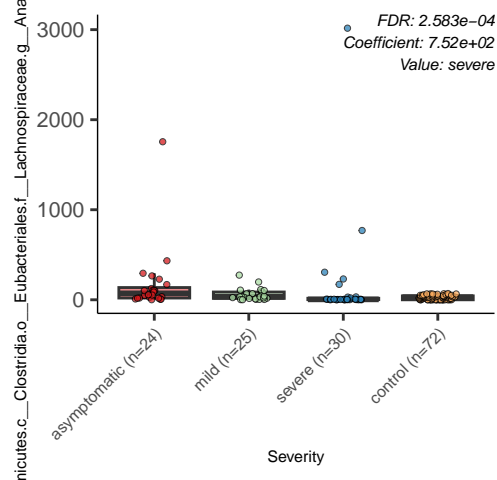




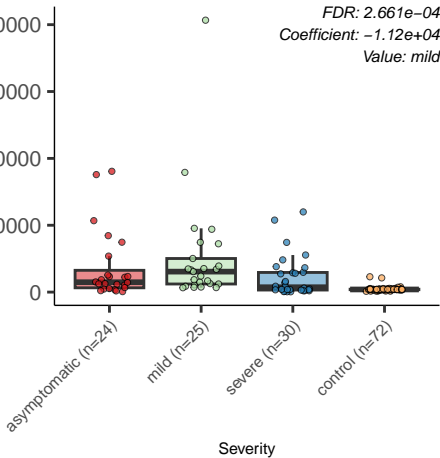


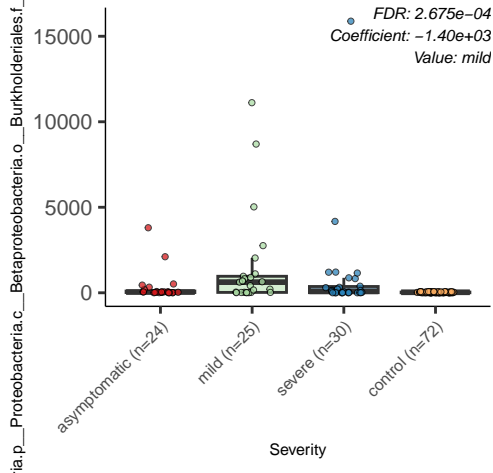


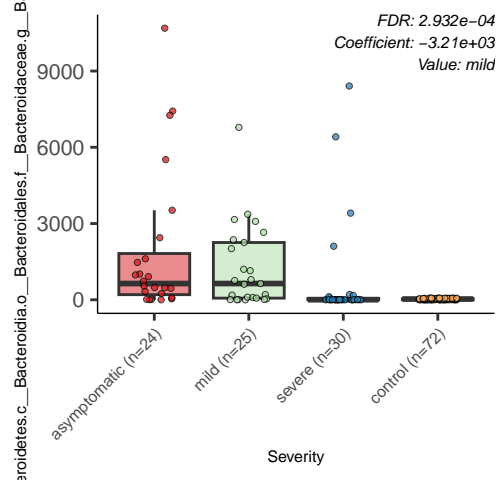


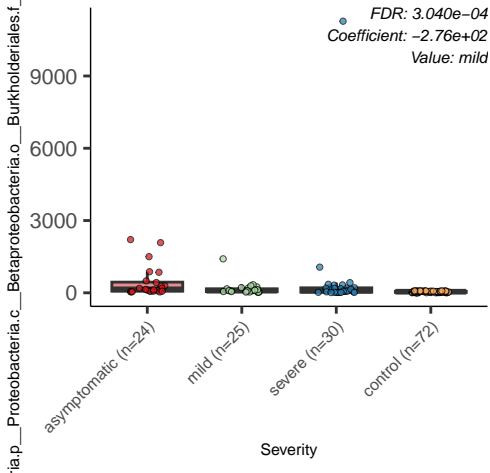


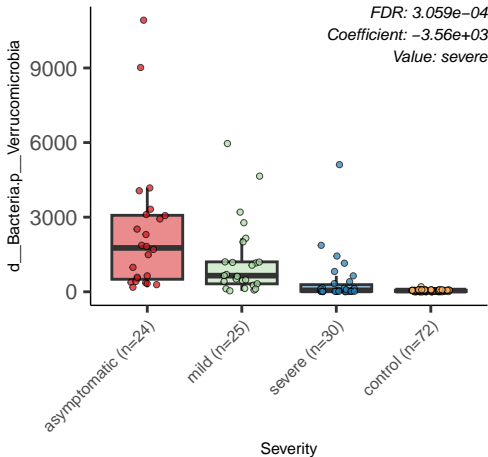
acteria.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurella

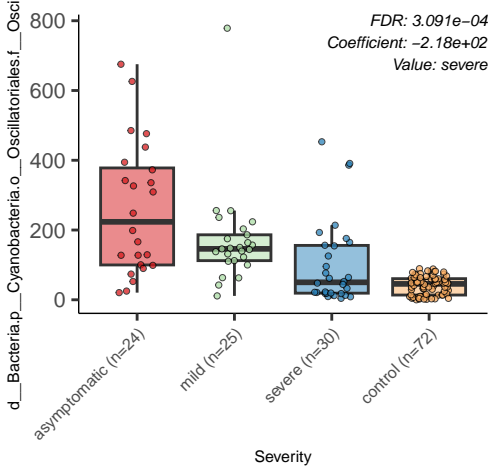




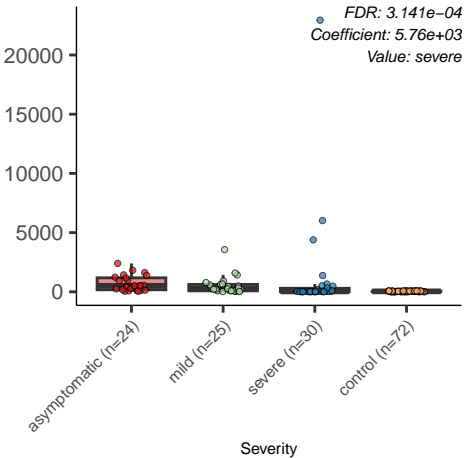




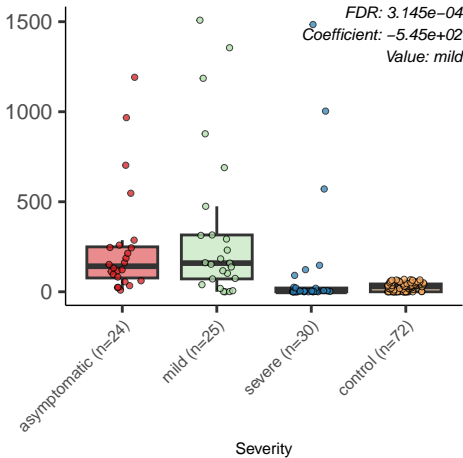


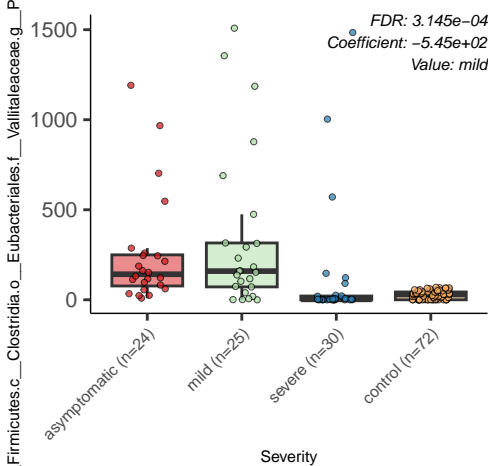


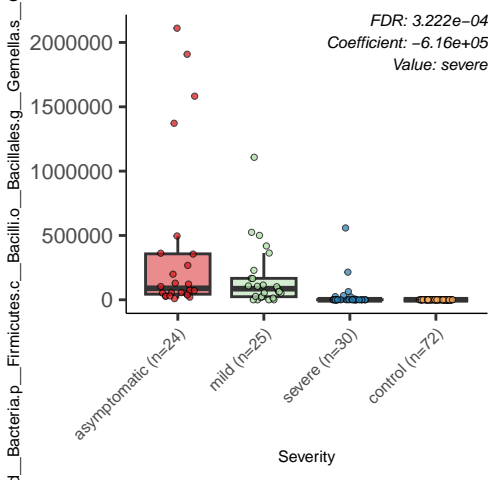
cteria.p__Proteobacteria.c__Alphaproteobacteria.o__Hyphomicrob



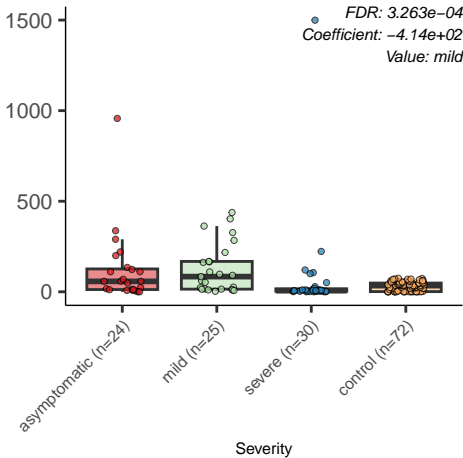
d_Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Valit



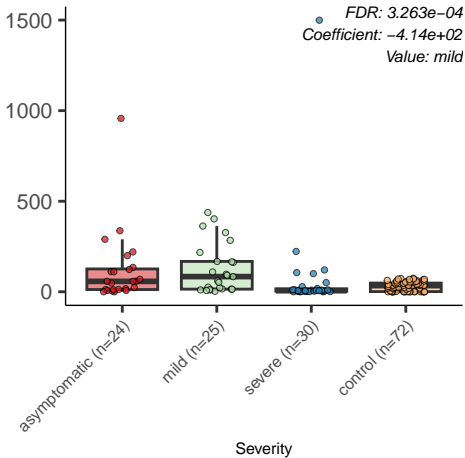


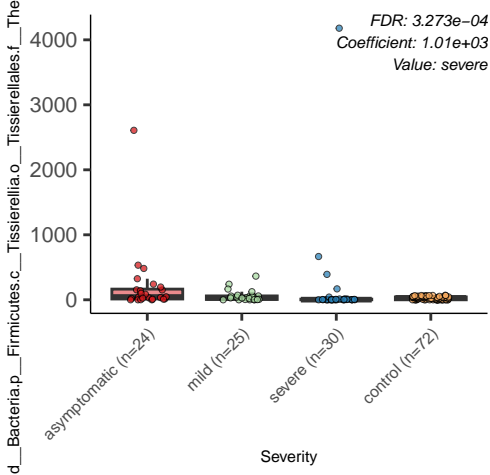


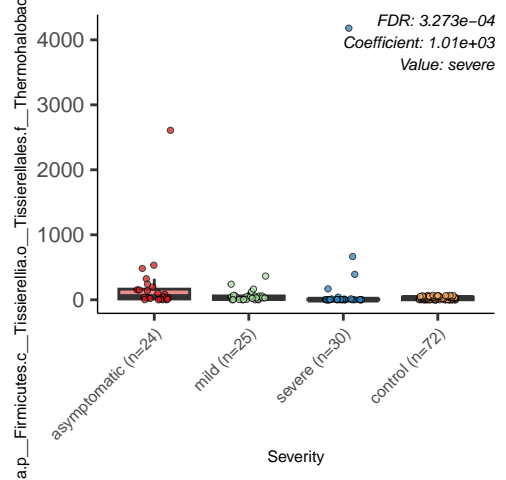
bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Oscillospira

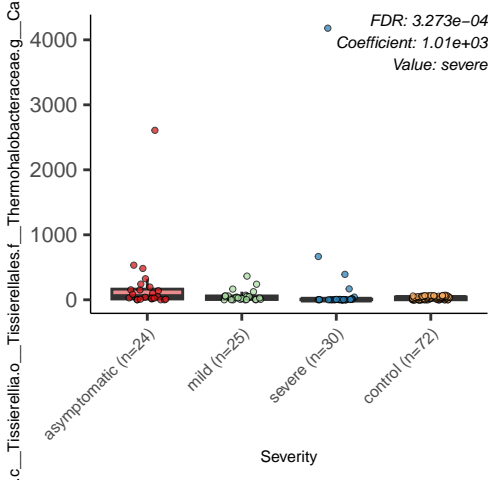


tes.c__Clostridia.o__Eubacteriales.f__Oscillospiraceae.g__Ruthenib



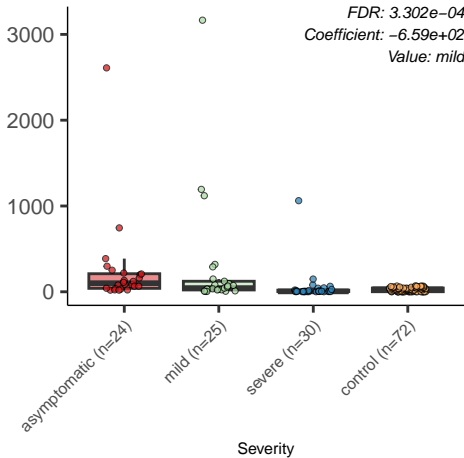


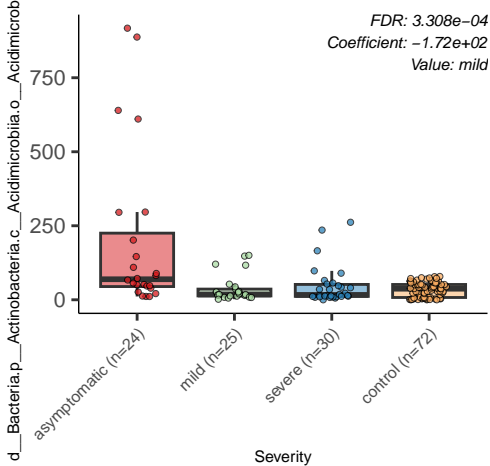




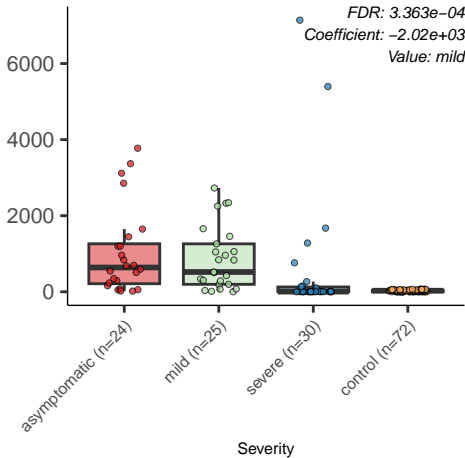
ia.p__Bacteroidetes.c__Chitinophagia.o__Chitinophagales.f__Chitin

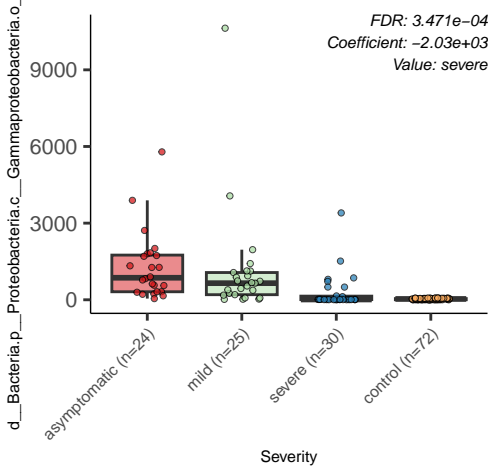
FDR: 3.302e-04
Coefficient: -6.59e+02
Value: mild

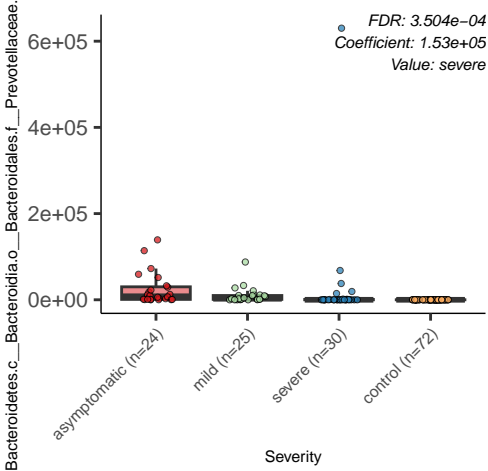


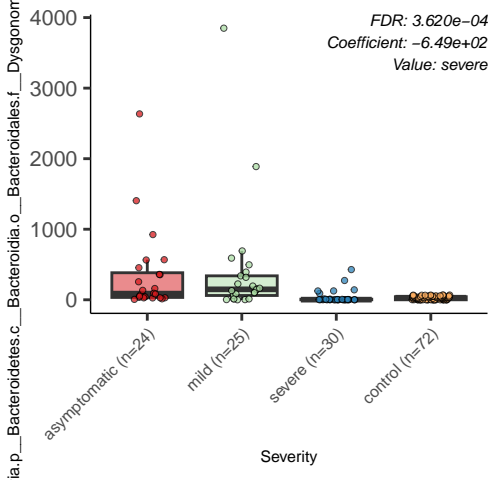


acteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnosp

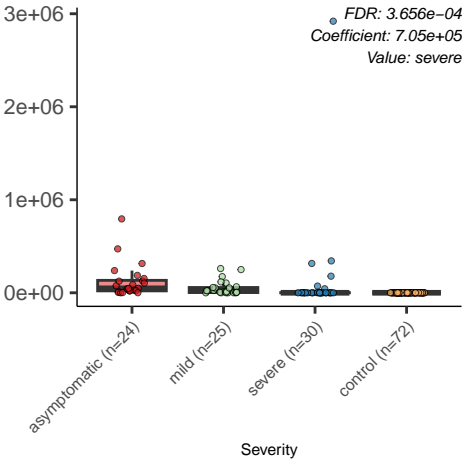




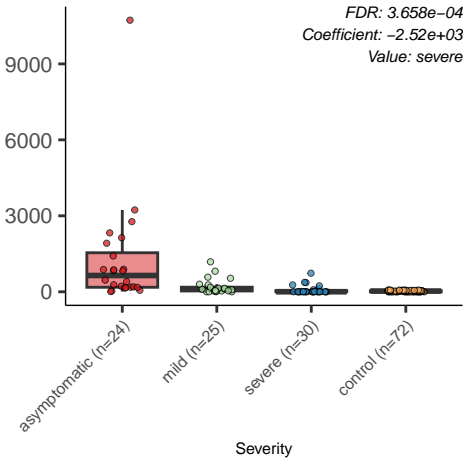




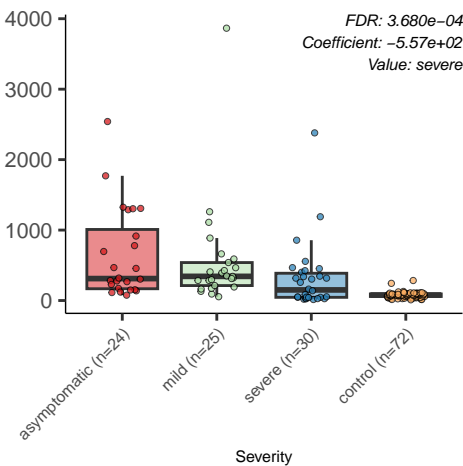
Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Prevotellaceae.g

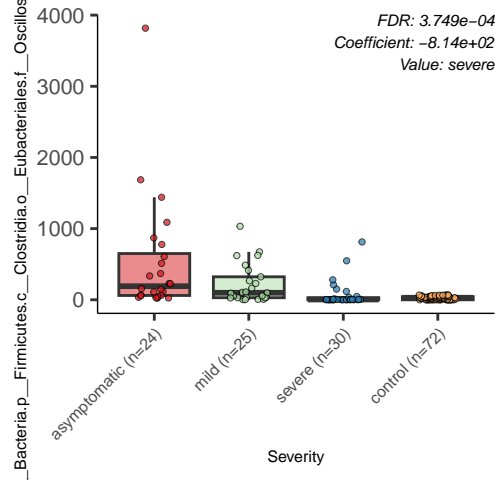


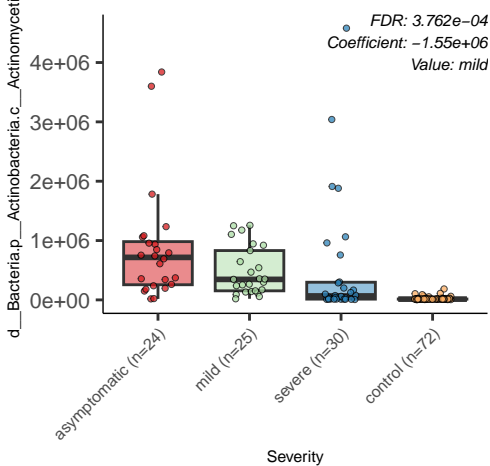
tes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Streptococcus



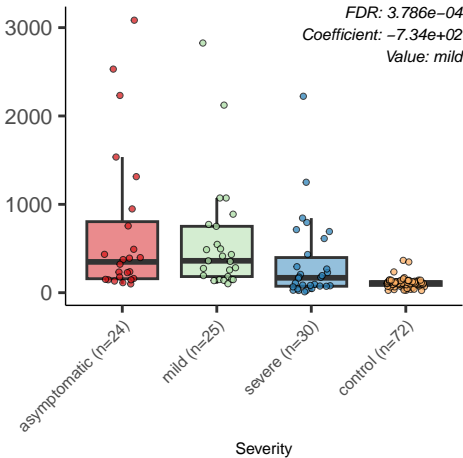
Bacteria.p__Cyanobacteria.o__Synechococcales.f__Synechococcales

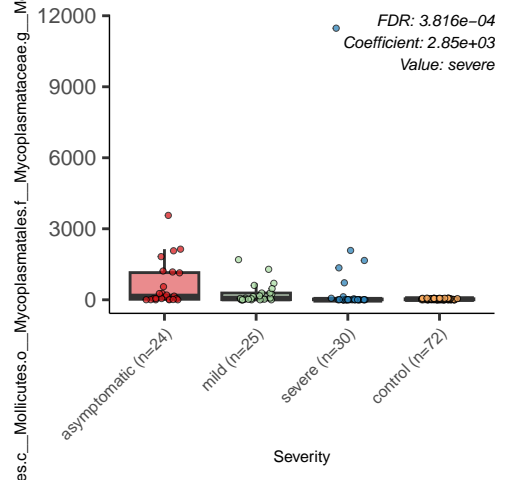


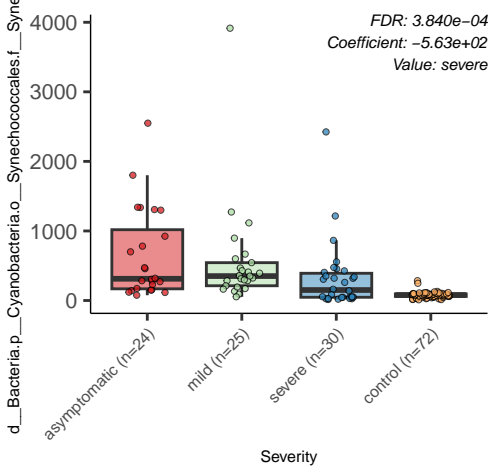


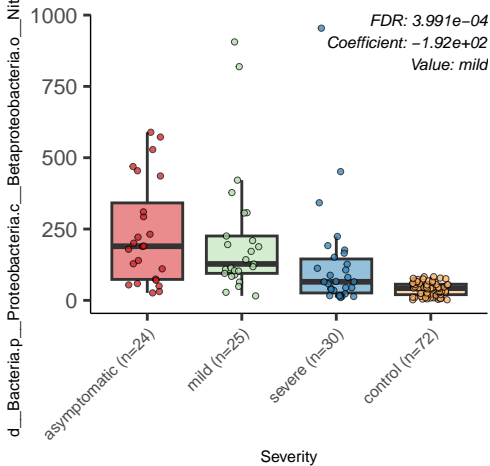


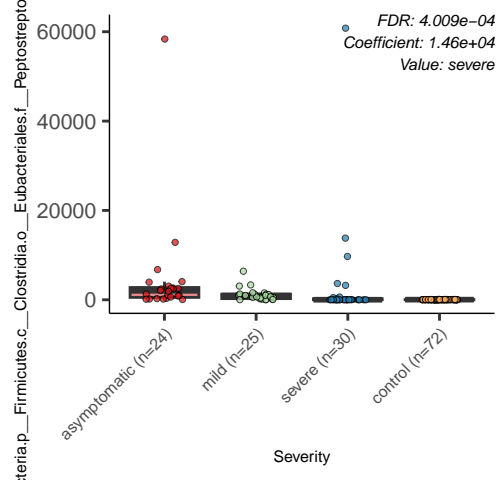
a.p._Proteobacteria.c_Alphaproteobacteria.o_Hyphomicrobiales.



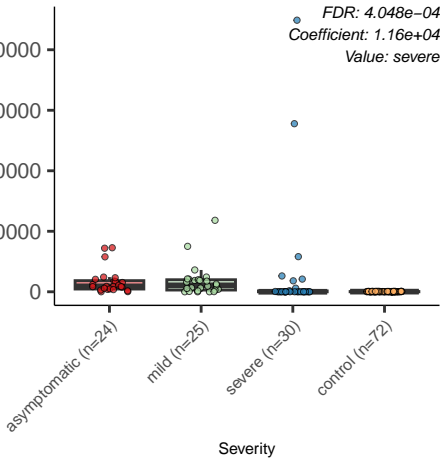


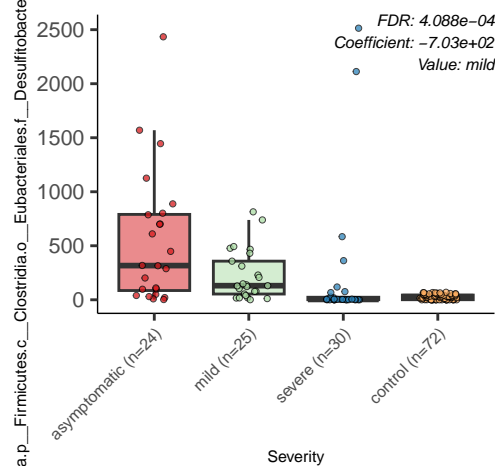


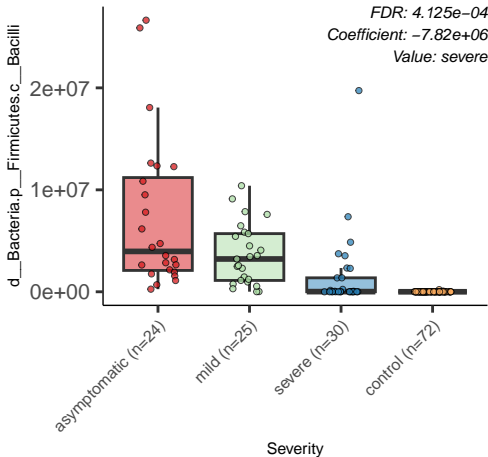




Bacteria.p_Firmicutes.c_Bacilli.o_Lactobacillales.f__Carnobacter







d_Bacteria.p__Chloroflexi

FDR: $4.372e-04$
Coefficient: $-2.20e+03$
Value: severe

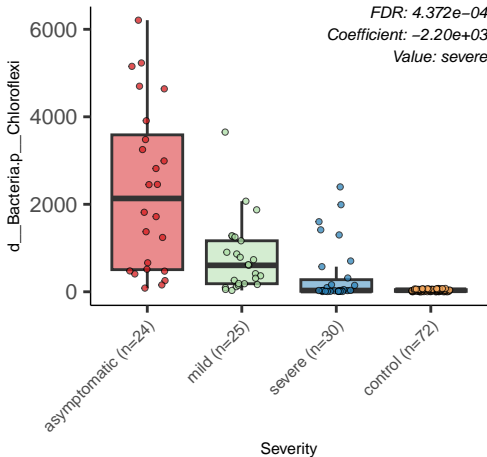
asymptomatic (n=24)

mild (n=25)

severe (n=30)

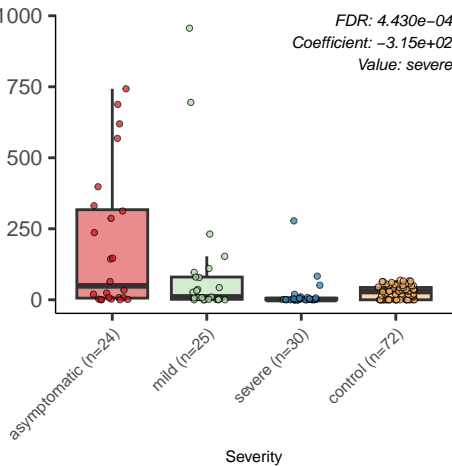
control (n=72)

Severity



e.c._Thermotogae.o_Thermotogales.f_Thermotogaceae.g_Pse

FDR: $4.430e-04$
Coefficient: $-3.15e+02$
Value: severe



d_Bacteria.p_Gemmatimonadetes

FDR: 4.489×10^{-4}
Coefficient: -4.37×10^2
Value: mild

1000

500

0

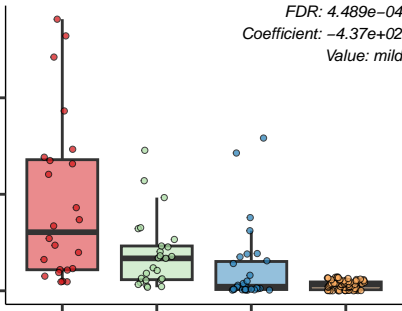
asymptomatic (n=24)

mild (n=25)

severe (n=30)

control (n=72)

Severity



d_Bacteria.p_Gemmatimonadetes.c_Gemmatimonadetes

1000

500

0

asymptomatic (n=24)

mild (n=25)

severe (n=30)

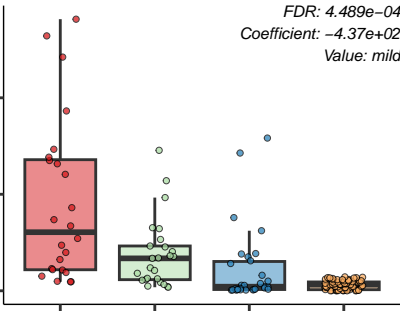
control (n=72)

Severity

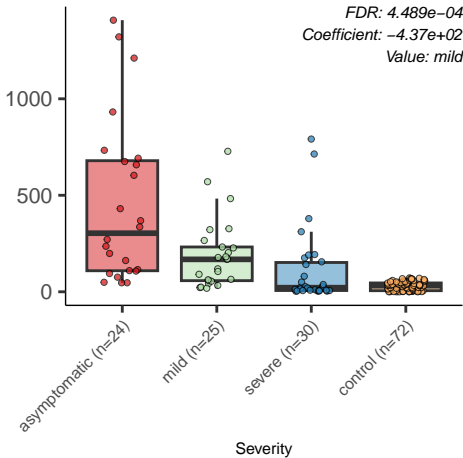
FDR: 4.489×10^{-4}

Coefficient: -4.37×10^2

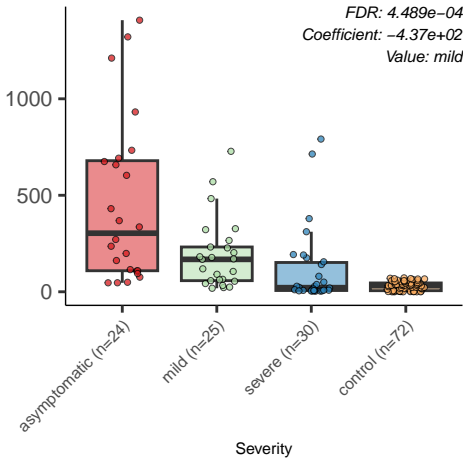
Value: mild

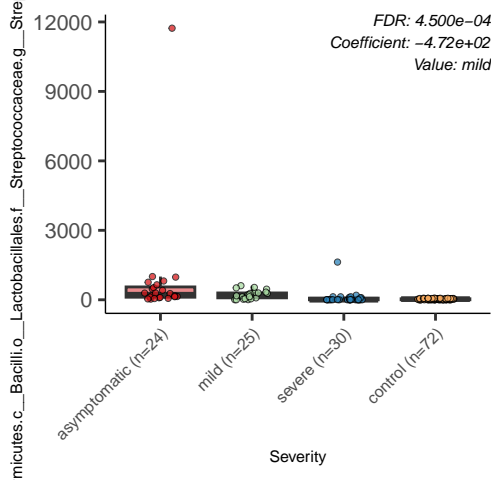


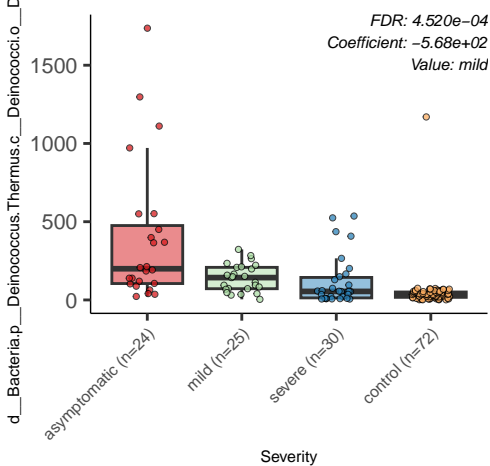
d_Bacteria.p_Gemmatimonadetes.c_Gemmatimonadetes.o_o

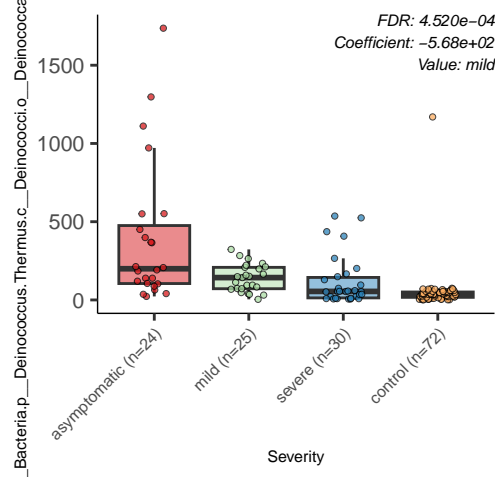


a.p__Gemmatimonadetes.c__Gemmatimonadetes.o__Gemmatimon



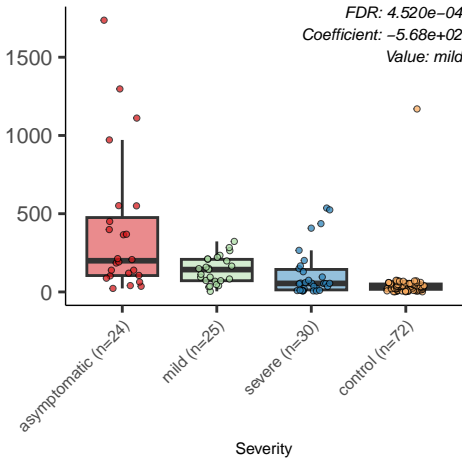


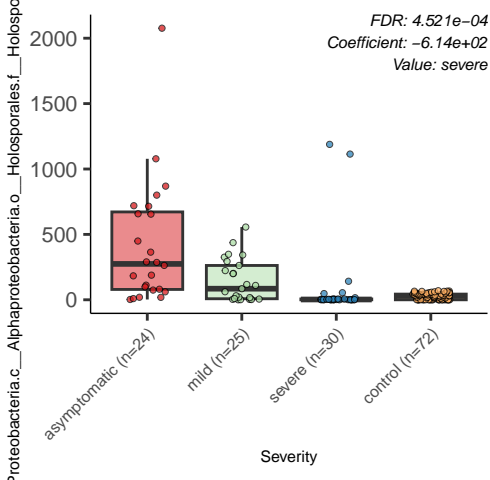


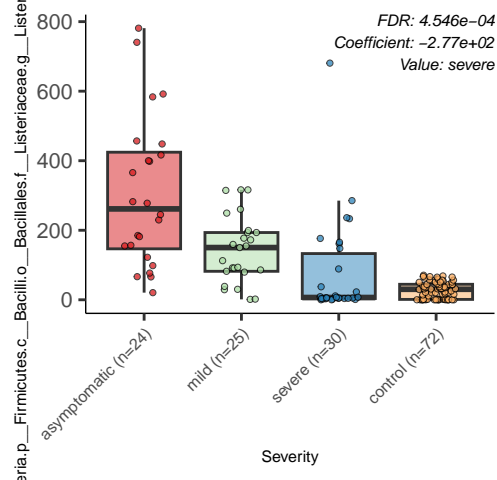


a.p_Deinococcus.Thermus.c_Deinococci.o_Deinococcales.f_D

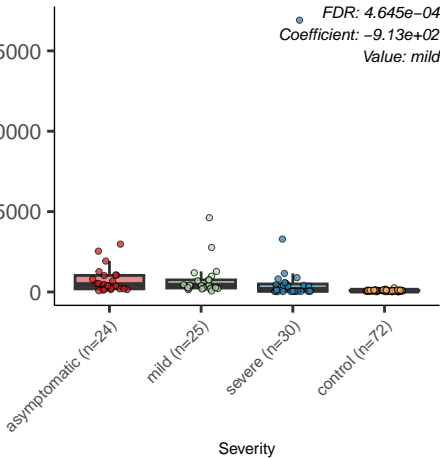
FDR: 4.520e-04
Coefficient: -5.68e+02
Value: mild

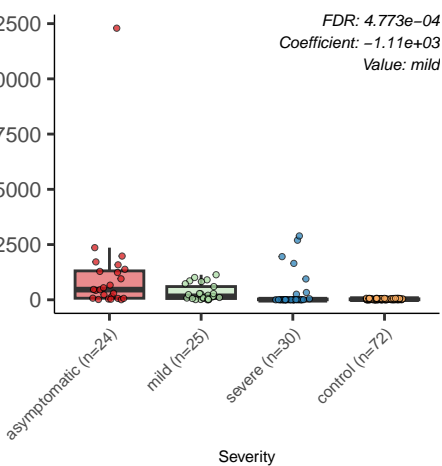




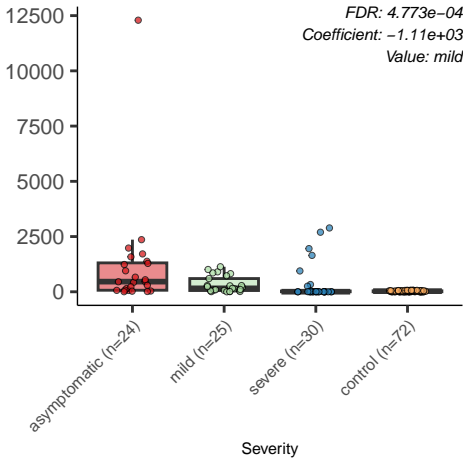


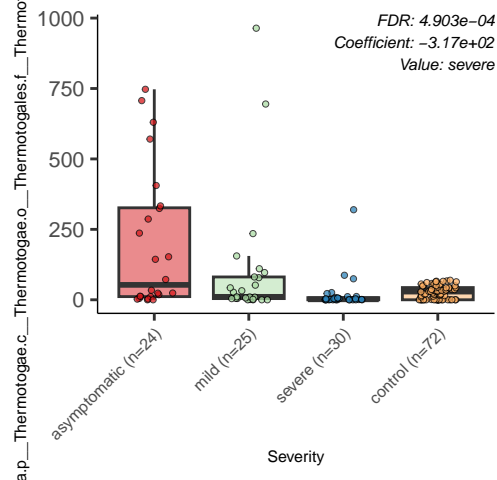
Firmicutes.c_Clostridia.o_Eubacteriales.f_Clostridiaceae.g_O





Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g





Firmicutes.c__Clostridia.o__Eubacteriales.f__Clostridiaceae.g__

FDR: 4.926e-04
Coefficient: -3.66e+02
Value: mild

1000

500

0

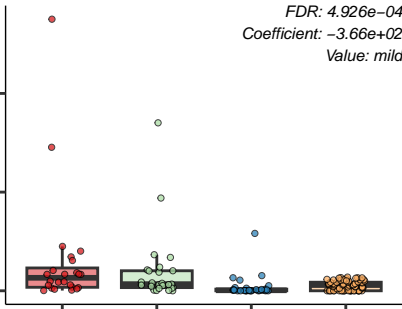
asymptomatic (n=24)

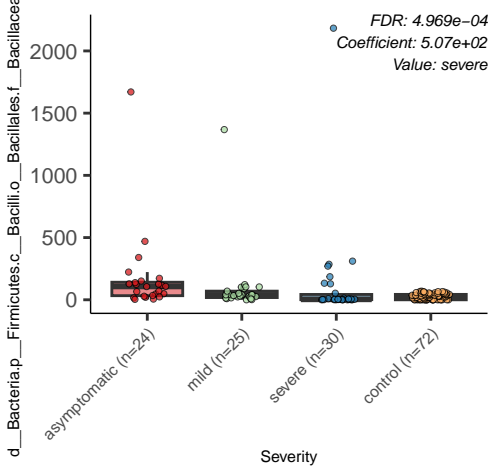
mild (n=25)

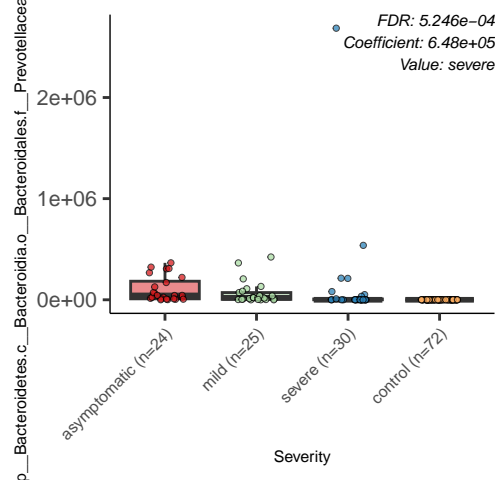
severe (n=30)

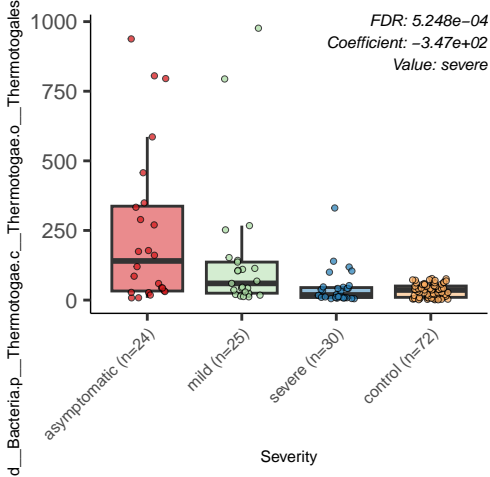
control (n=72)

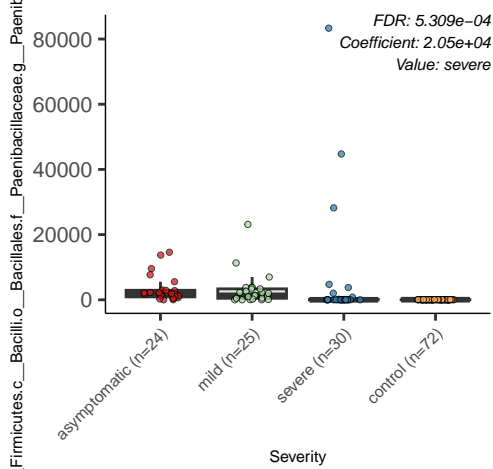
Severity



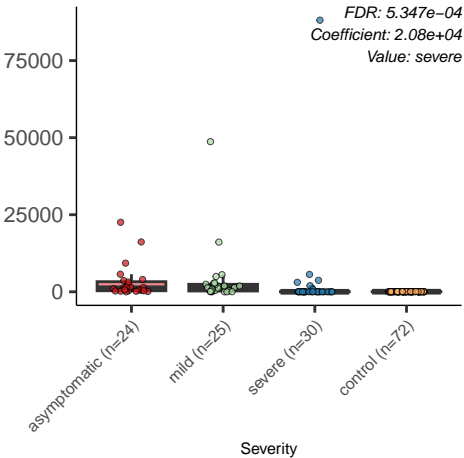




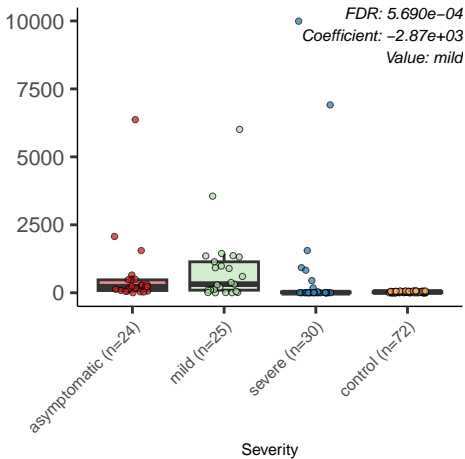


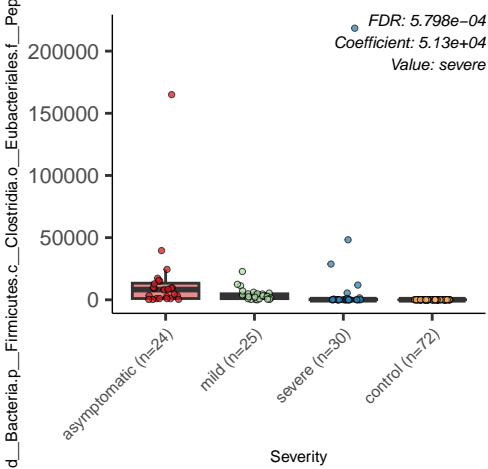


Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Prevotellaceae.g

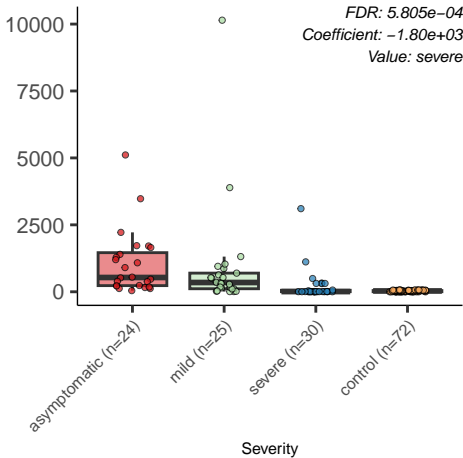


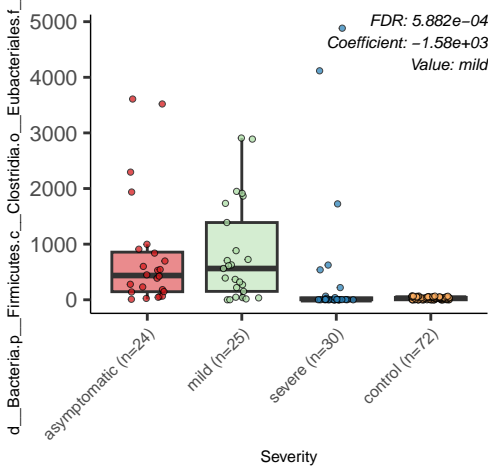
icutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__Med



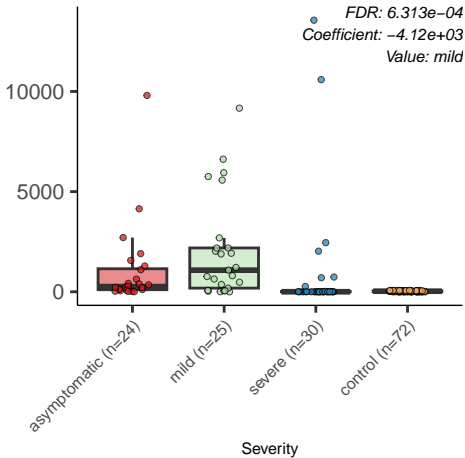


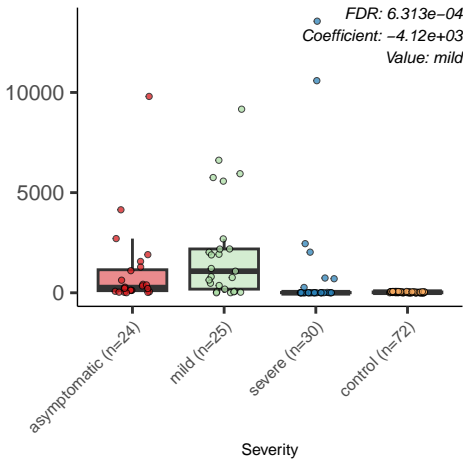
Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiotricha

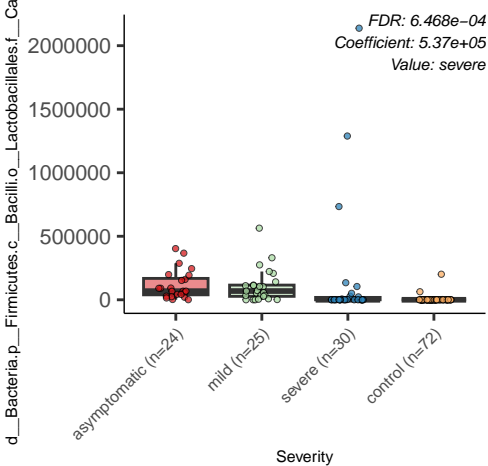




Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnos

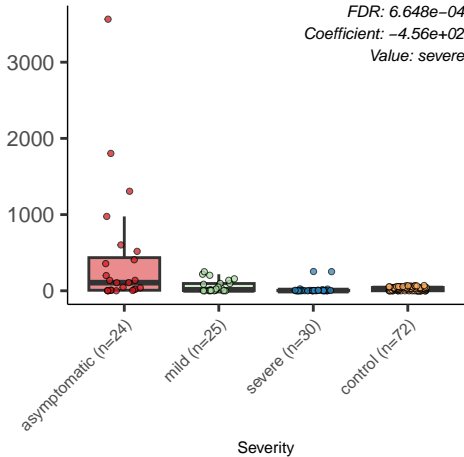


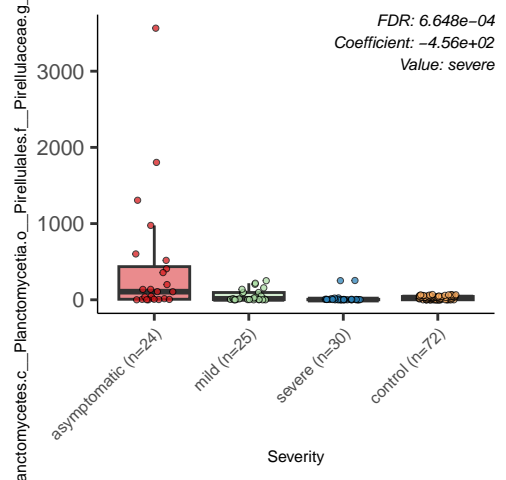




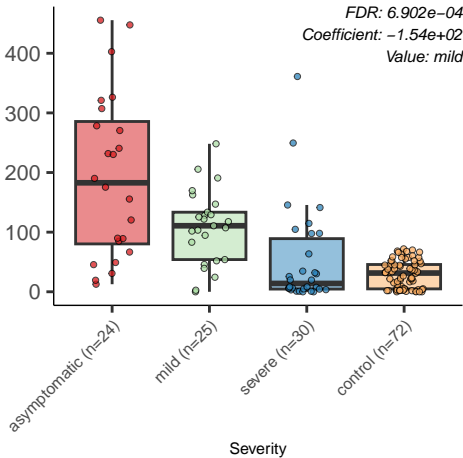
Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f__F

FDR: 6.648e-04
Coefficient: -4.56e+02
Value: severe

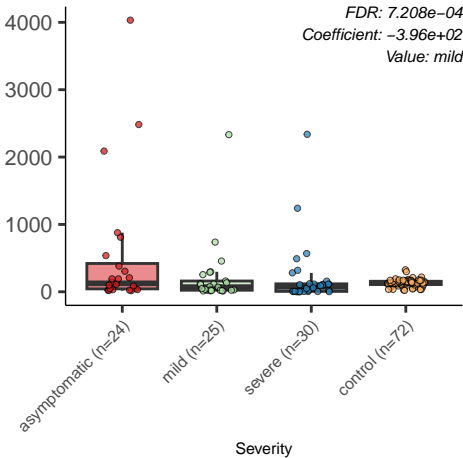




d_Bacteria.p_Cyanobacteria.o_Oscillatoriales.f_Oscillatoria



Gammaproteobacteria.o__Pseudomonadales.f__Pseudomonadaceae



irmicutes.c__Bacilli.o__Lactobacillales.f__Carnobacteriaceae.g__G

1500000

1000000

500000

0

FDR: 7.252e-04

Coefficient: 4.26e+05

Value: severe

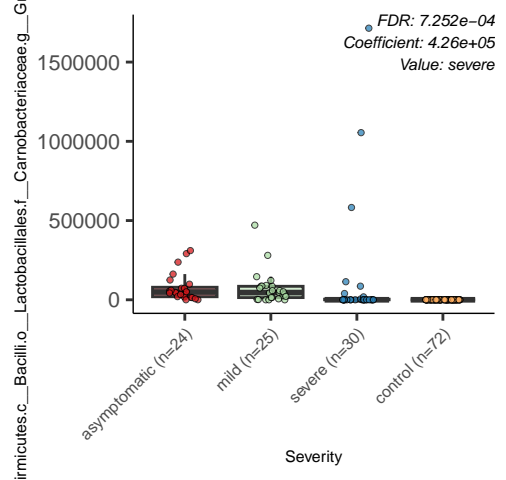
asymptomatic (n=24)

mild (n=25)

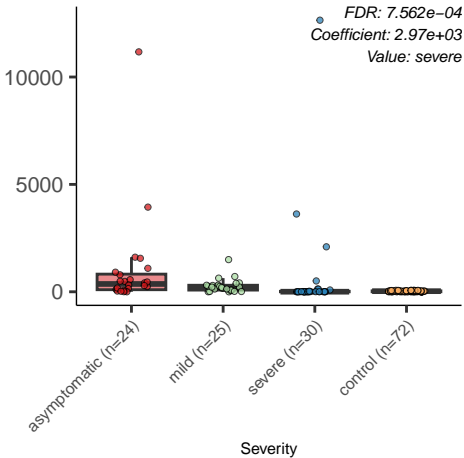
severe (n=30)

control (n=72)

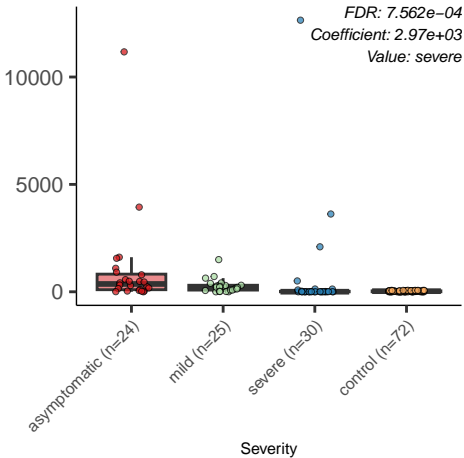
Severity

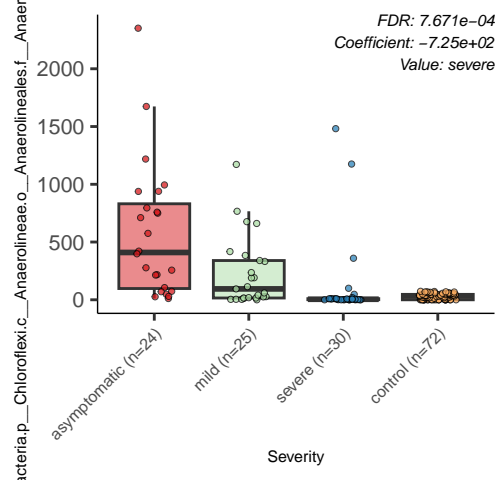


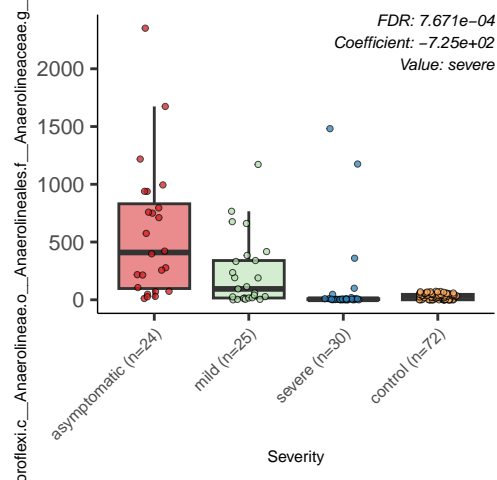
acteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Peptostrept

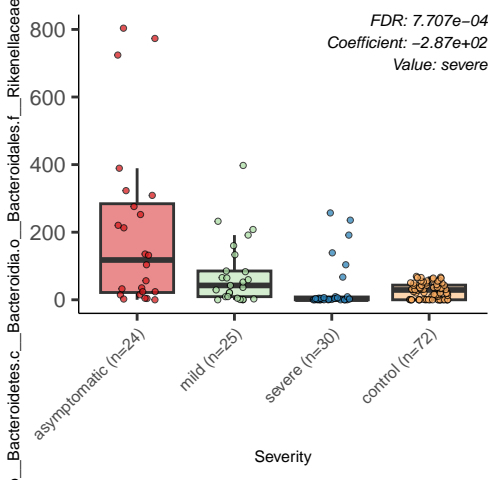


nicutes.c__Clostridia.o__Eubacteriales.f__Peptostreptococcaceae.g

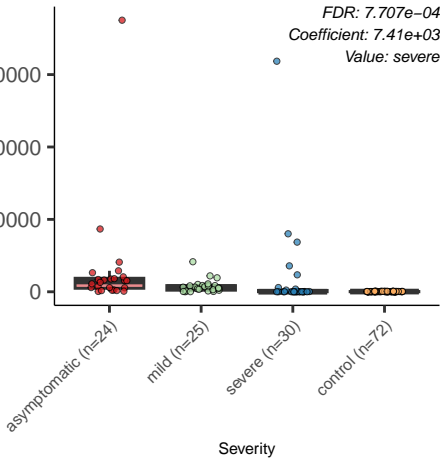




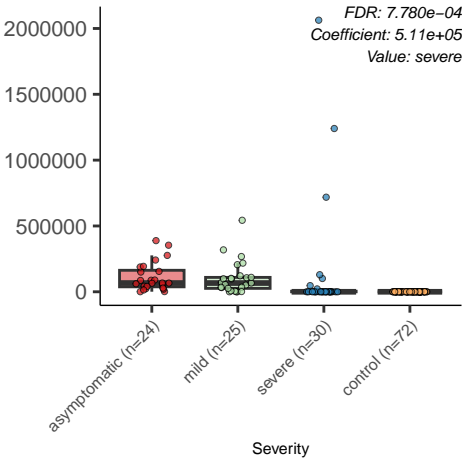




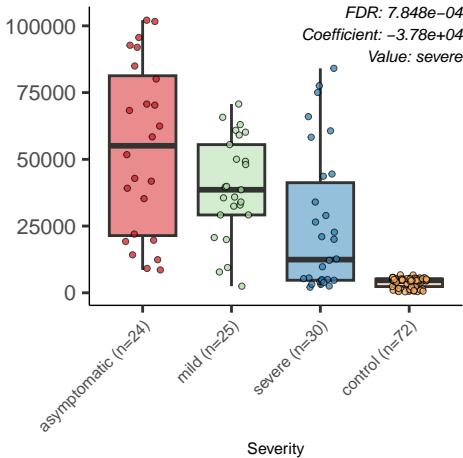
nicutes.c__Clostridia.o__Eubacteriales.f__Peptostreptococcaceae.g

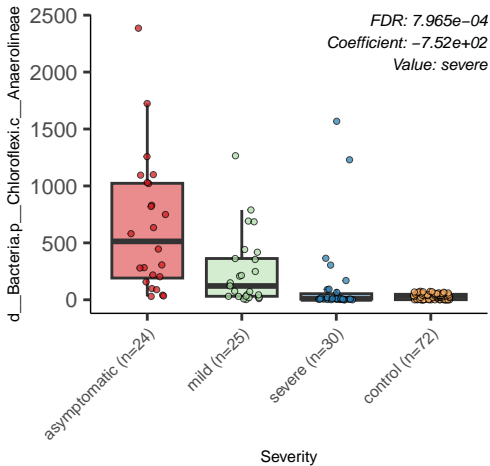


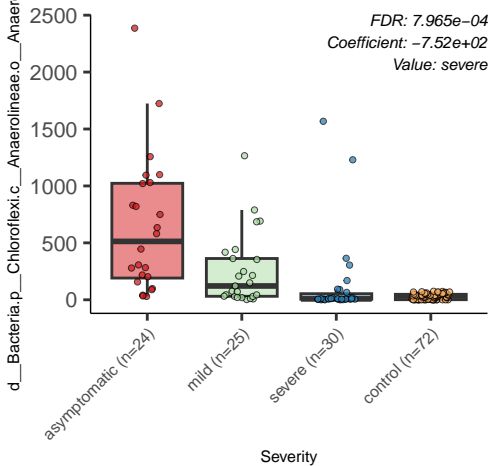
Bacteria.p_Firmicutes.c_Bacilli.o_Lactobacillales.f_Carnobacter

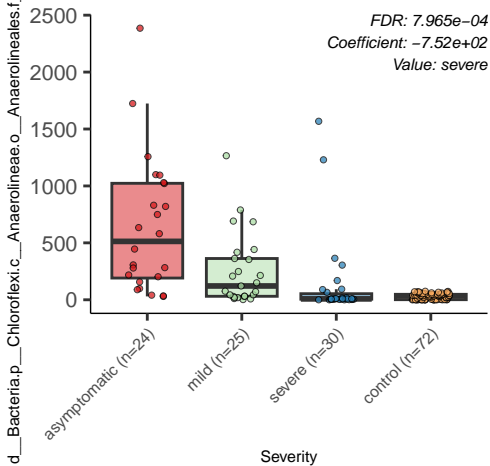


d__Bacteria.p__Proteobacteria.c__Alphaproteobac

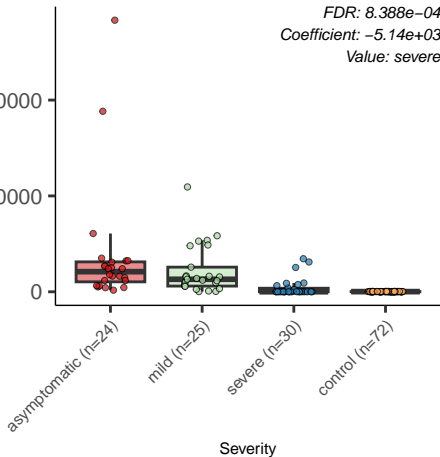


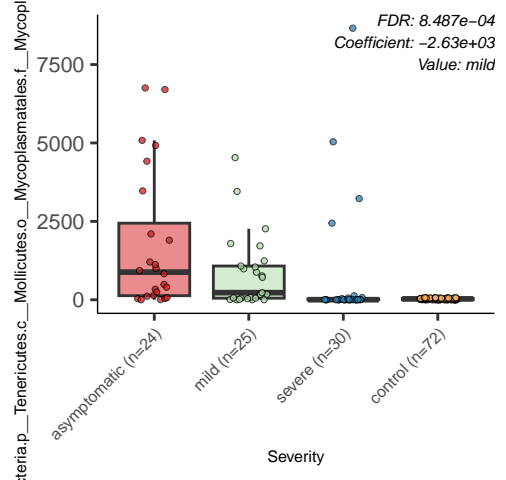






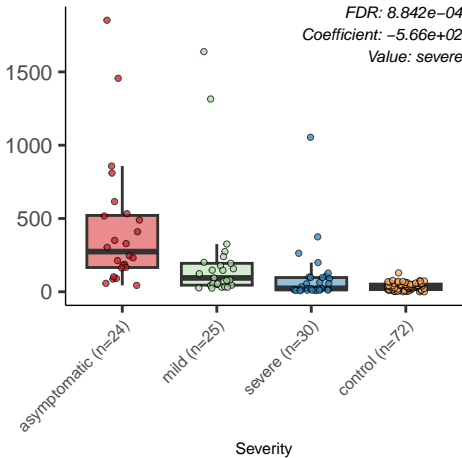
FDR: $8.388e-04$
Coefficient: $-5.14e+03$
Value: severe



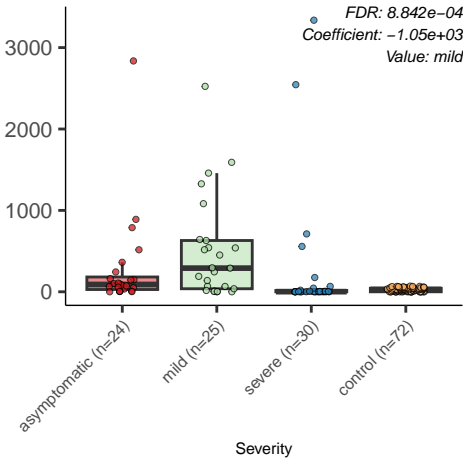


_Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillum

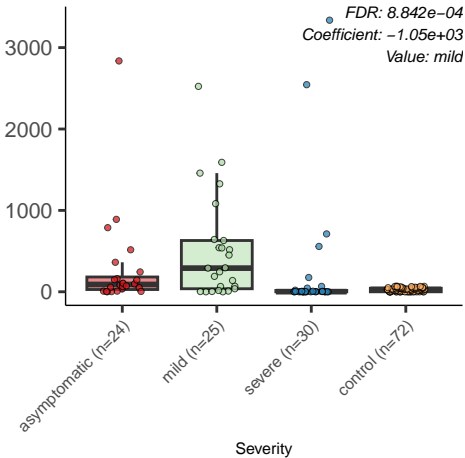
FDR: 8.842e-04
Coefficient: -5.66e+02
Value: severe

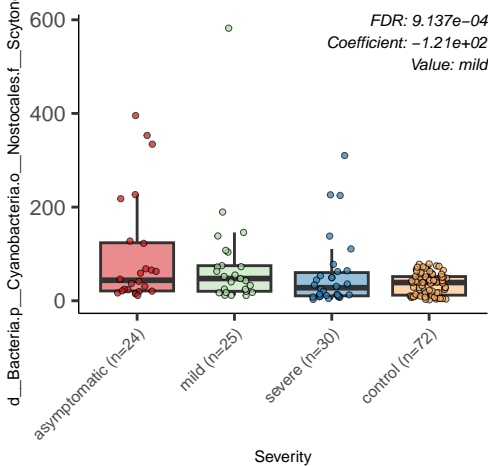


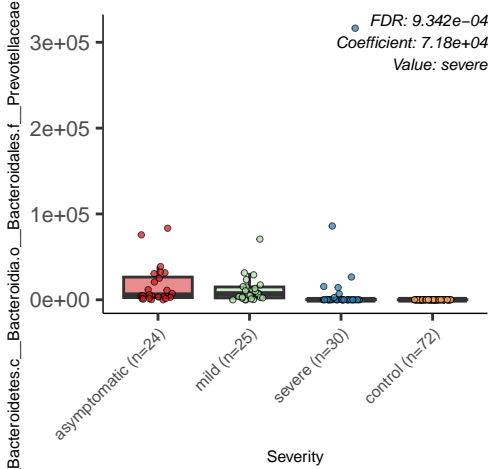
Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnosp

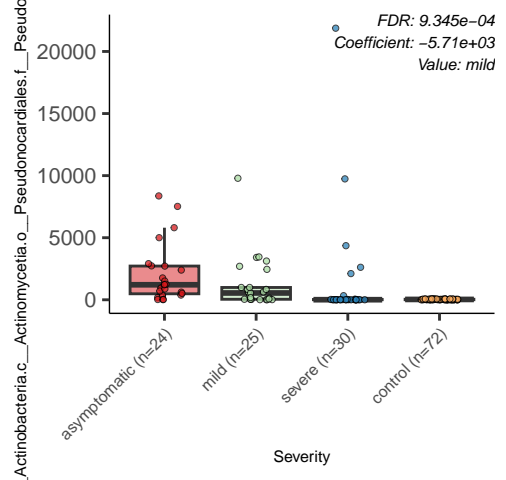


tes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__Faecalib



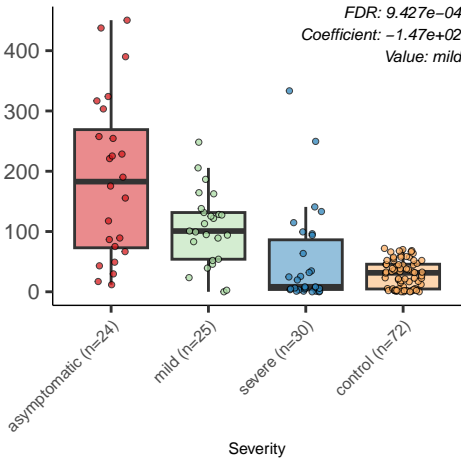




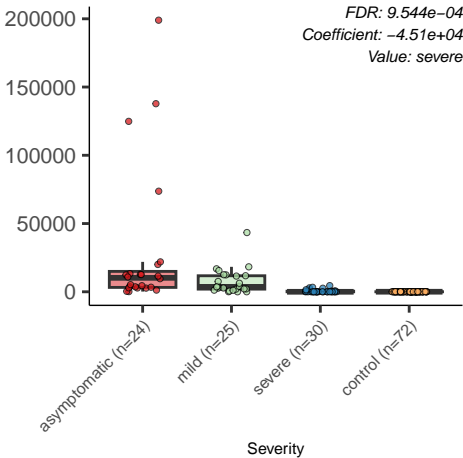


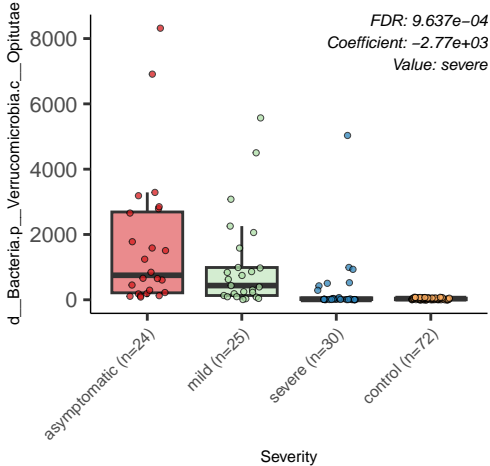
a.p__Cyanobacteria.o__Oscillatoriales.f__Oscillatoriaceae.g__Oscil

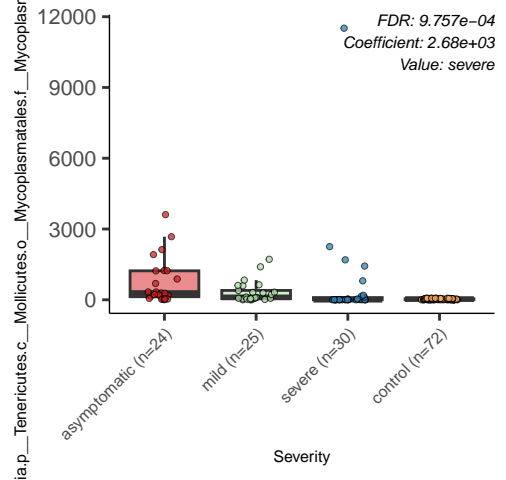
FDR: $9.427e-04$
Coefficient: $-1.47e+02$
Value: mild



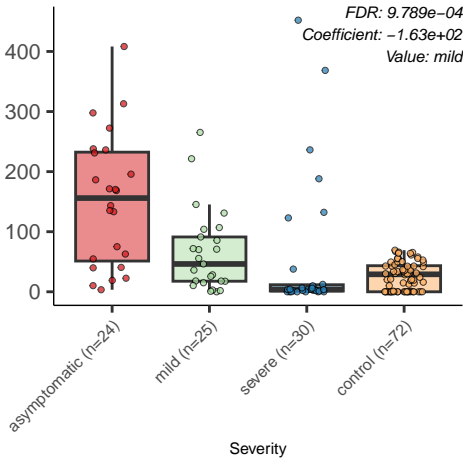
Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Str



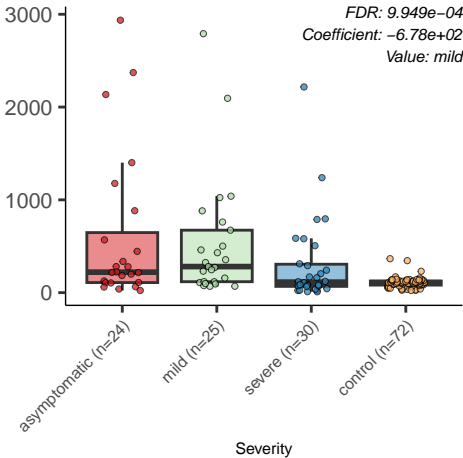




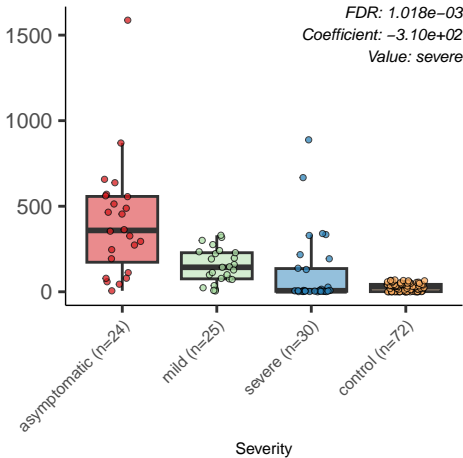
p_Firmicutes.c_Clostridia.o_Thermoanaerobacterales.f_Therm

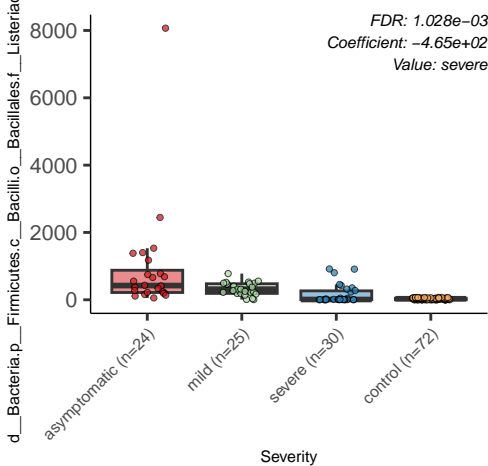


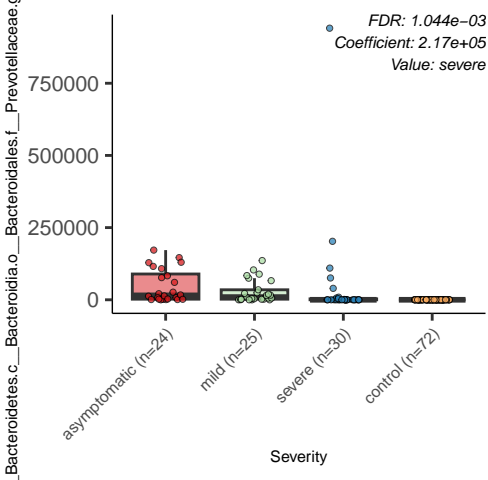
a.c._Alphaproteobacteria.o__Hyphomicrobiales.f__Rhizobiaceae.g



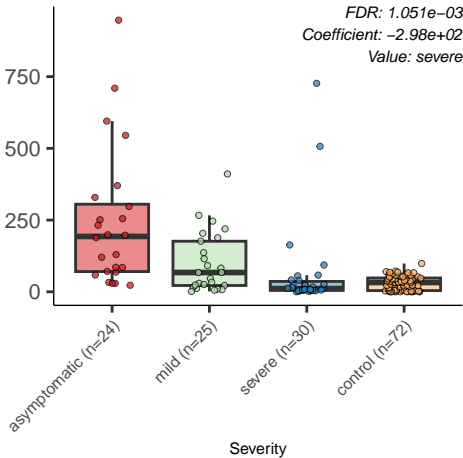
d_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Thermo

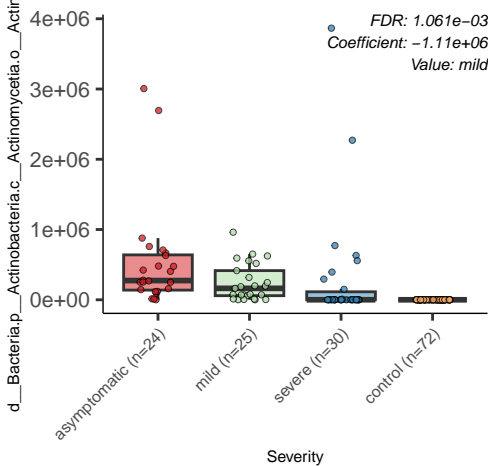


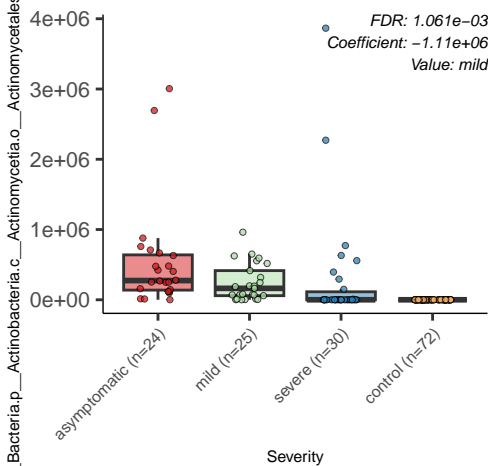


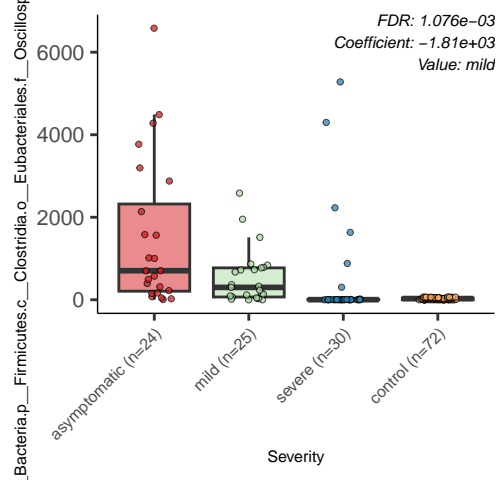


Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxococ

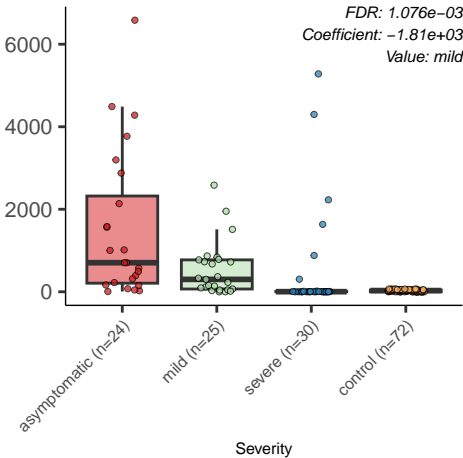


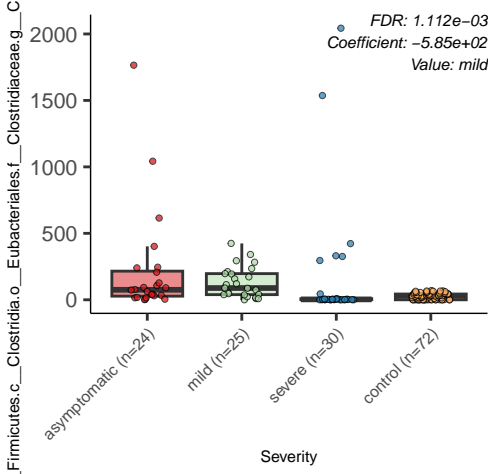




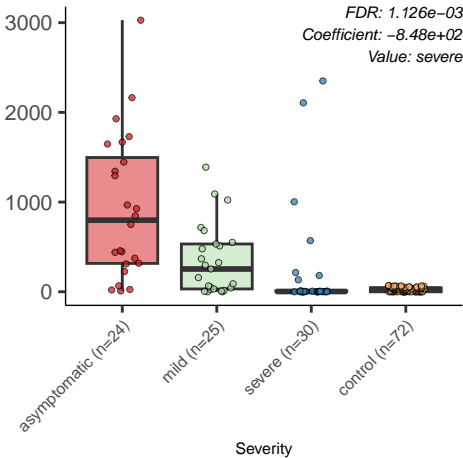


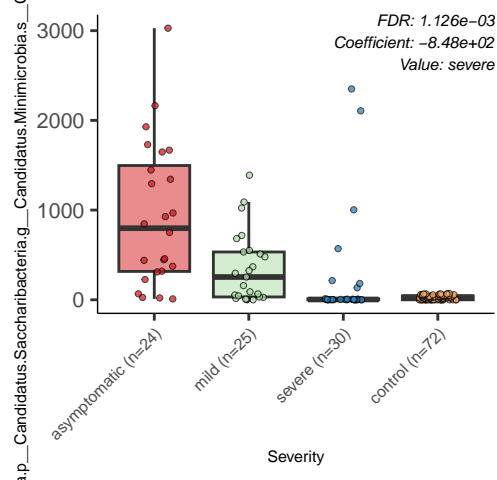
irmicutes.c__Clostridia.o__Eubacteriales.f__Oscillospiraceae.g__Mo

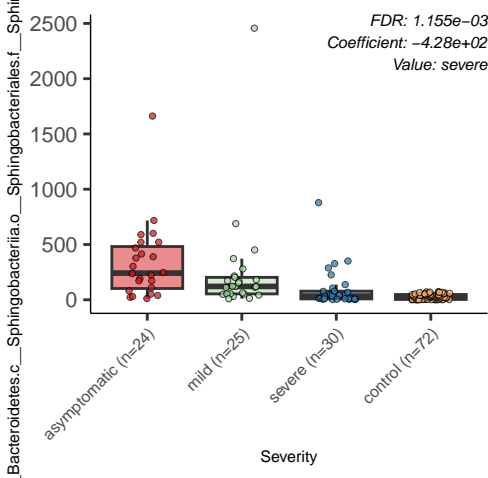


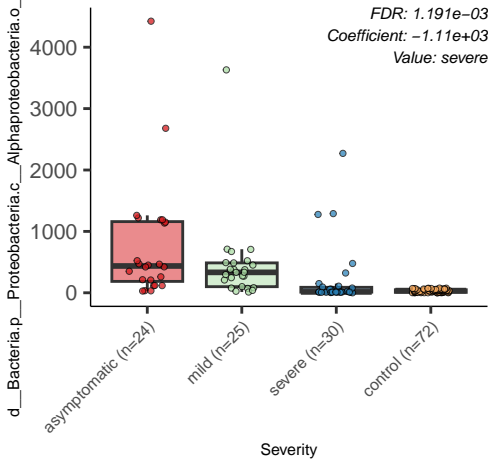


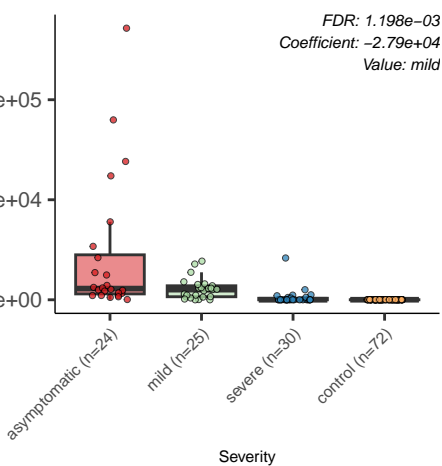
d_Bacteria.p_Candidatus.Saccharibacteria.g_Candidatus

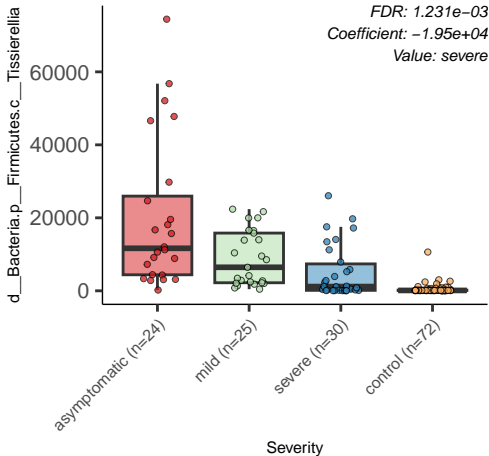




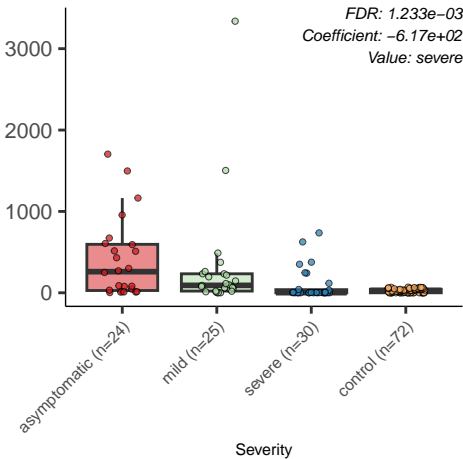


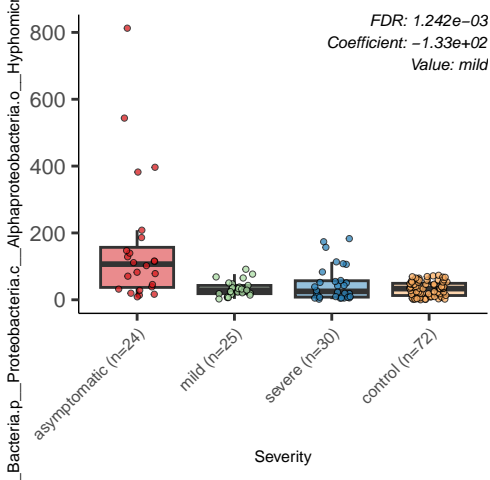




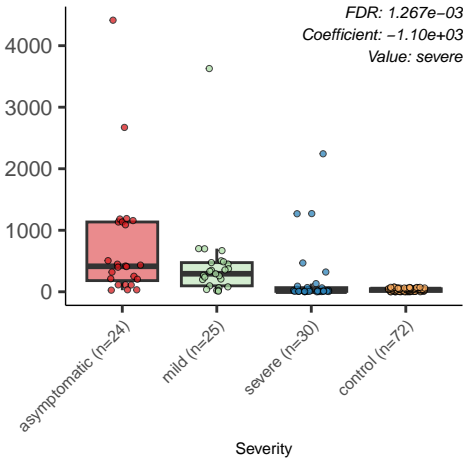


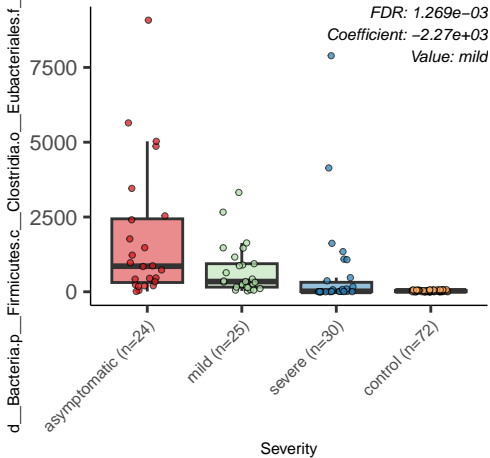
Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Muribaculaceae.g

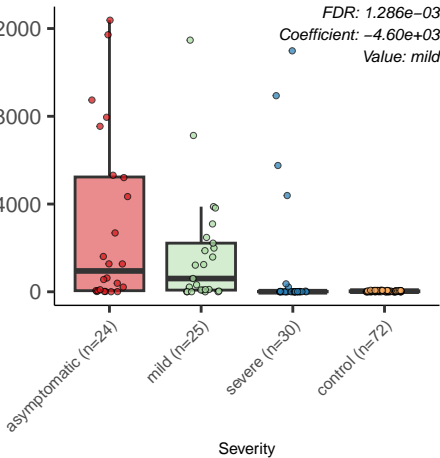


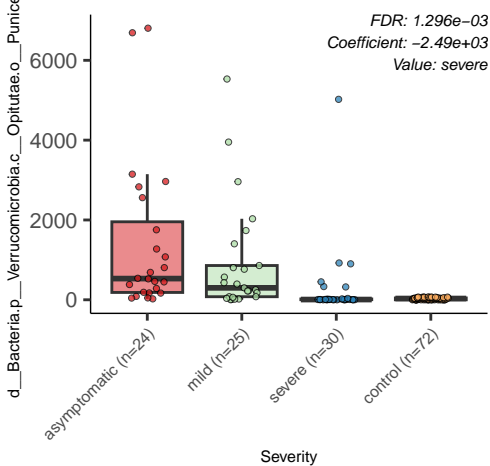


Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Holospor

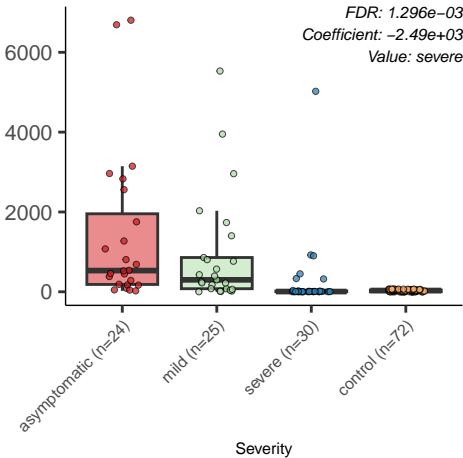




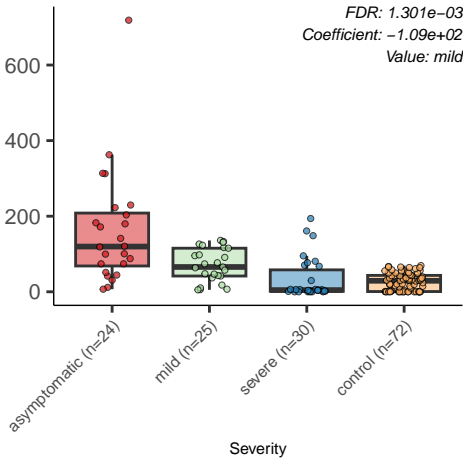




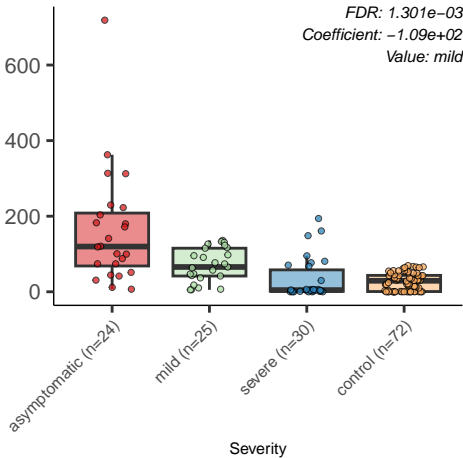
d_Bacteria.p__Verrucomicrobia.c__Opitutae.o__Puniceicoccales.f



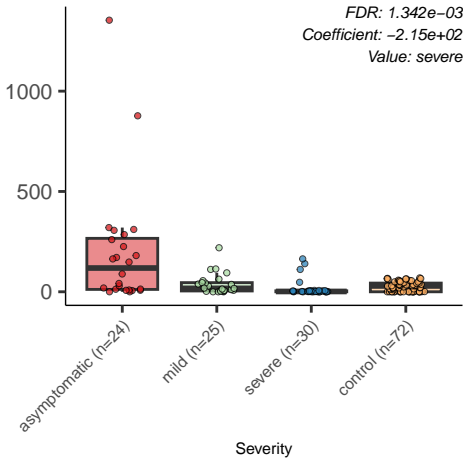
d_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Bacillaceae



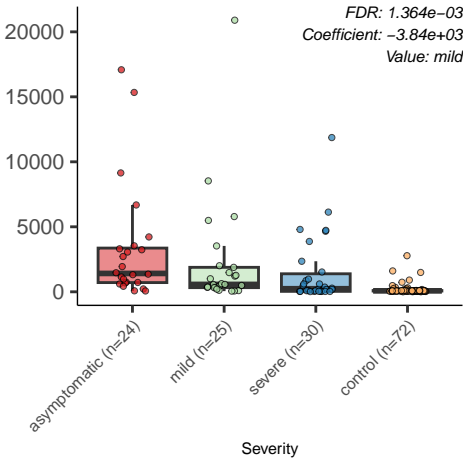
ia.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__Weizma



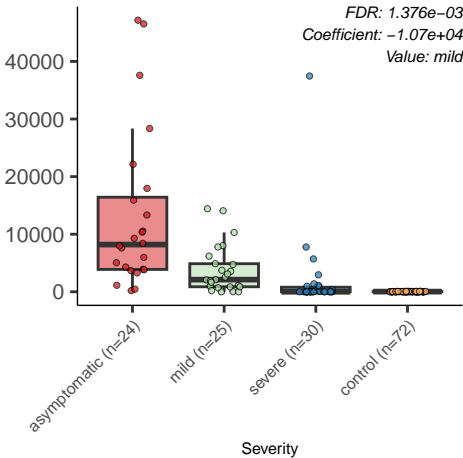
eria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Synergis



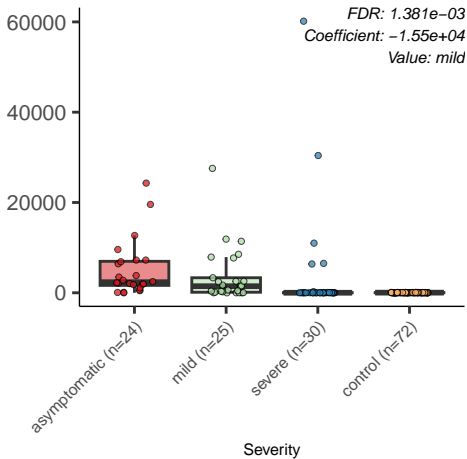
Bacteria.p_Firmicutes.c_Tissierellia.o_Tissierellales.f_Peptoni

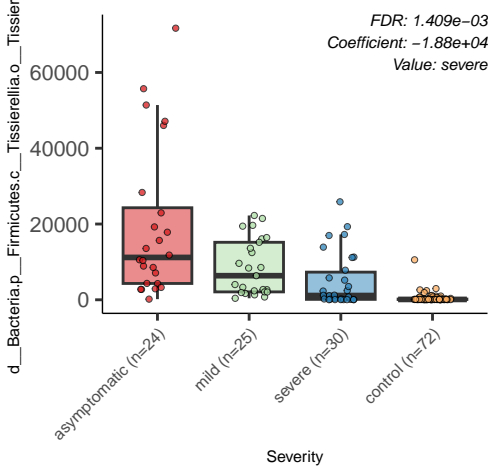


Firmicutes.c_Bacilli.o_Lactobacillales.f_Streptococcaceae.g

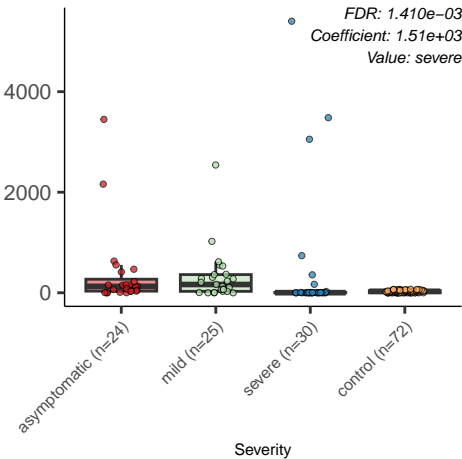


bacteria.c_Actinomycetia.o_Actinomycetales.f_Actinomycetaceae

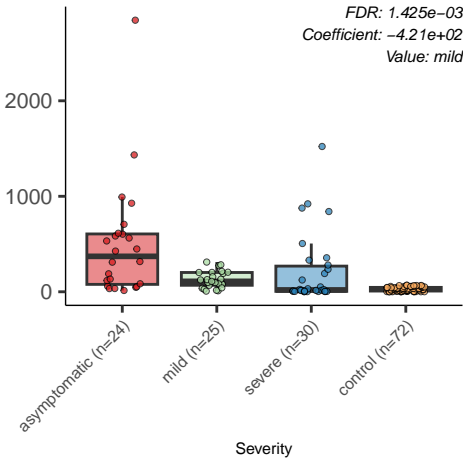


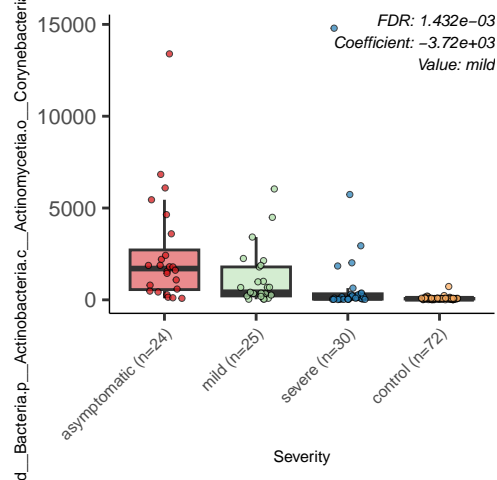


Firmicutes.c_Clostridia.o_Eubacteriales.f_Clostridiaceae.g

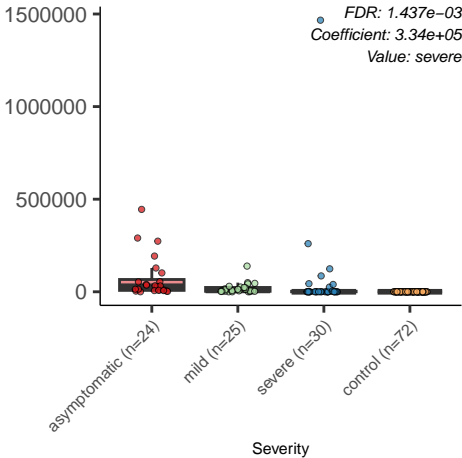


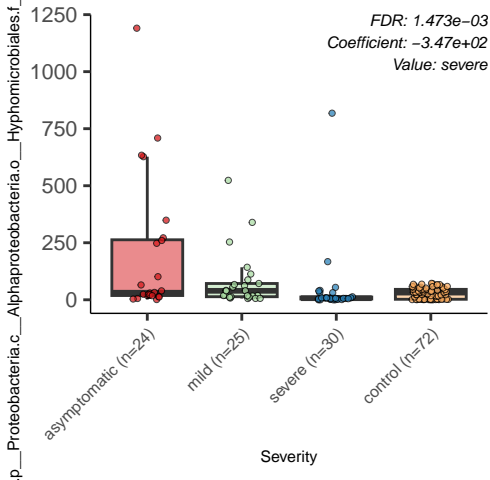
d_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Bacillaceae



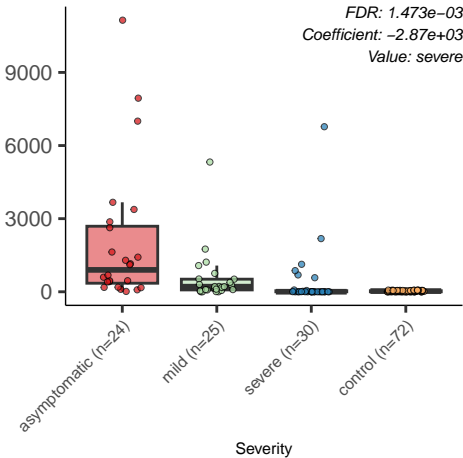


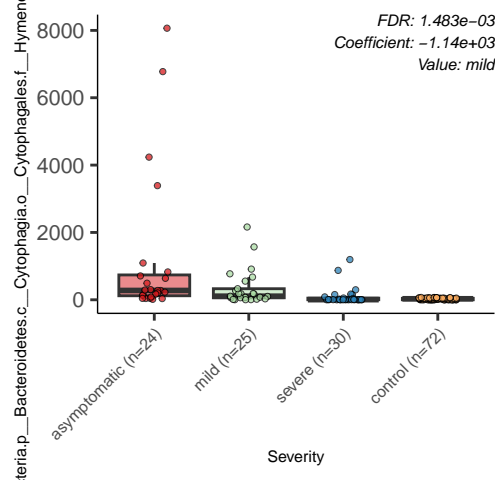
Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Prevotellaceae.g

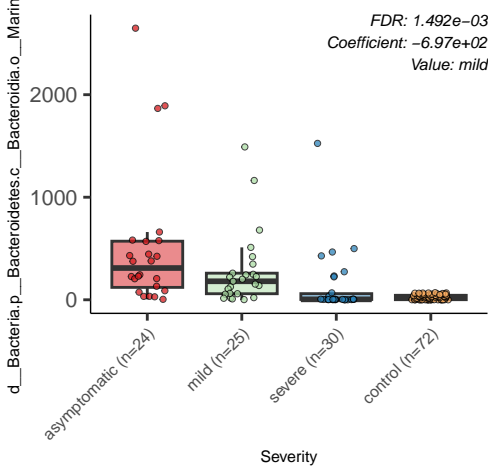


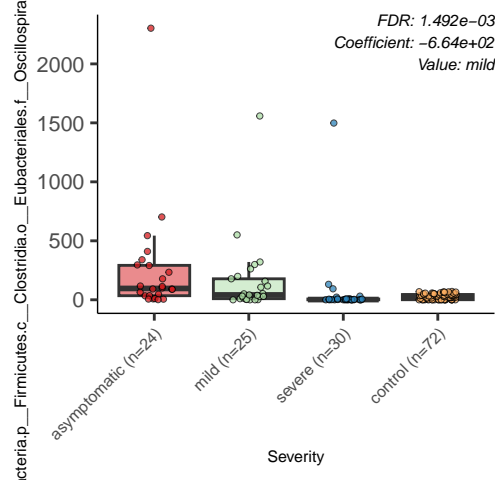


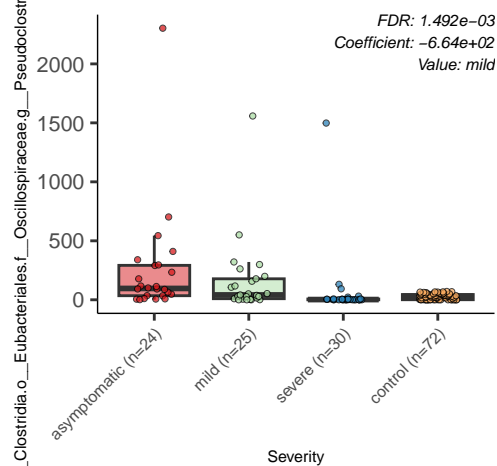
c_Negativicutes.o__Selenomonadales.f__Selenomonadaceae.g__S











d__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Marinilabiales.

1000

500

0

asymptomatic (n=24)

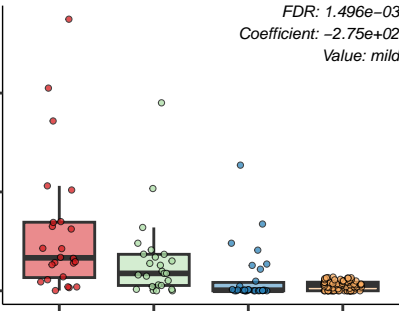
mild (n=25)

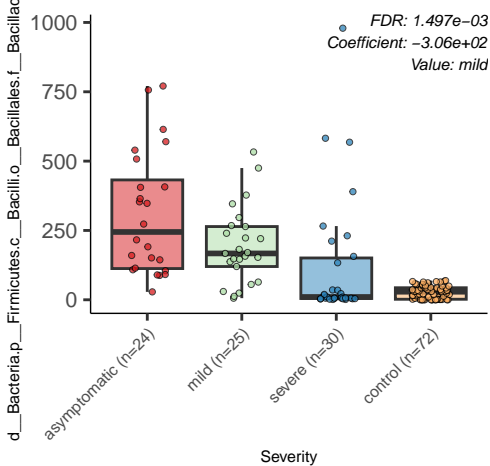
severe (n=30)

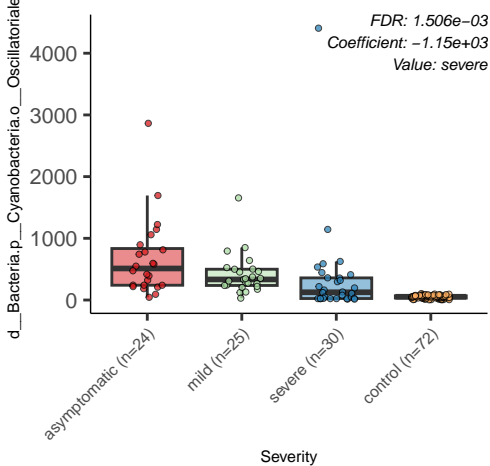
control (n=72)

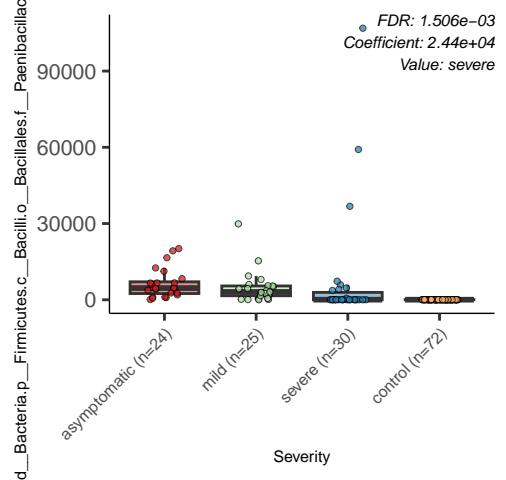
Severity

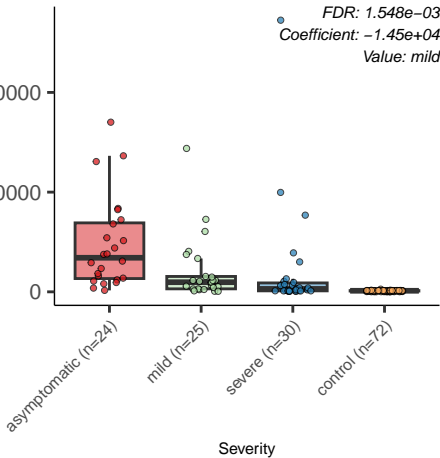
FDR: $1.496e-03$
Coefficient: $-2.75e+02$
Value: mild

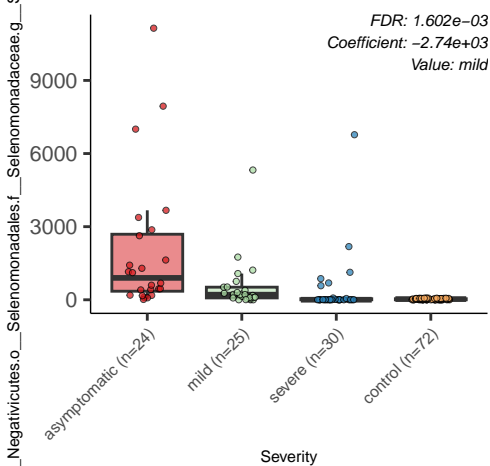




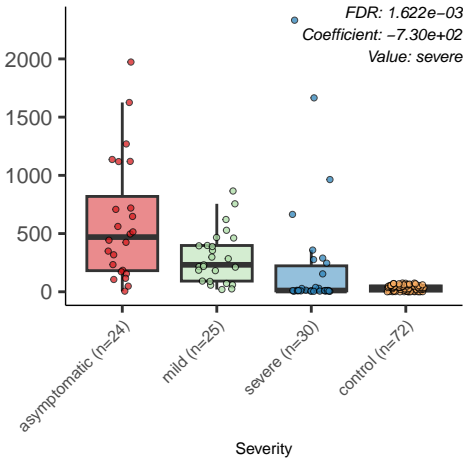




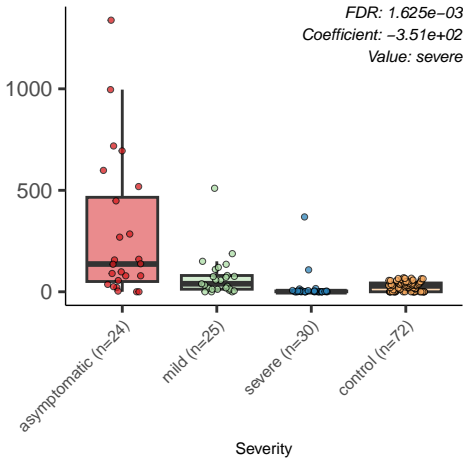




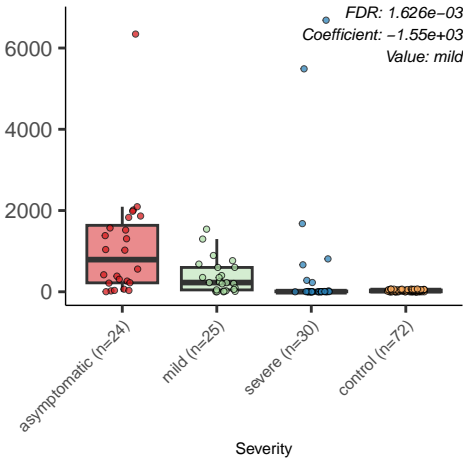
acteria.p__Proteobacteria.c__Gammaproteobacteria.o__Alteromon



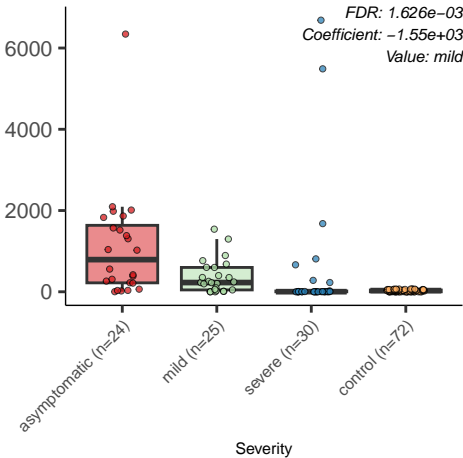
a.c_Fusobacteriia.o_Fusobacteriales.f_Fusobacteriaceae.g_Fu



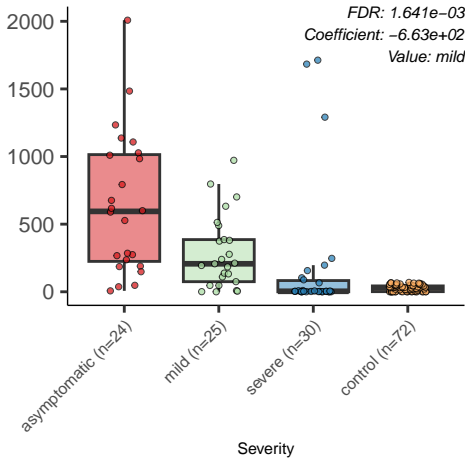
ria.p__Firmicutes.c__Erysipelotrichia.o__Erysipelotrichales.f__Erys



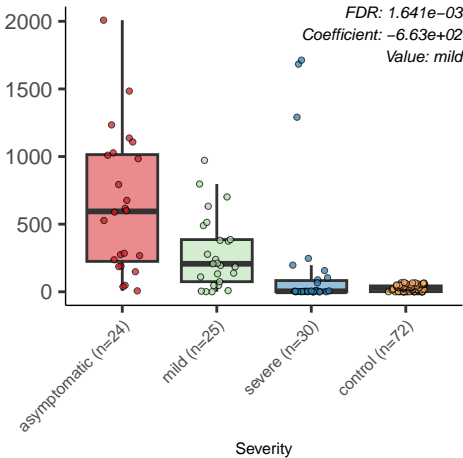
tes.c__Erysipelotrichia.o__Erysipelotrichales.f__Erysipelotrichaceae



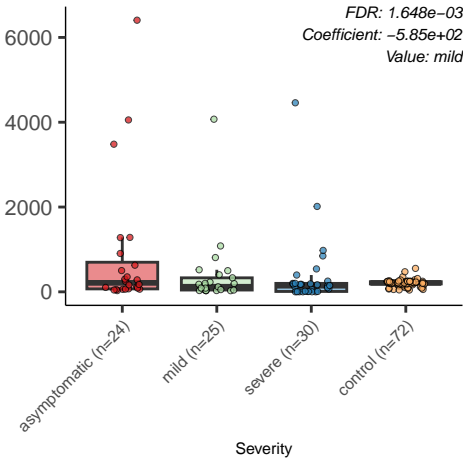
Bacteria.p_Firmicutes.c_Bacilli.o_Lactobacillales.f_Lactobacilla



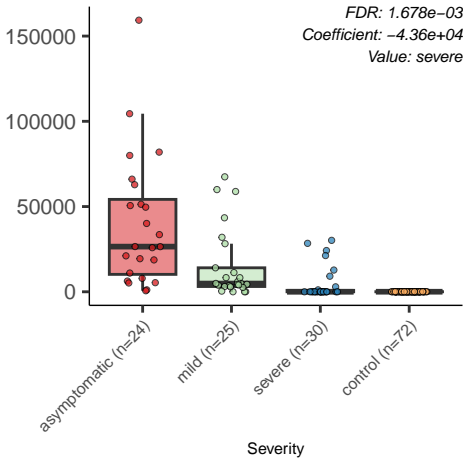
cut.es.c__Bacilli.o__Lactobacillales.f__Lactobacillaceae.g__Acetila

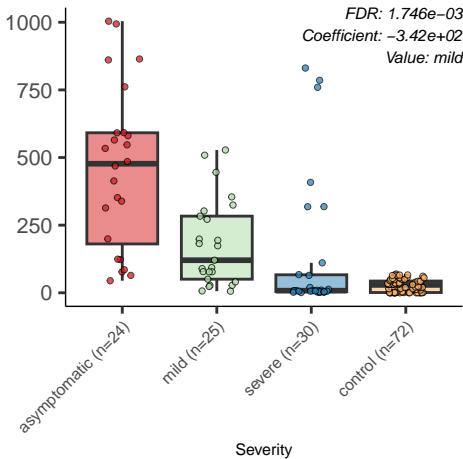


Gammaaproteobacteria.o_Pseudomonadales.f_Pseudomonadaceae



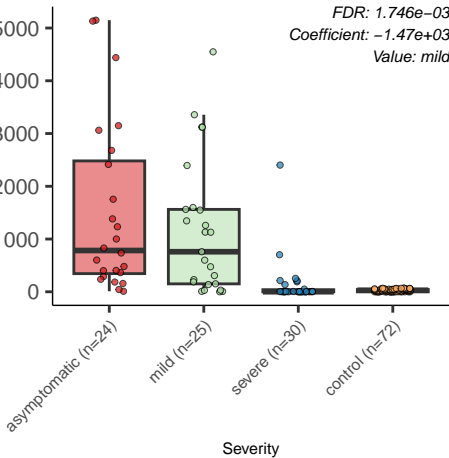
teria.c__Fusobacteriia.o__Fusobacteriales.f__Fusobacteriaceae.g

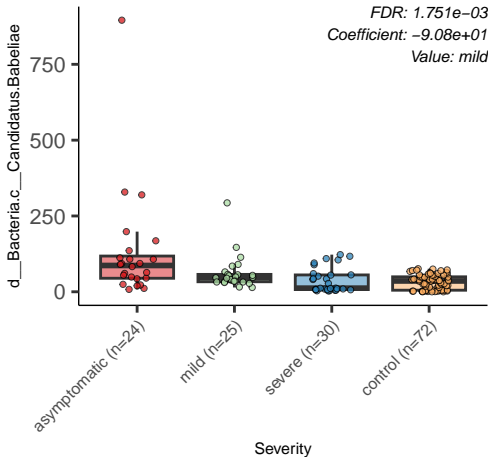


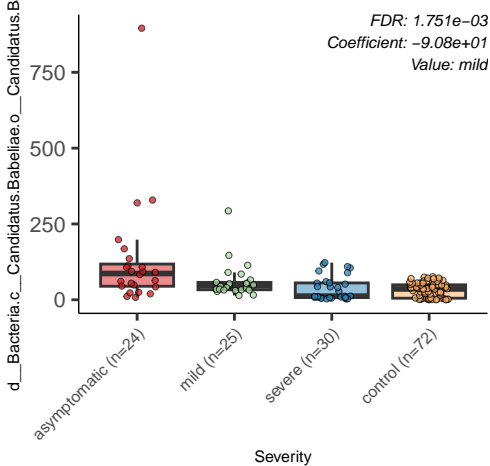


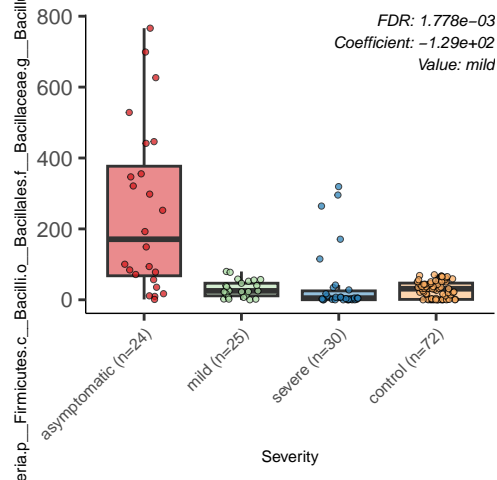
rmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Stre

FDR: 1.746e-03
Coefficient: -1.47e+03
Value: mild









d_Bacteria.p_Cyanobacteria

FDR: 1.788e-03
Coefficient: -1.32e+04
Value: mild

40000

20000

0

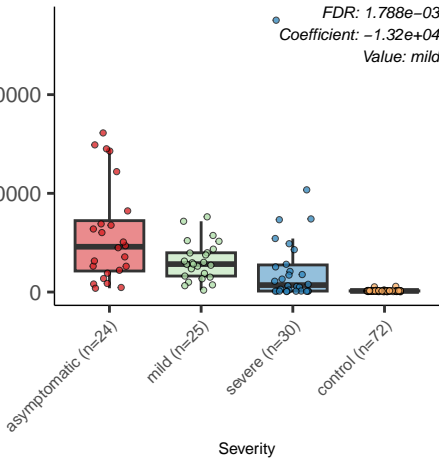
asymptomatic (n=24)

mild (n=25)

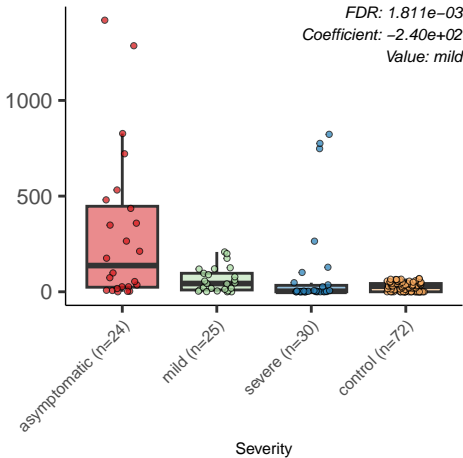
severe (n=30)

control (n=72)

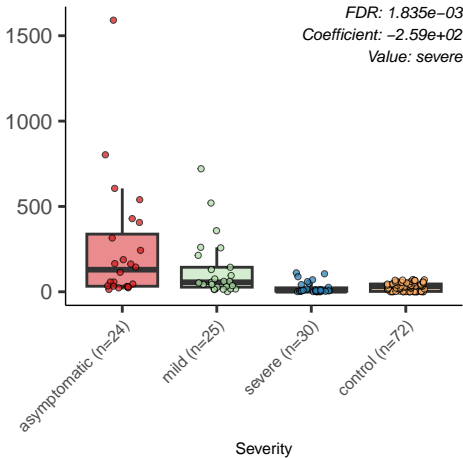
Severity



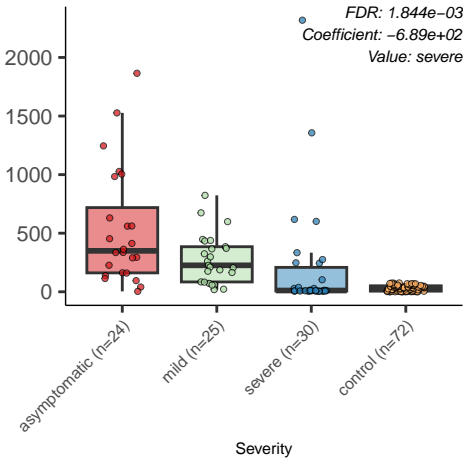
a.p._Firmicutes.c._Bacilli.o._Bacillales.f._Bacillaceae.g._Geobac

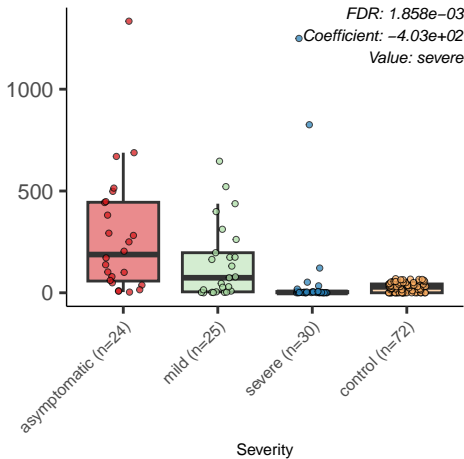


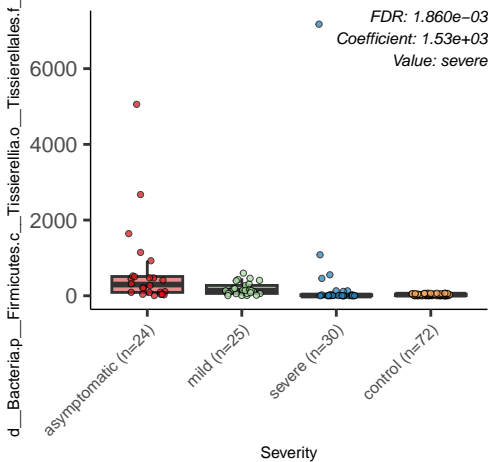
d_Bacteria.p_Spirochaetes.c_Spirochaetia.o_Spirochaetales.

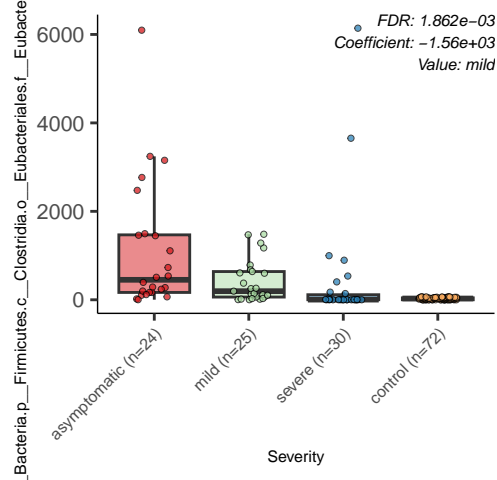


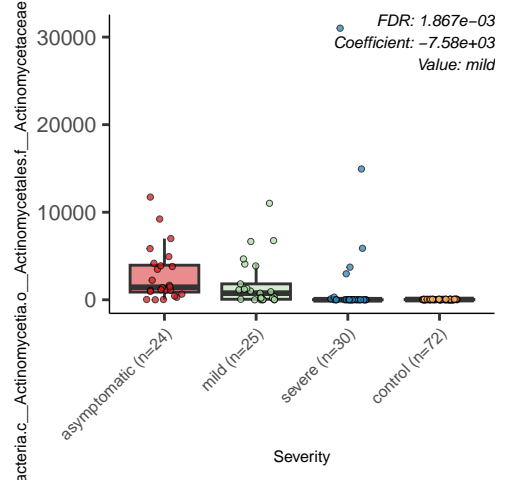
o__Proteobacteria.c__Gammaproteobacteria.o__Alteromonadales.f.



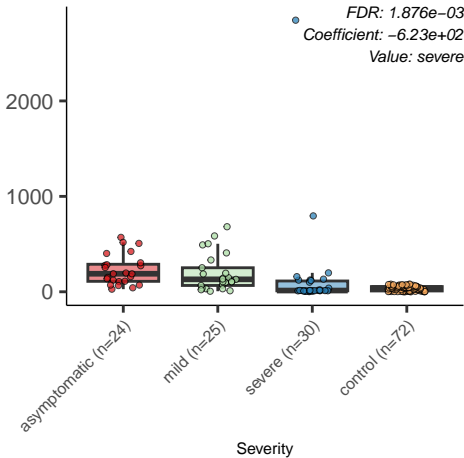




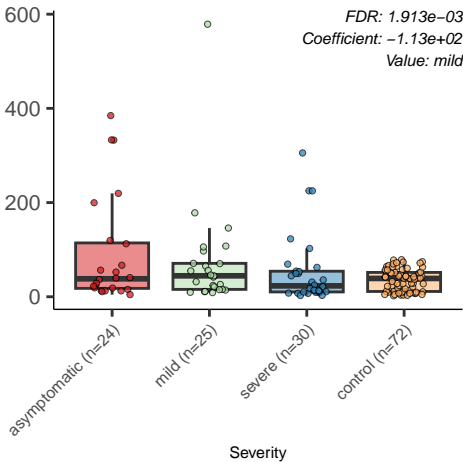




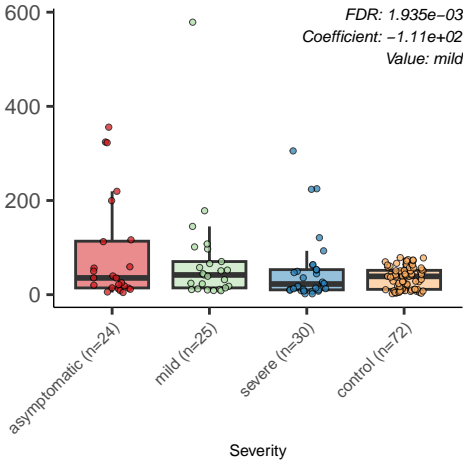
d_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__

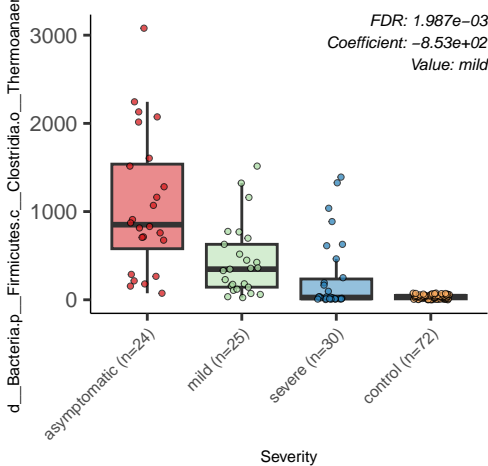


d_Bacteria.p__Cyanobacteria.o__Nostocales.f__Scytonemataceae

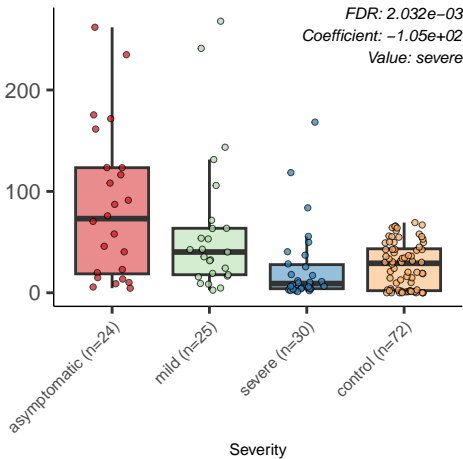


ia.p__Cyanobacteria.o__Nostocales.f__Scytonemataceae.g__Scyto

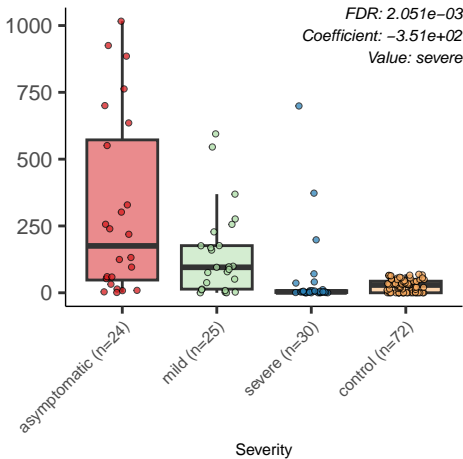


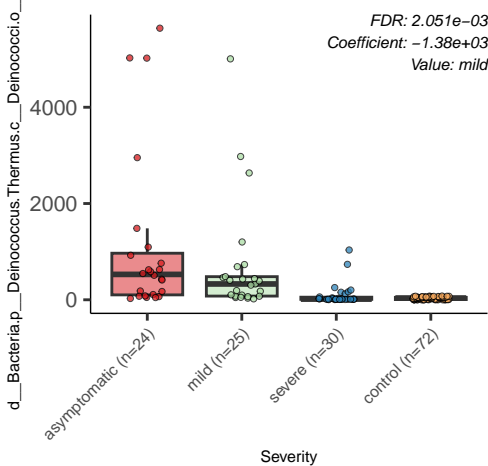


cteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chromatiales



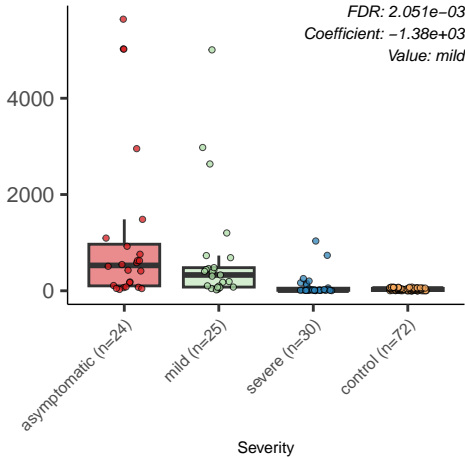
Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Rikenellaceae.

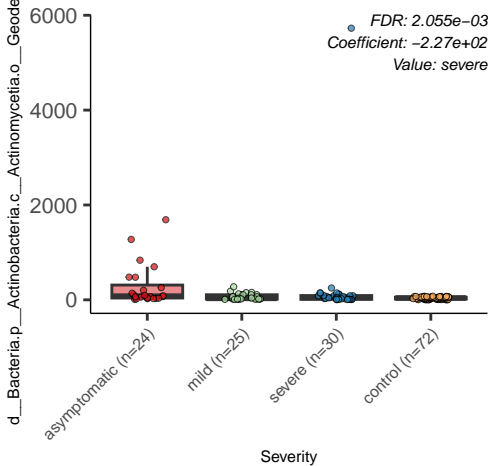


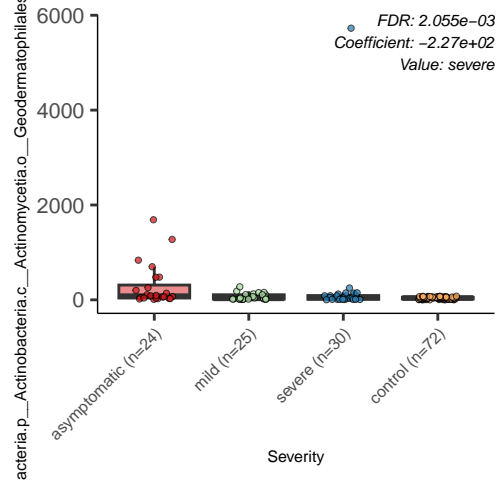


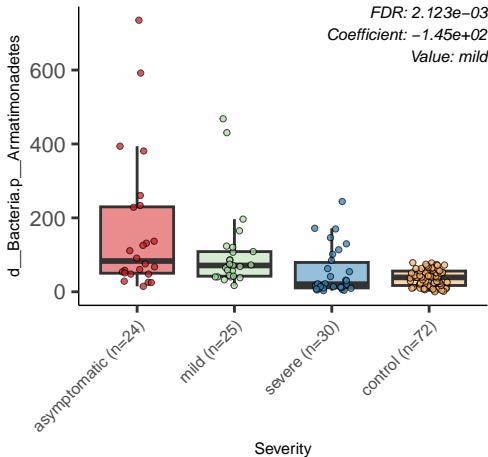
d_Bacteria.p_Deinococcus.Thermus.c_Deinococci.o_Therma

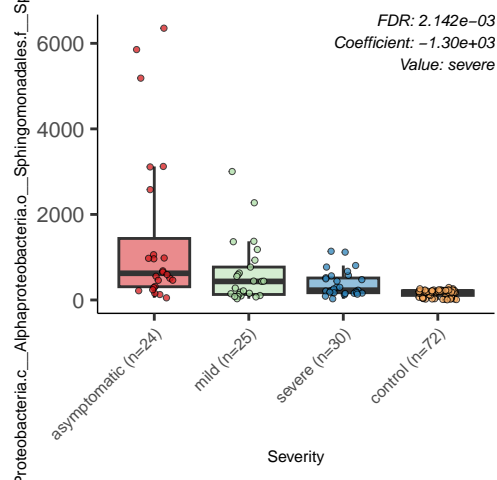
FDR: $2.051e-03$
Coefficient: $-1.38e+03$
Value: mild



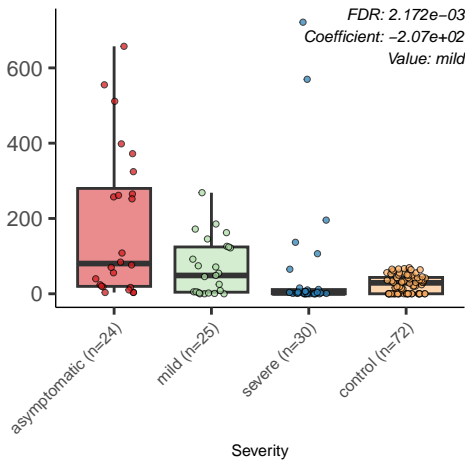


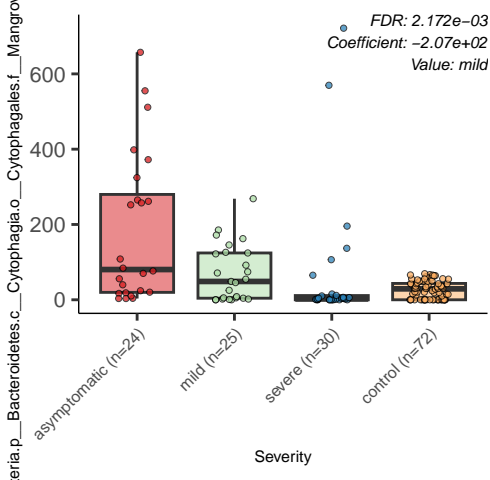




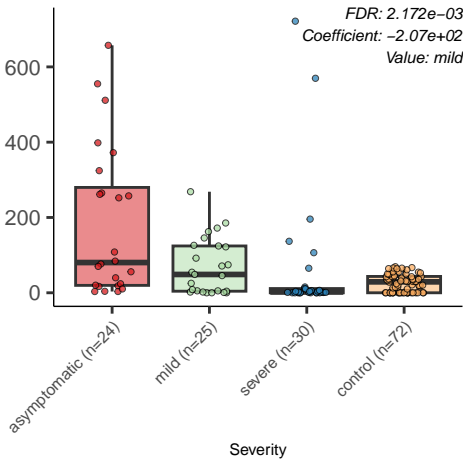


d_Bacteria.p_Bacteroidetes.c_Cytophagia.o_Cytophagales.f

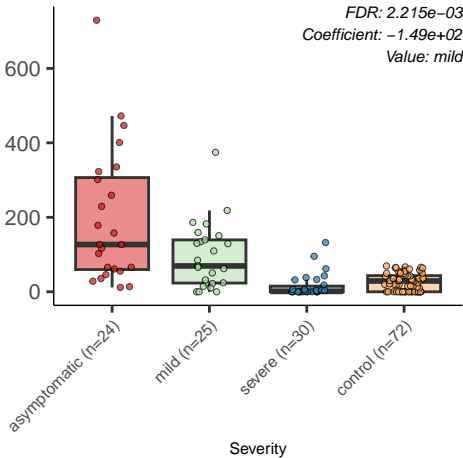




eroidetes.c__Cytophagia.o__Cytophagales.f__Mangrovivirgaceae.g

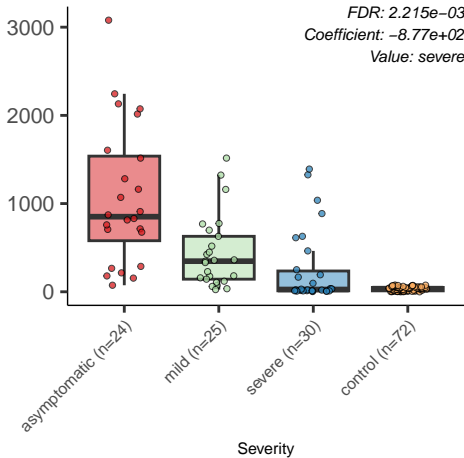


micutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Streptococcus

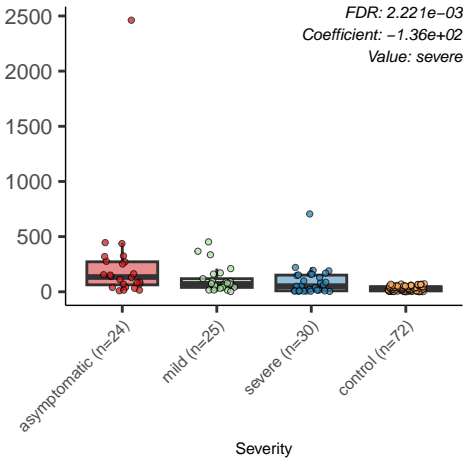


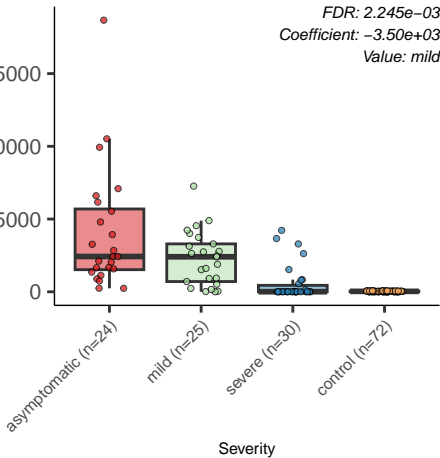
d_Bacteria.p_Firmicutes.c_Clostridia.o_Thermoanae

FDR: 2.215e-03
Coefficient: -8.77e+02
Value: severe

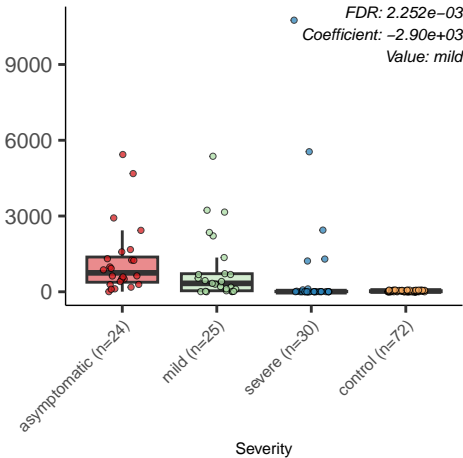


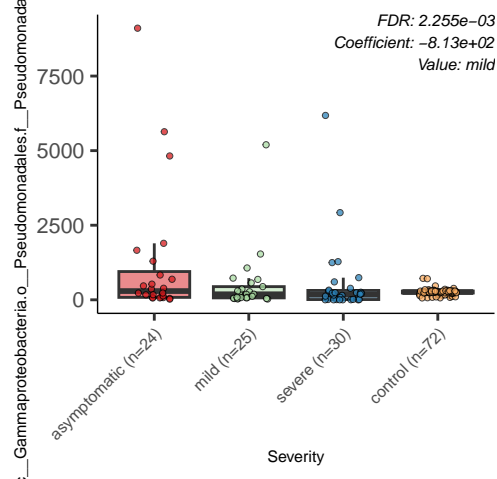
a.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__C

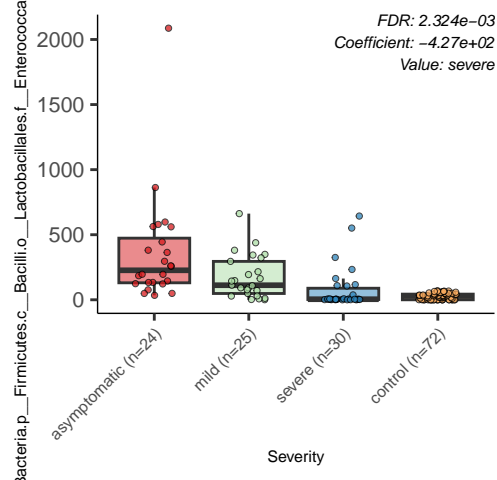


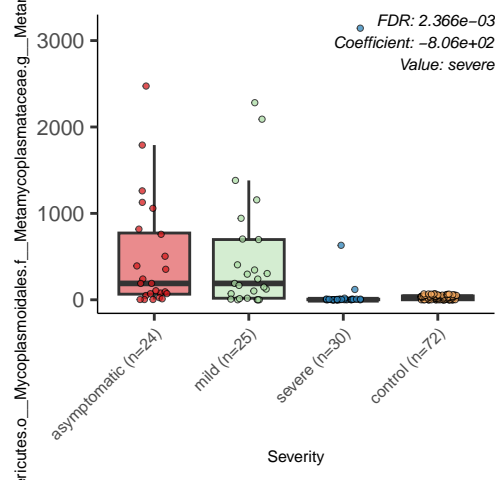


obacteria.c_Actinomycetia.o_Actinomycetales.f_Actinomycetace

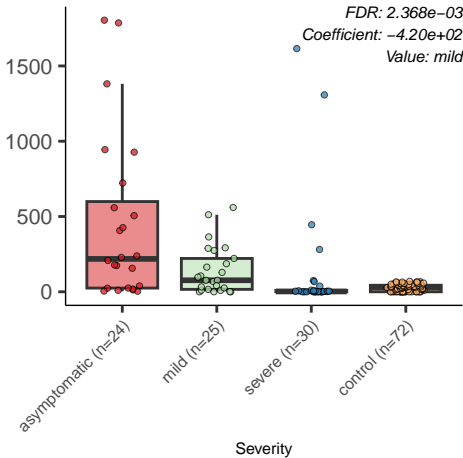




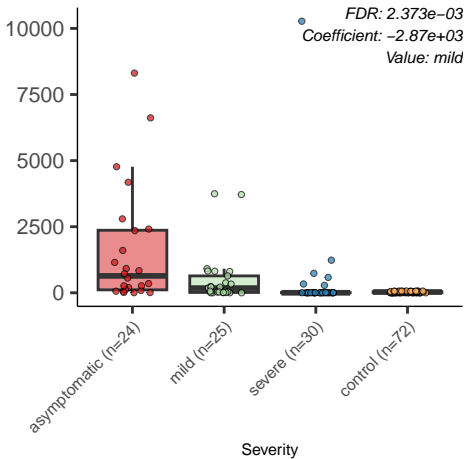




ps.c__Clostridia.o__Eubacteriales.f__Eubacteriales.Family.XIII..Ince



rimonadia.o__Candidatus.Nanosynbacterales.f__Candidatus.Nanos



d__Bacteria.p__Bacteroidetes.c__Sphingobacter

10000

5000

0

asymptomatic (n=24)

mild (n=25)

severe (n=30)

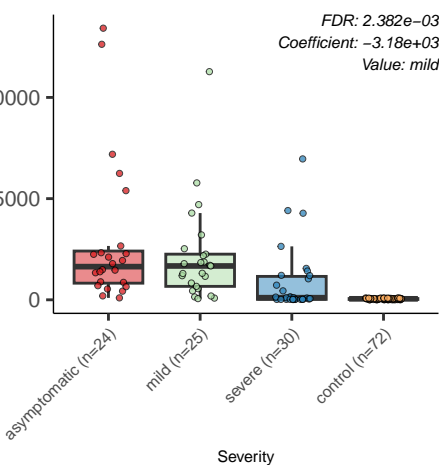
control (n=72)

Severity

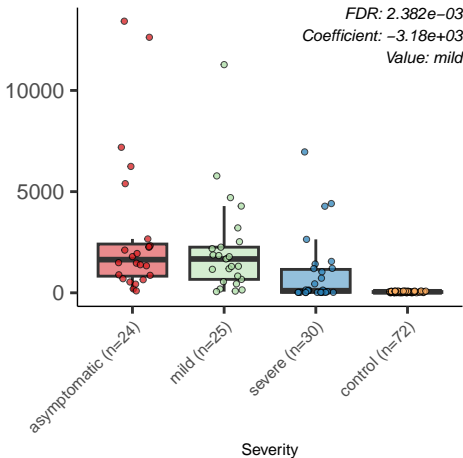
FDR: 2.382e-03

Coefficient: -3.18e+03

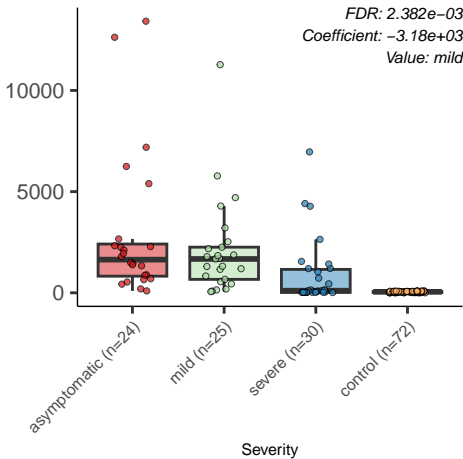
Value: mild

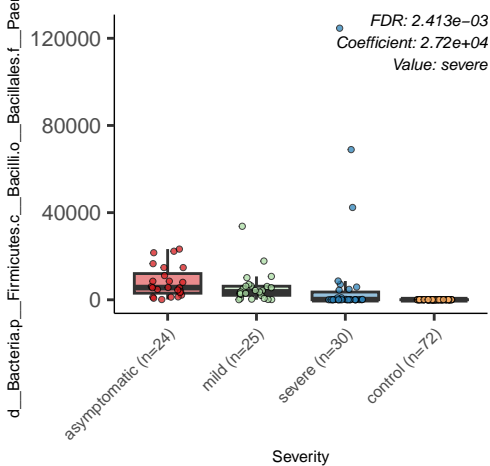


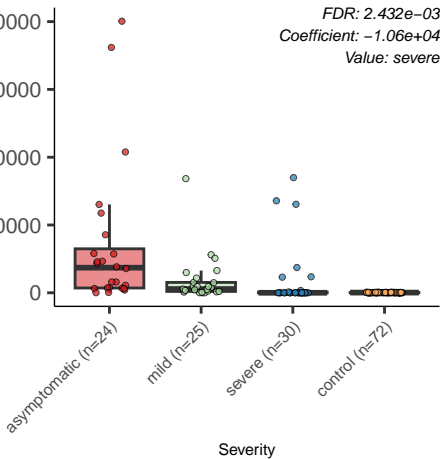
d_Bacteria.p_Bacteroidetes.c_Sphingobacteriia.o_Sphir



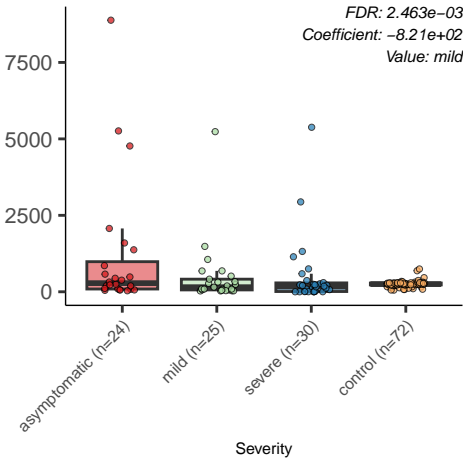
bacteria.p__Bacteroidetes.c__Spingobacteriia.o__Spingobacteriale



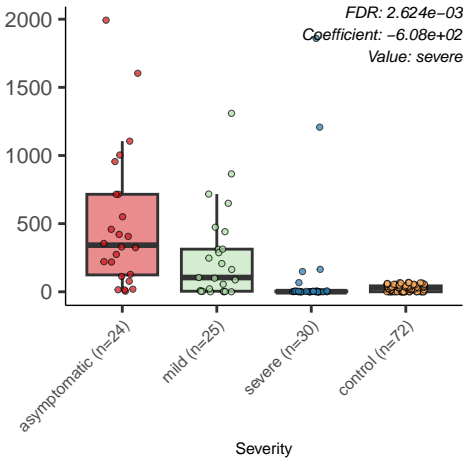


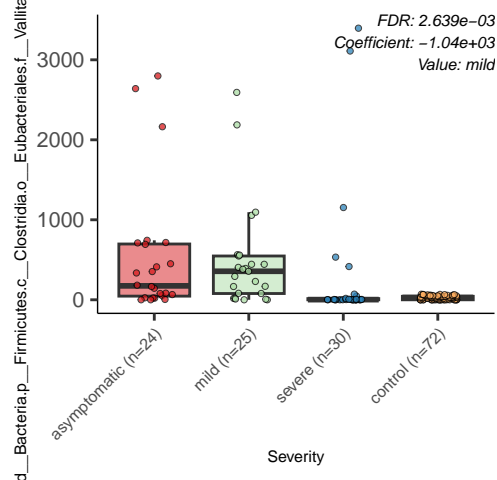


Gammaproteobacteria.o__Pseudomonadales.f__Pseudomonadace

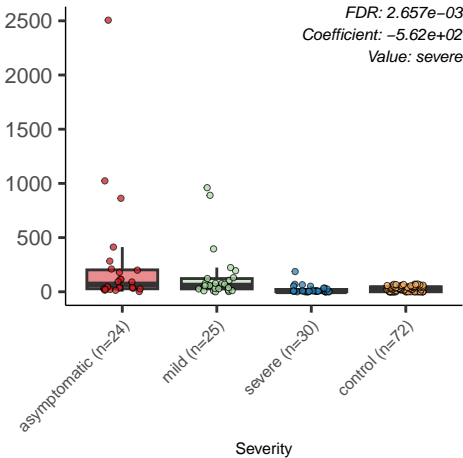


enericutes.c__Mollicutes.o__Mycoplasmales.f__Mycoplasma

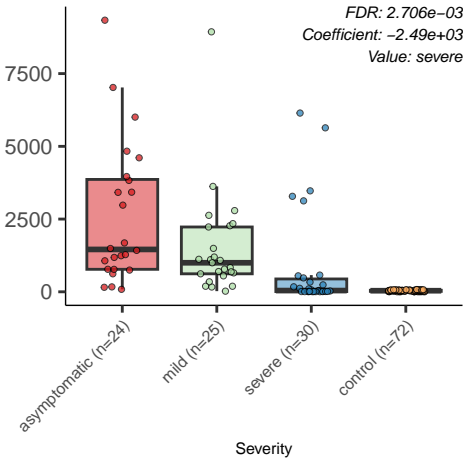




firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Str

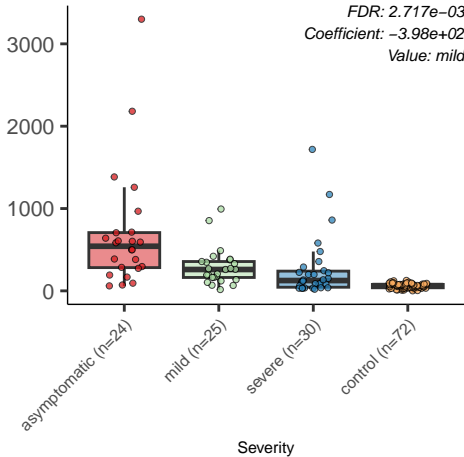


terial.p__Tenericutes.c__Mollicutes.o__Mycoplasmatales.f__Mycoplasma

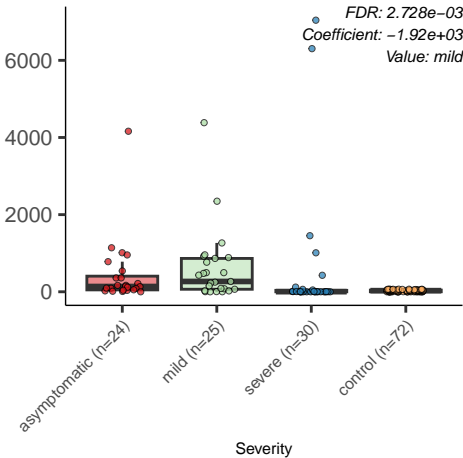


4_Bacteria.p_Actinobacteria.c_Actinomycetia.o_Micrococcales

FDR: $2.717e-03$
Coefficient: $-3.98e+02$
Value: mild

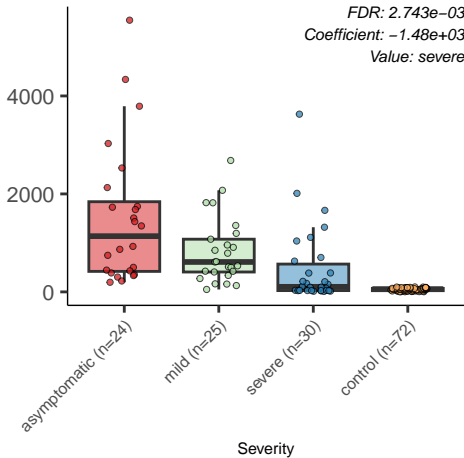


Firmicutes.c__Clostridia.o__Eubacteriales.f__Clostridiaceae.g__Clo

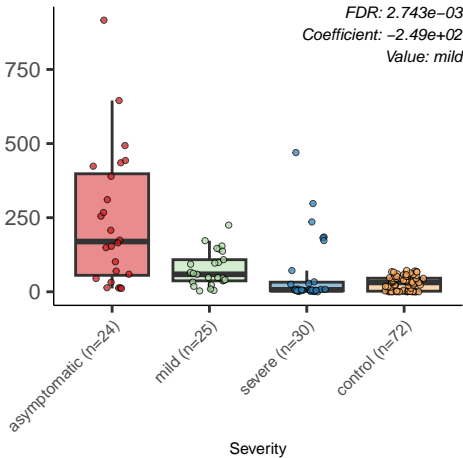


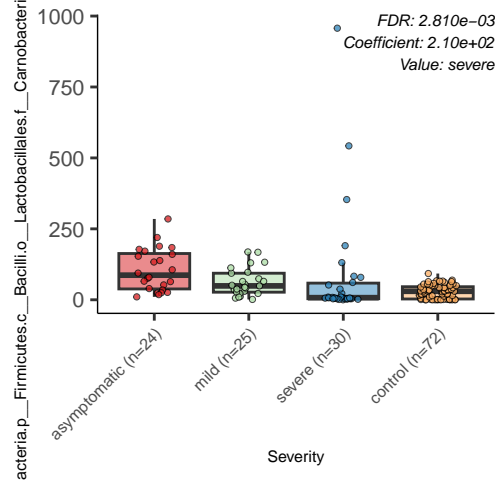
d_Bacteria.p_Acidobacteria

FDR: $2.743\text{e-}03$
Coefficient: $-1.48\text{e}+03$
Value: severe

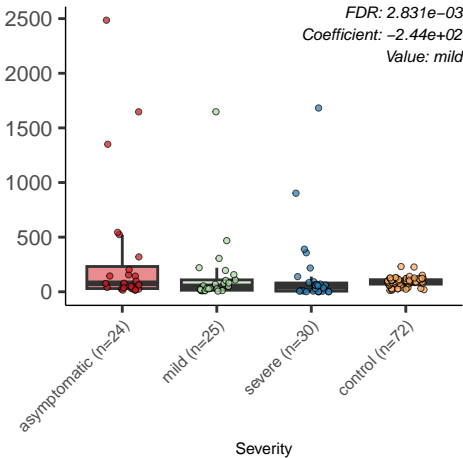


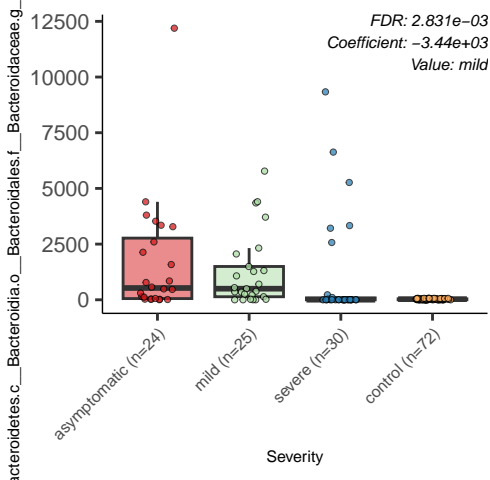
bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfuromon

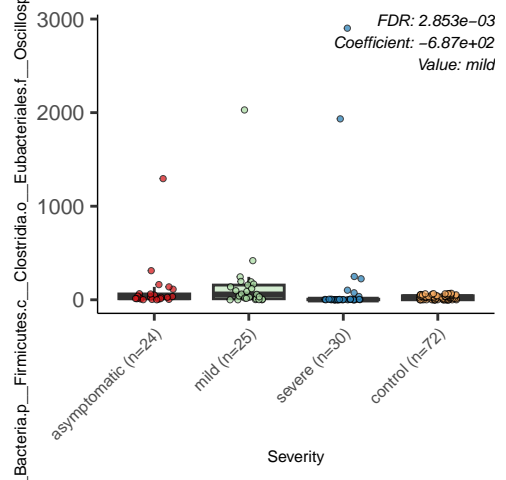


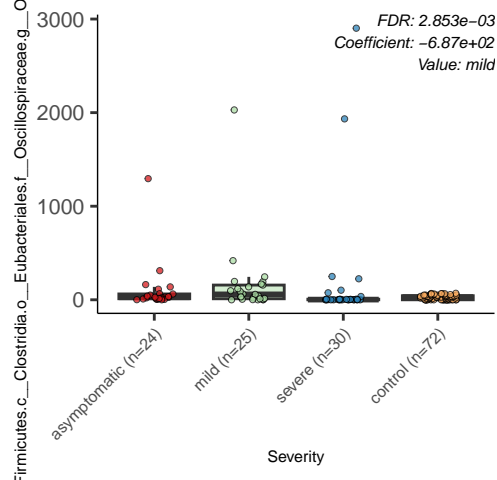


__Gammaproteobacteria.o__Pseudomonadales.f__Pseudomonada

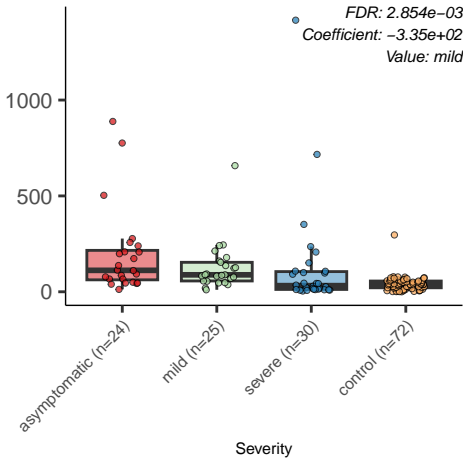




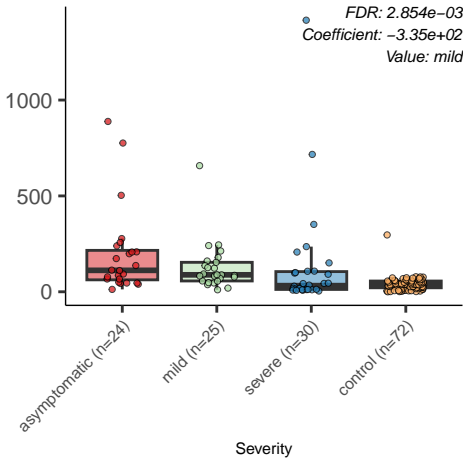


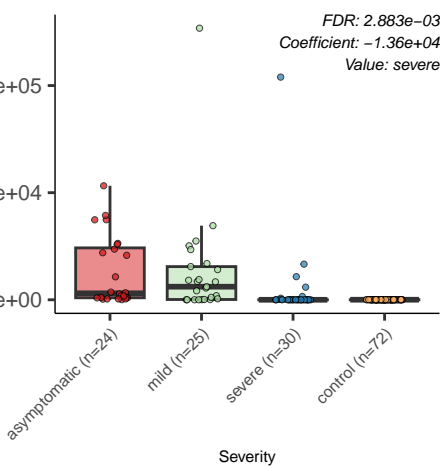


d_Bacteria.p_Actinobacteria.c_Actinomycetia.o_Candidatus

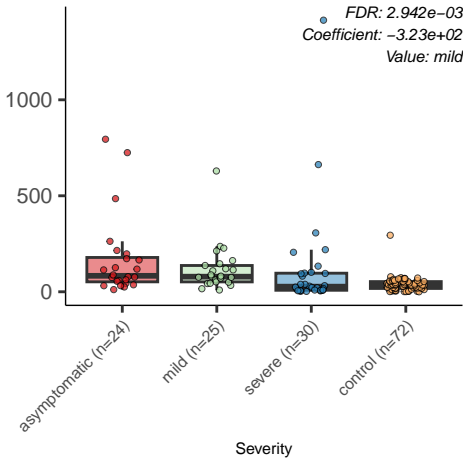


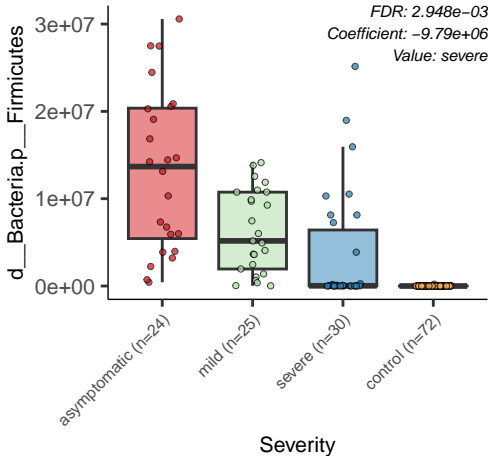
Actinobacteria.c__Actinomycetia.o__Candidatus.Nanopelagale

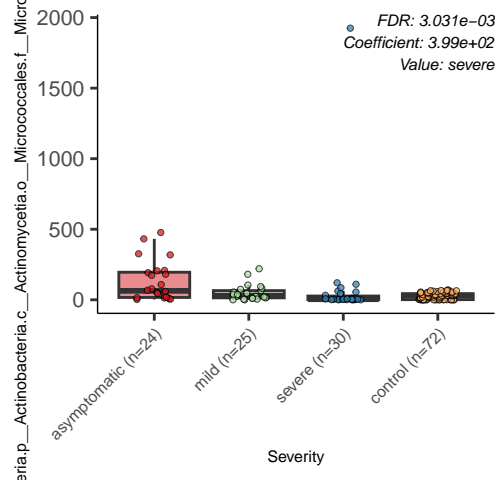


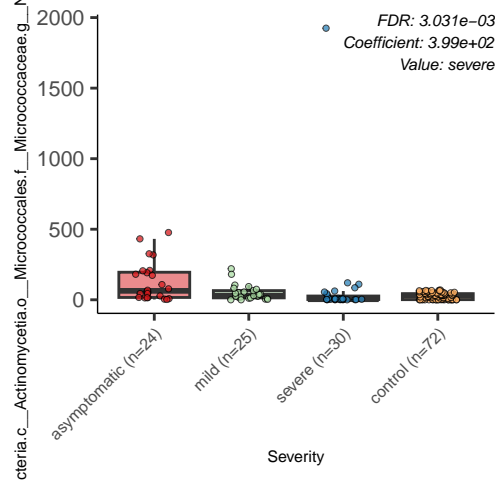


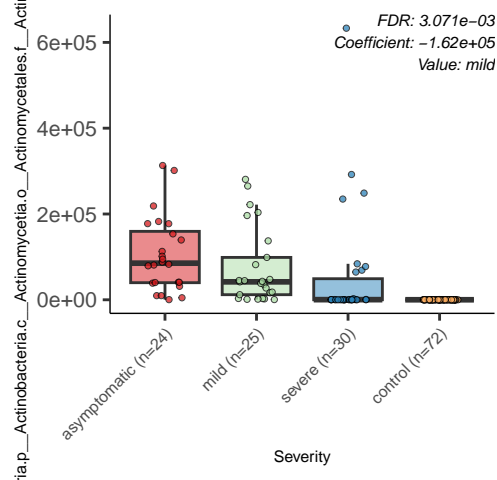
eria.c_Actinomyces.f_Candidatus.Nanopelagales.f_Candidatu

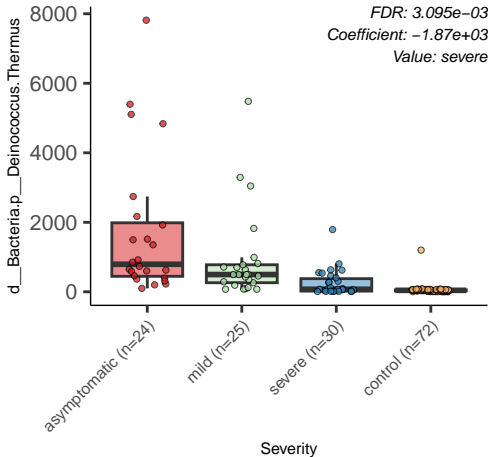


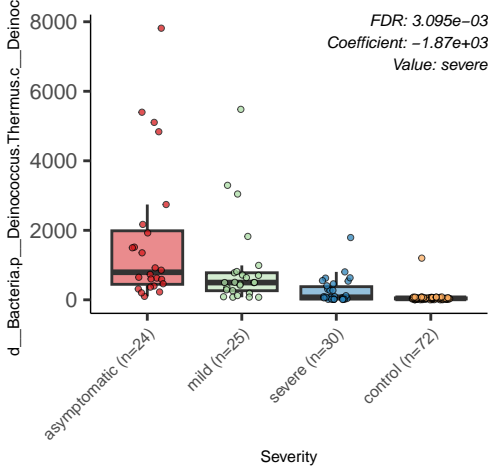




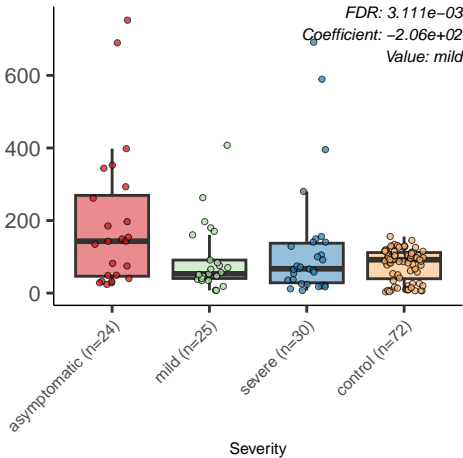




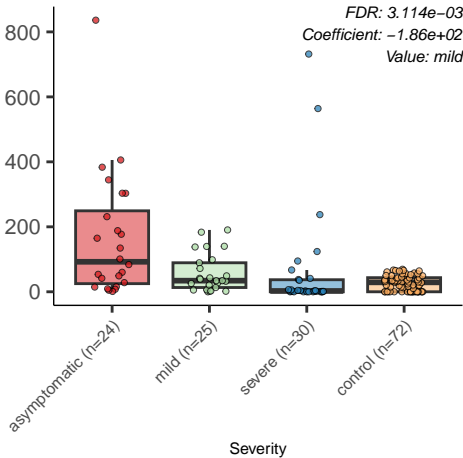


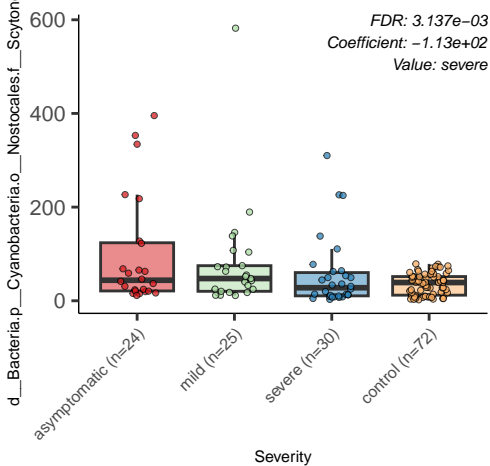


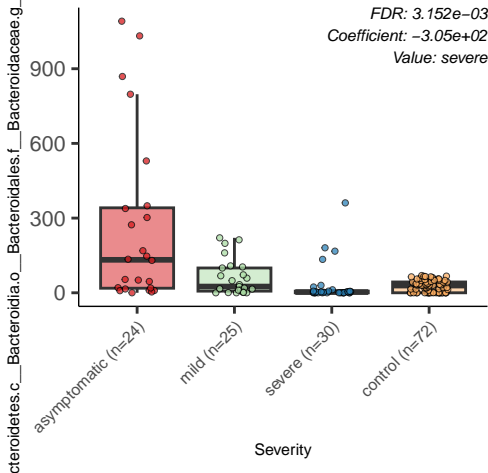
ia.p__Proteobacteria.c__Alphaproteobacteria.o__Hyphomicrobiales

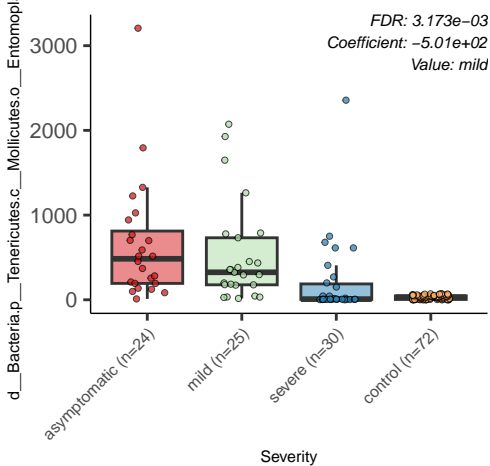


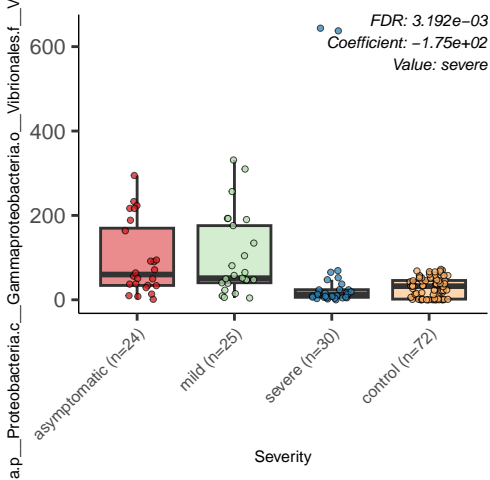
bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Thermoactinomyces



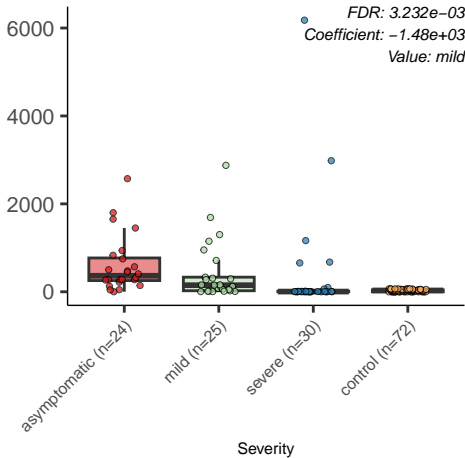




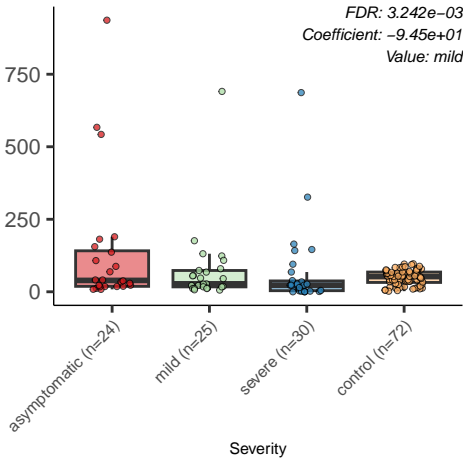


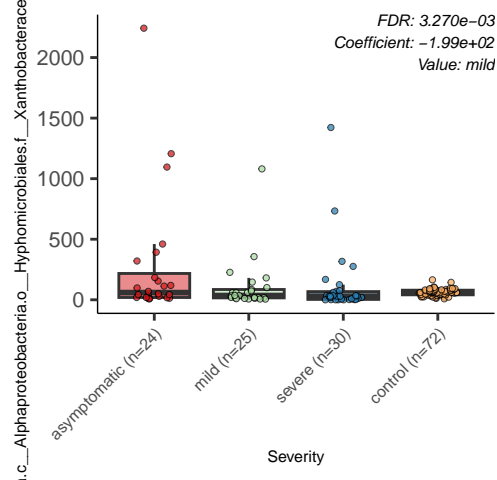


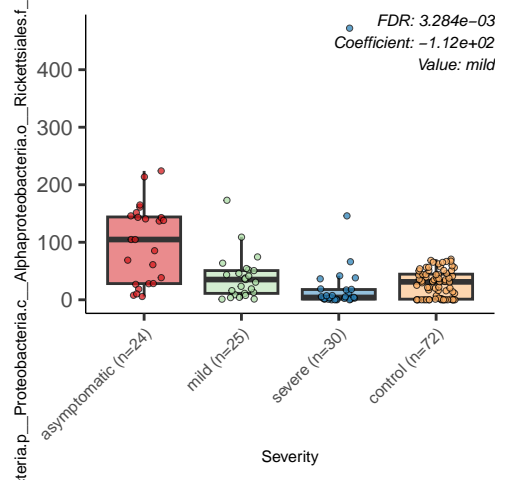
bacteria.c_Actinomycetia.o_Actinomycetales.f_Actinomycetaceae



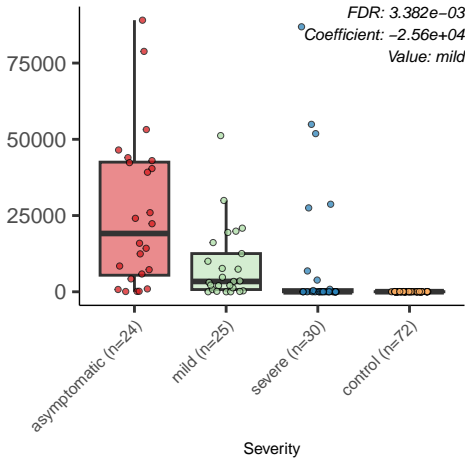
acteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderia



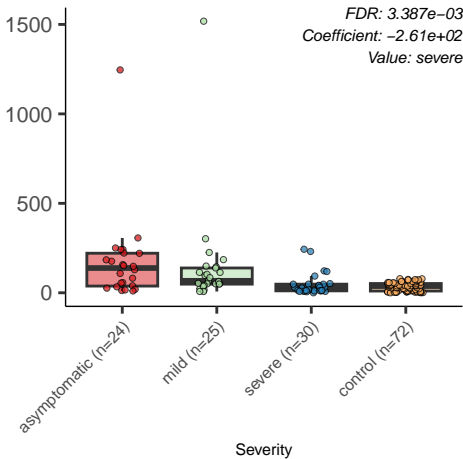


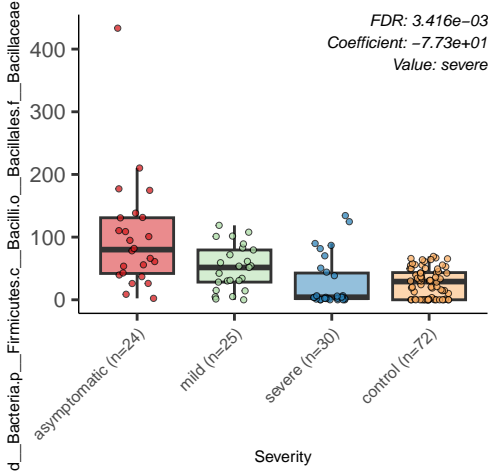


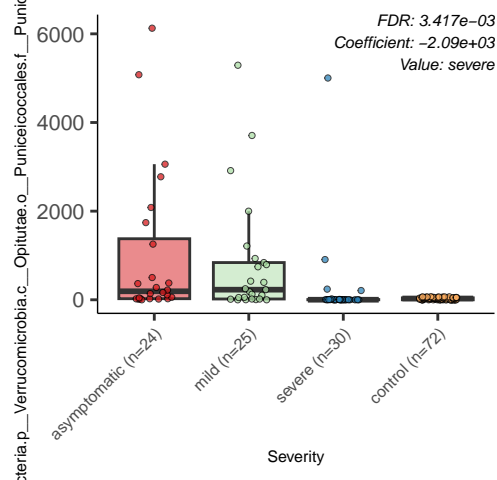
accharimonadia.o__Candidatus.Nanosynbacterales.f__Candidatus.



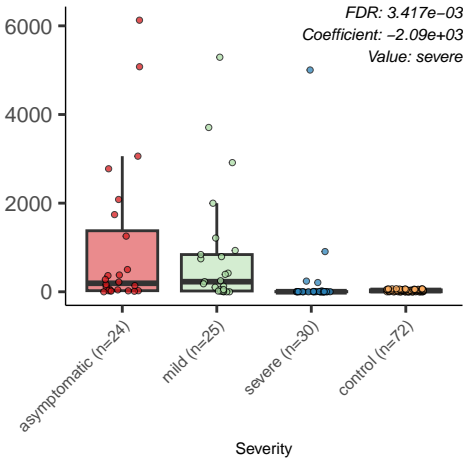
ia.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f

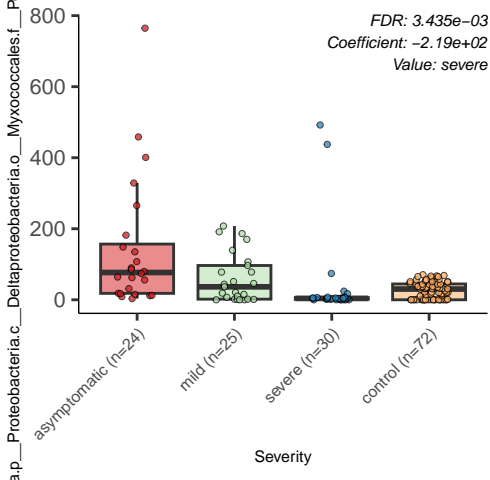


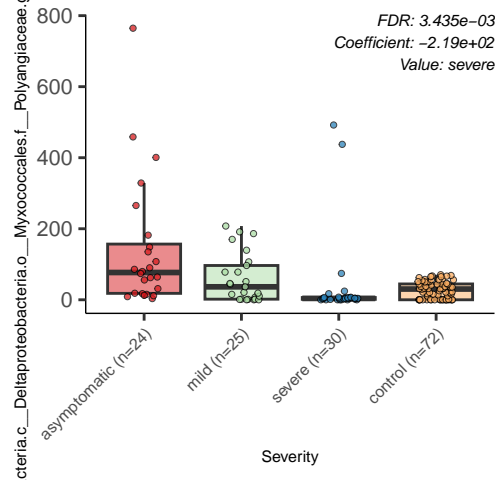




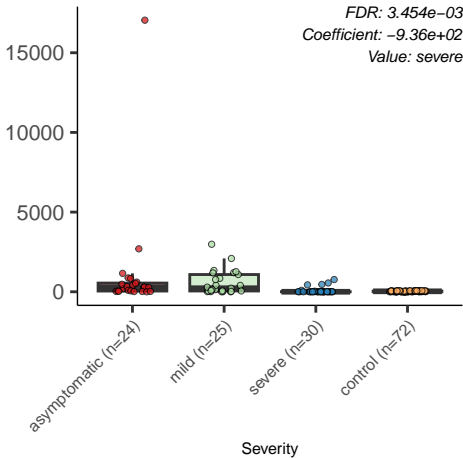
tucomicrobia.c__Opitutae.o__Puniceicoccales.f__Puniceicoccaceae

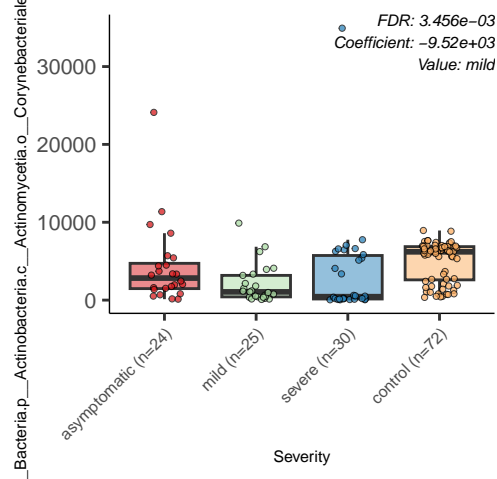


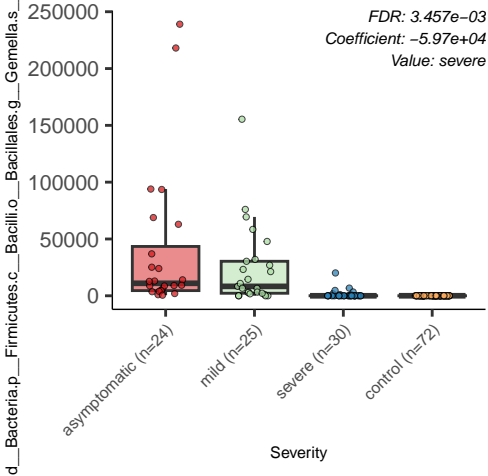


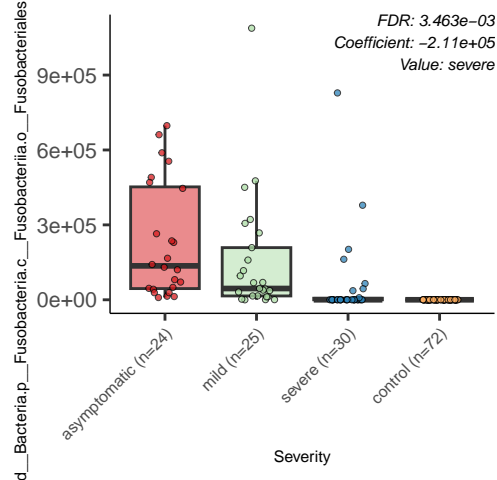


irochaetes.c__Spirochaetia.o__Spirochaetales.f__Treponemataceae









d_Bacteria.p_Proteobacteria

2.0e+07
1.5e+07
1.0e+07
5.0e+06
0.0e+00

FDR: 3.463e-03
Coefficient: -5.67e+06
Value: severe

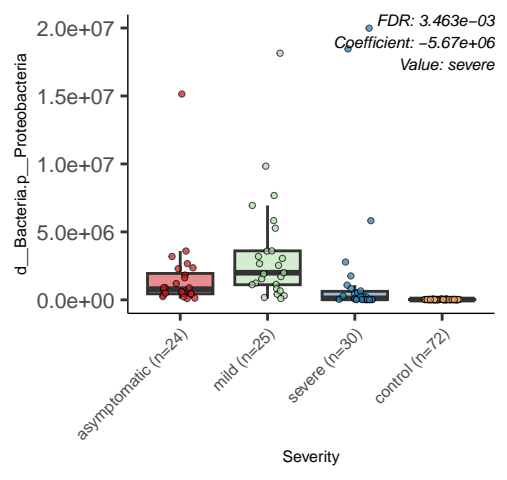
asymptomatic (n=24)

mild (n=25)

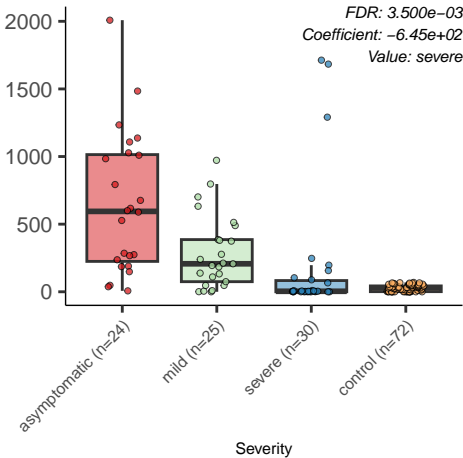
severe (n=30)

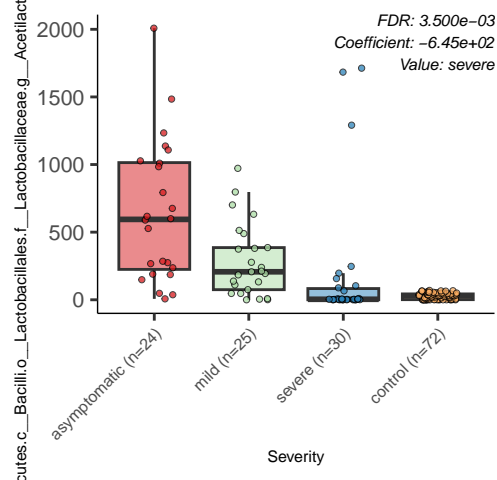
control (n=72)

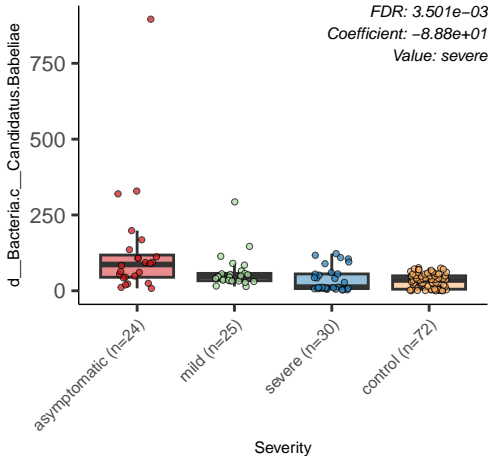
Severity

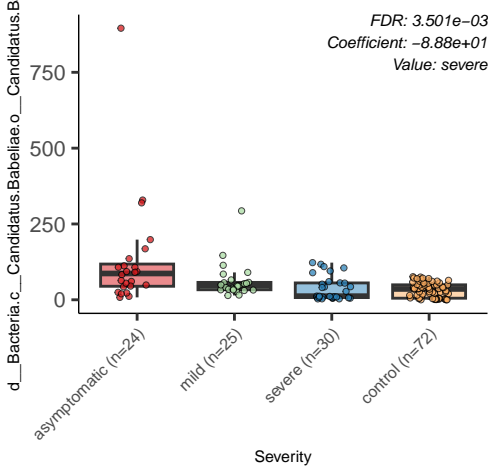


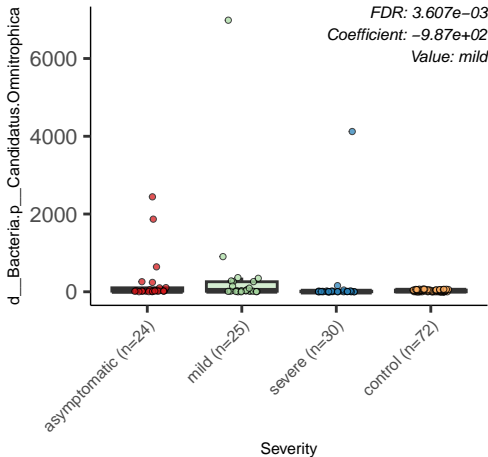
Bacteria.p_Firmicutes.c_Bacilli.o_Lactobacillales.f_Lactobacilla

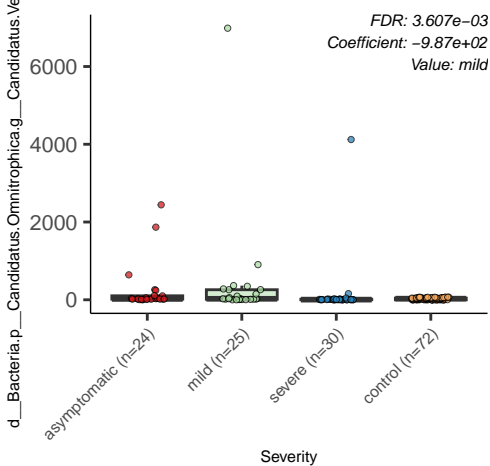


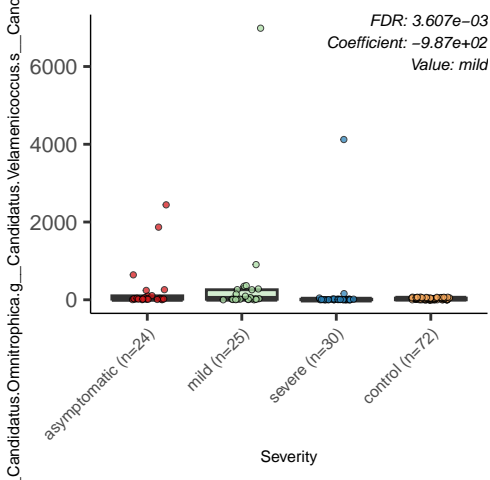


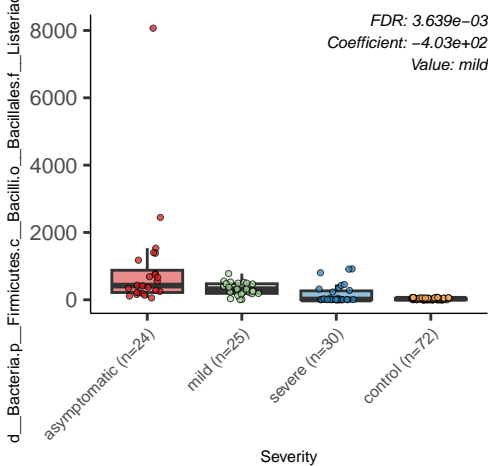


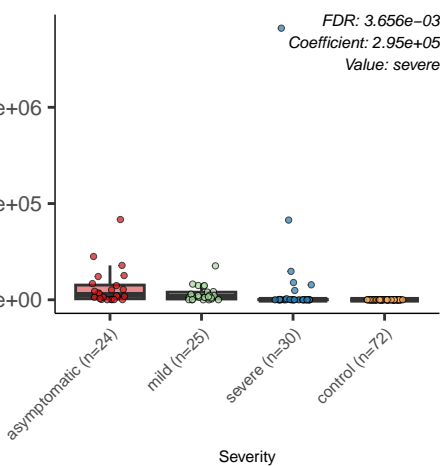












d_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_De

10000

5000

0

asymptomatic (n=24)

mild (n=25)

severe (n=30)

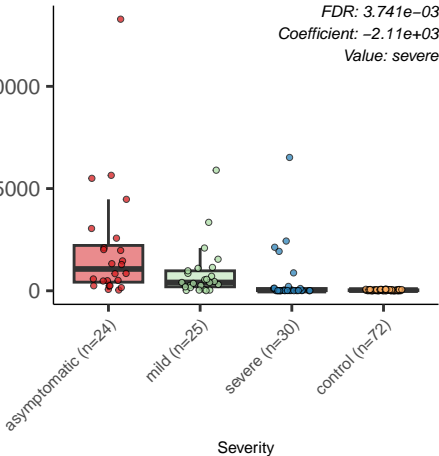
control (n=72)

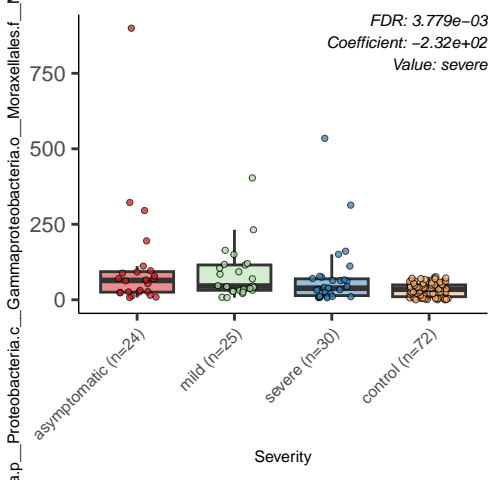
Severity

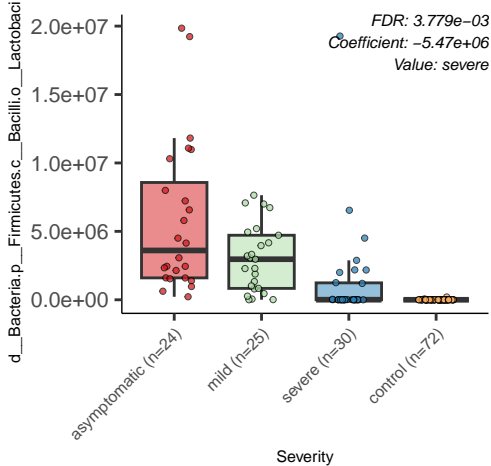
FDR: $3.741e-03$

Coefficient: $-2.11e+03$

Value: severe







d_Bacteria.p__Tenericutes.c__Mollicutes.o__Acholepleia

FDR: $3.794e-03$
Coefficient: $-5.78e+02$
Value: severe

6000

4000

2000

0

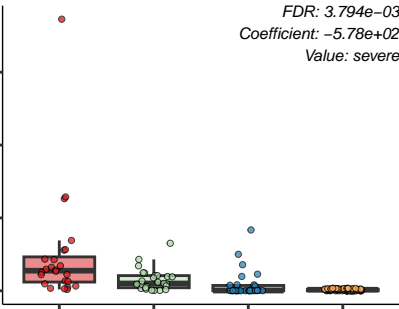
asymptomatic (n=24)

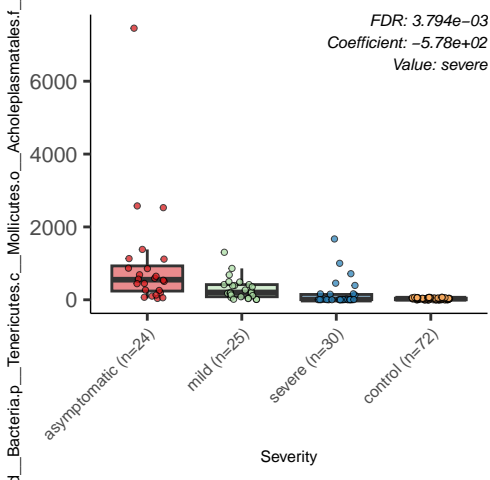
mild (n=25)

severe (n=30)

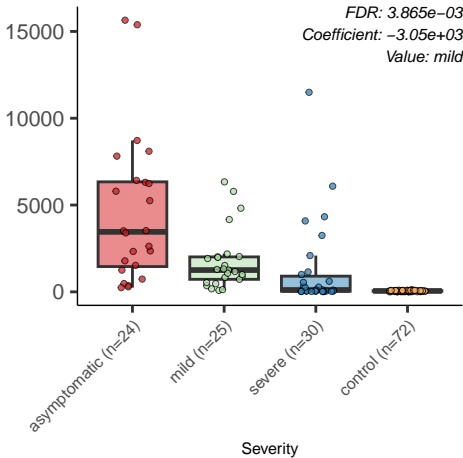
control (n=72)

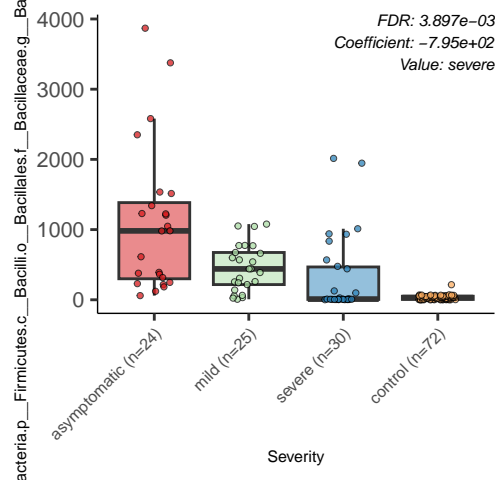
Severity

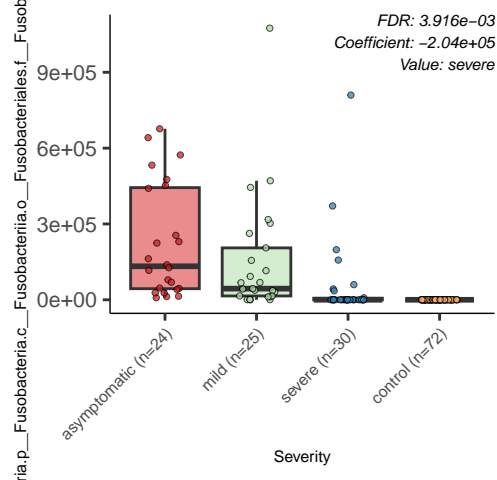




d__Bacteria.p__Proteobacteria.c__Deltaproteobac

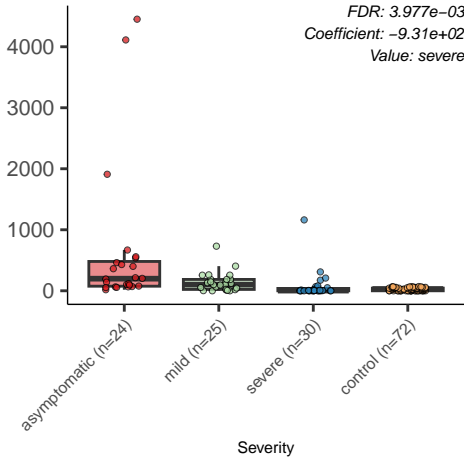




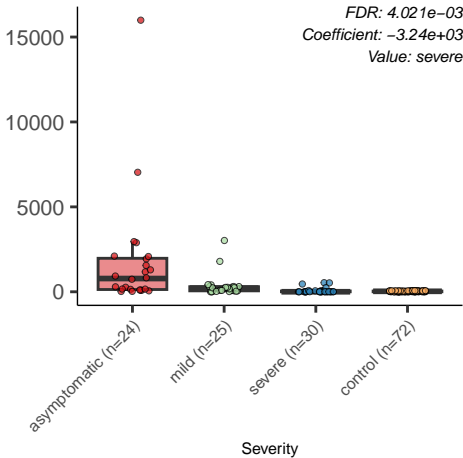


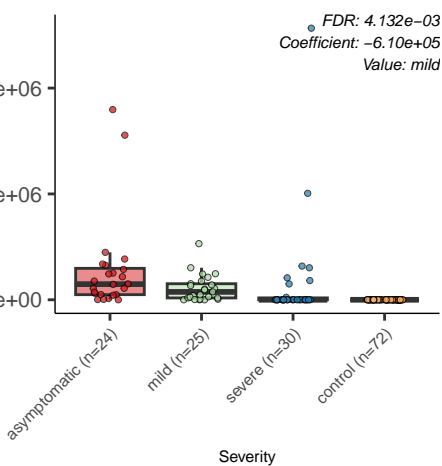
micutes.c_Bacilli.o_Lactobacillales.f_Streptococcaceae.g_Stre

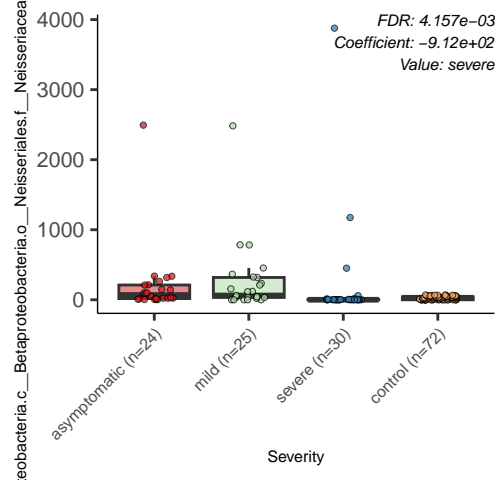
FDR: 3.977e-03
Coefficient: -9.31e+02
Value: severe



micutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Stre

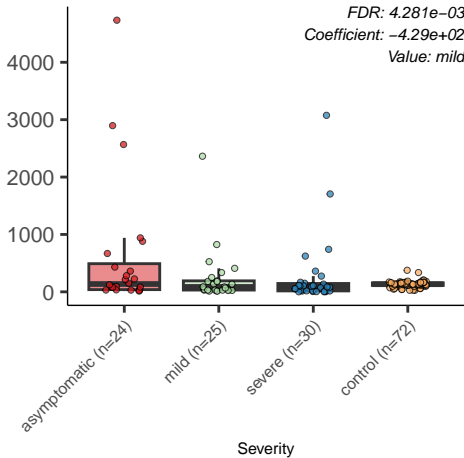




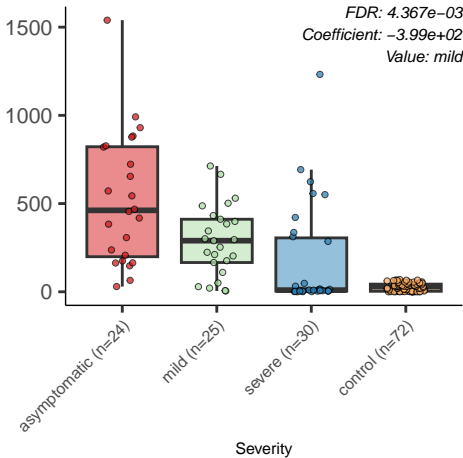


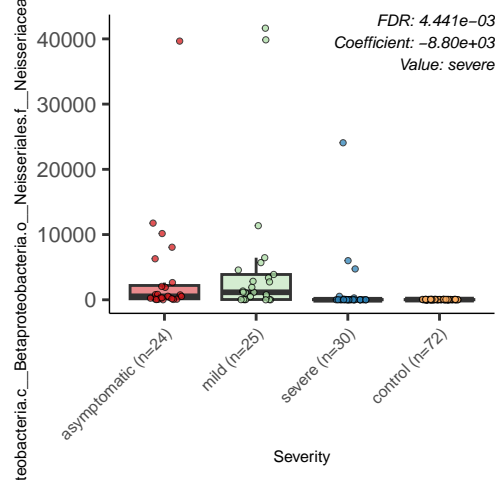
Proteobacteria.c__Alphaproteobacteria.o__Hyphomicrobiales.f__X

FDR: 4.281e-03
Coefficient: -4.29e+02
Value: mild

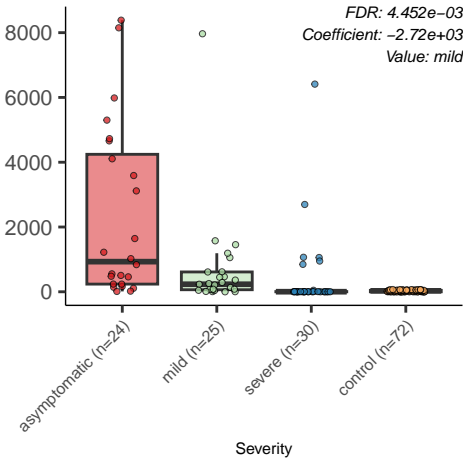


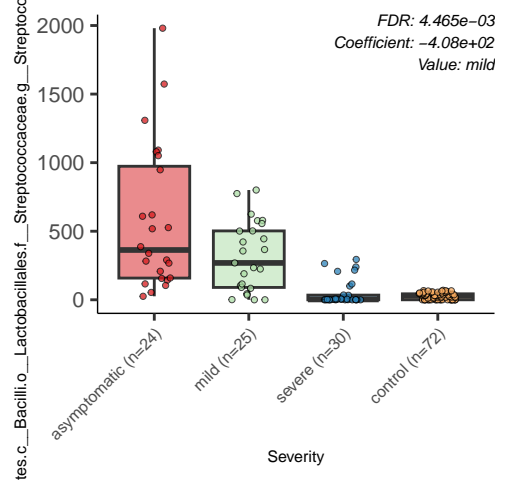
Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Bacillaceae.g_B

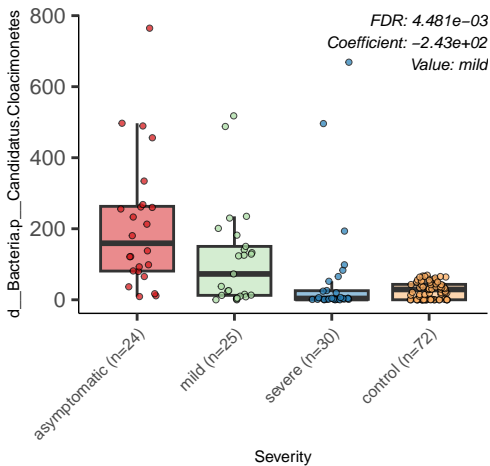


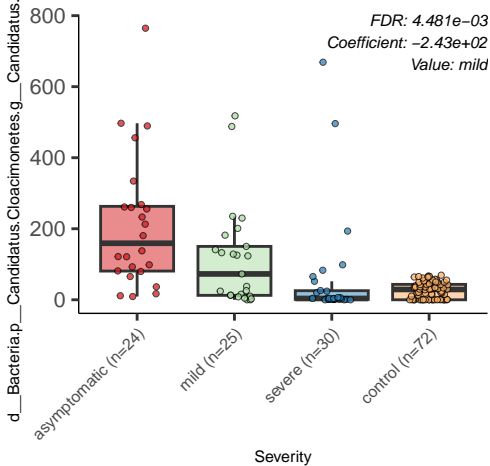


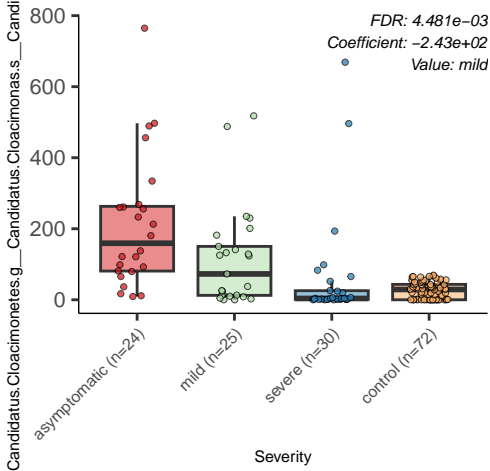
utes.c__Negativicutes.o__Selenomonadales.f__Selenomonadaceae

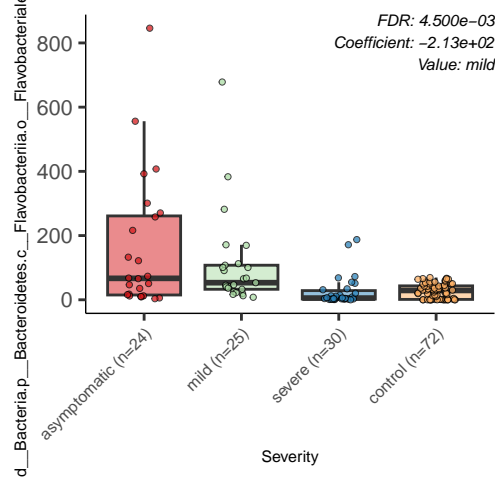


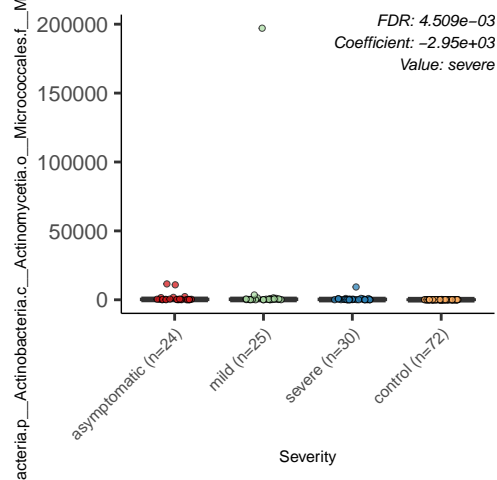


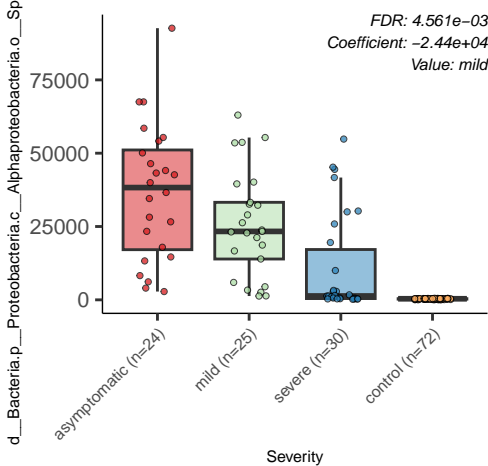


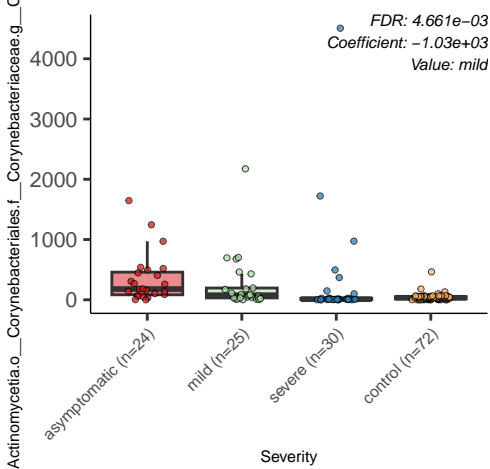


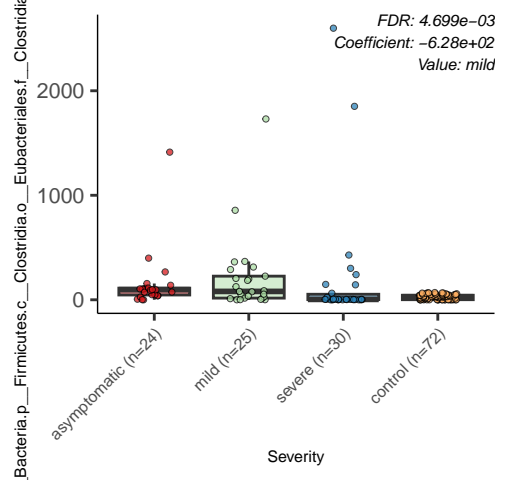


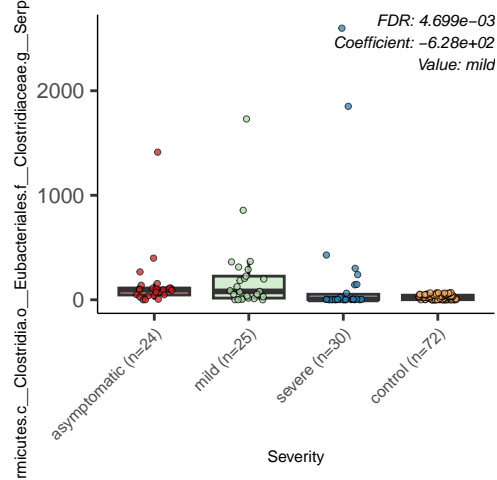


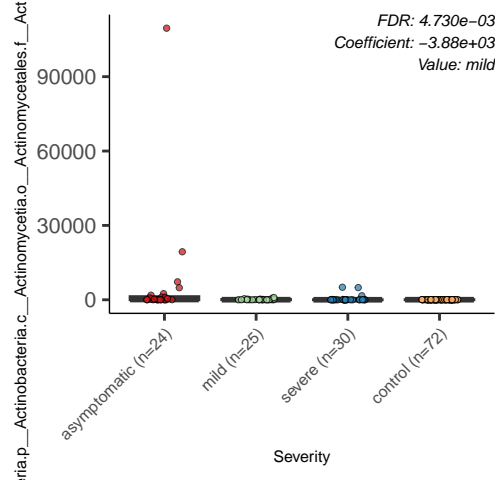






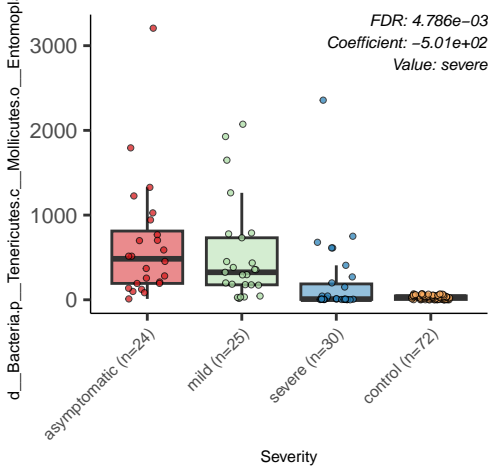


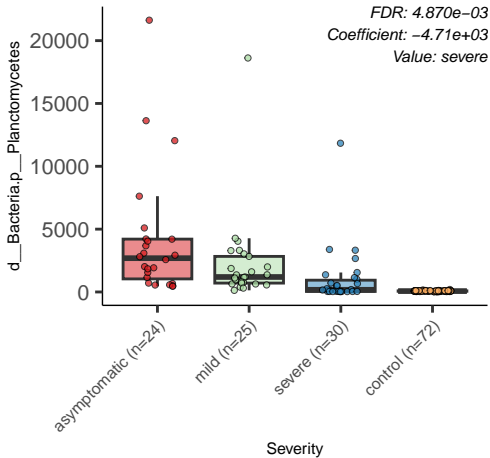




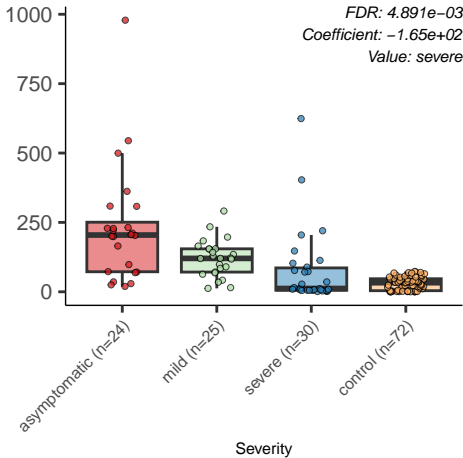
control (n=72)

FDR: 4.730e-03
Coefficient: -3.88e+03
Value: mild

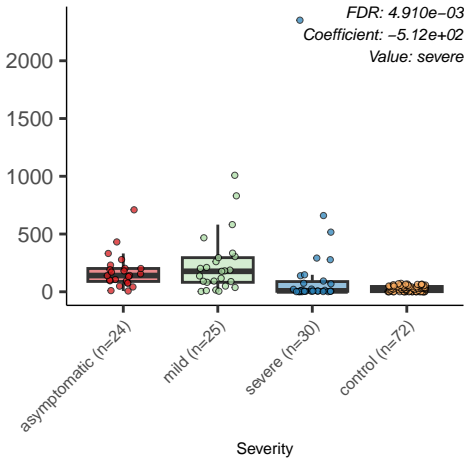




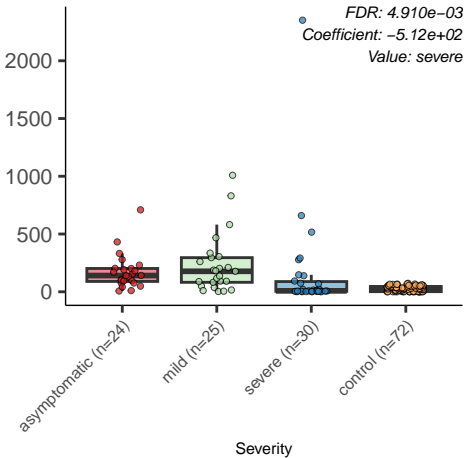
Firmicutes.c_Clostridia.o_Eubacteriales.f_Clostridiaceae.g_C



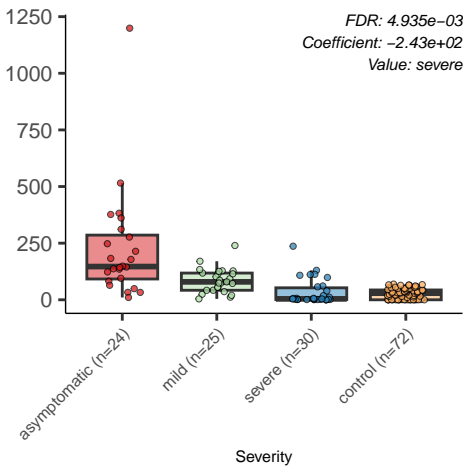
p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacterales.f

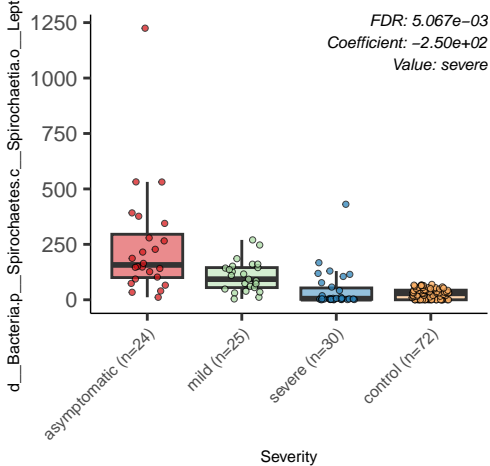


bacteria.c__Gammaproteobacteria.o__Enterobacterales.f__Morganel

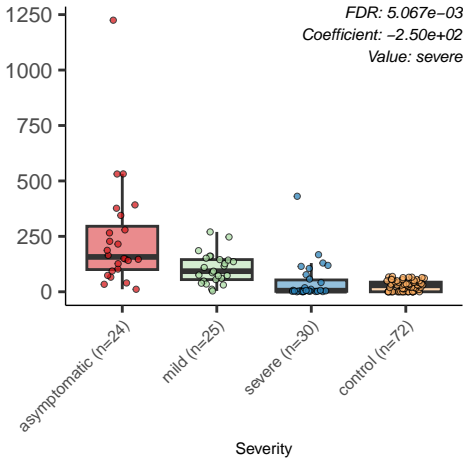


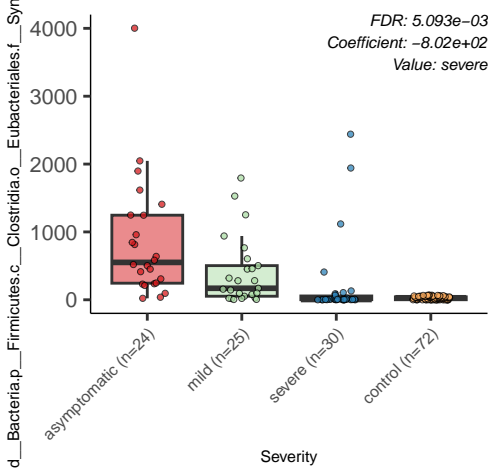
Bacteria.p_Spirochaetes.c_Spirochaetia.o_Leptospirales.f_Lept





d_Bacteria.p__Spirochaetes.c__Spirochaetia.o__Leptospirales.





d__Bacteria.p_Actinobacteria.c_Acidimicrobi

FDR: 5.129×10^{-3}
Coefficient: -2.59×10^2
Value: mild

1000
500
0

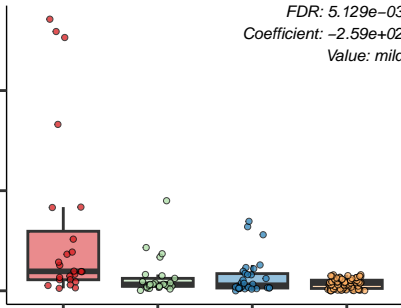
asymptomatic (n=24)

mild (n=25)

severe (n=30)

control (n=72)

Severity



d_Bacteria.p_Actinobacteria.c_Acidimicrobiia.o_Acid

1000

500

0

asymptomatic (n=24)

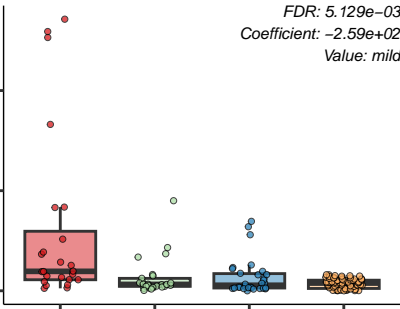
mild (n=25)

severe (n=30)

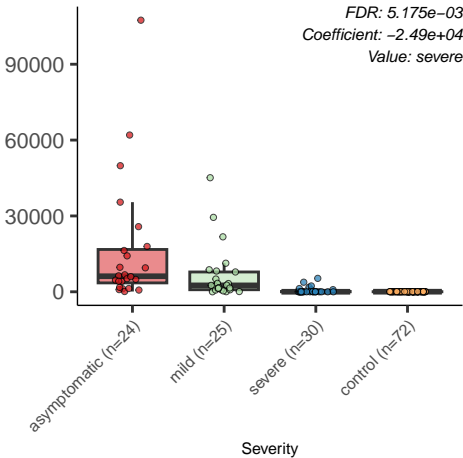
control (n=72)

Severity

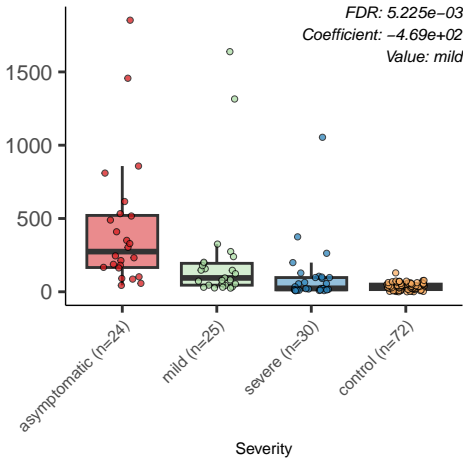
FDR: 5.129×10^{-3}
Coefficient: -2.59×10^2
Value: mild

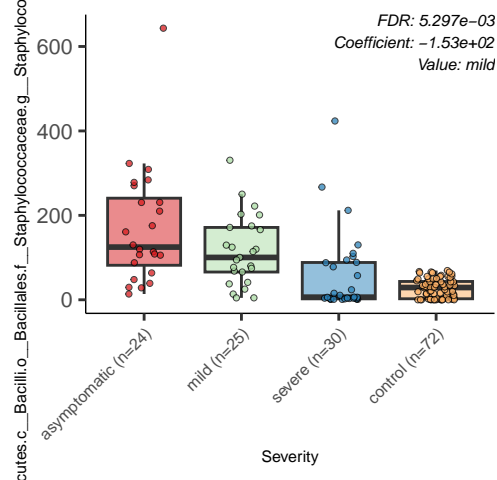


Firmicutes.c_Bacilli.o_Lactobacillales.f_Streptococcaceae.g_Str

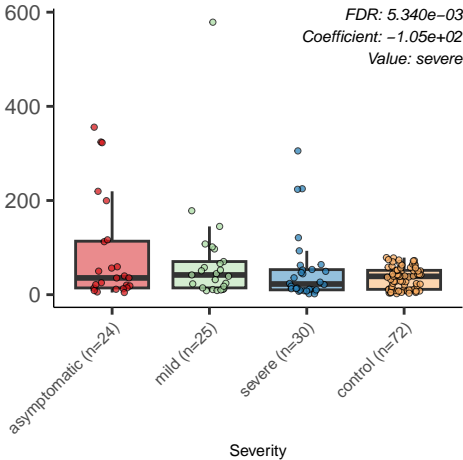


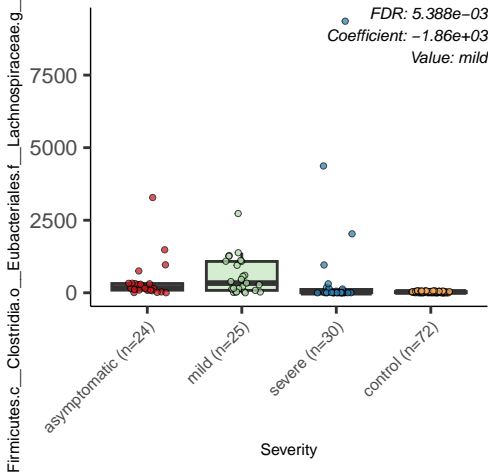
_Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillum



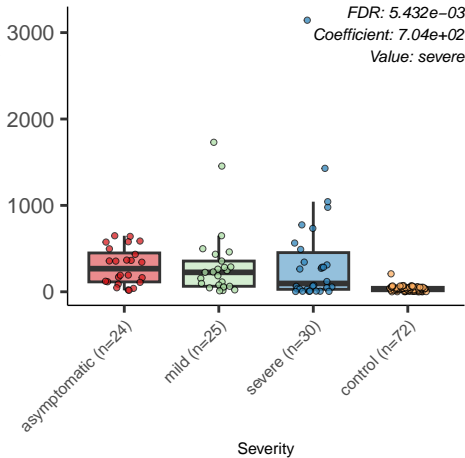


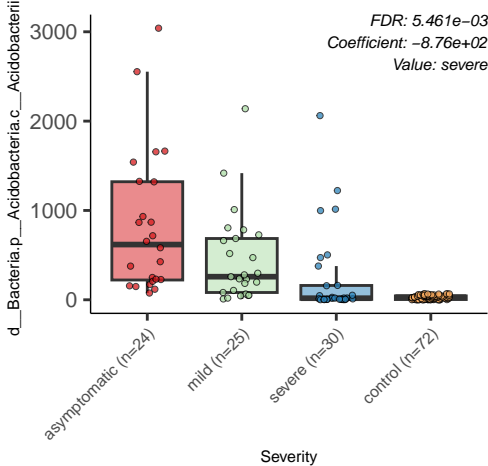
ia.p__Cyanobacteria.o__Nostocales.f__Scytonemataceae.g__Scyto

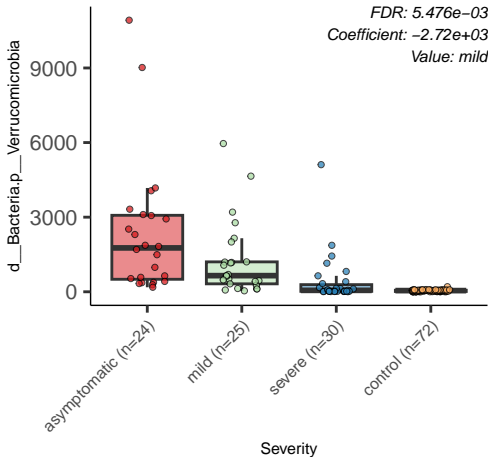


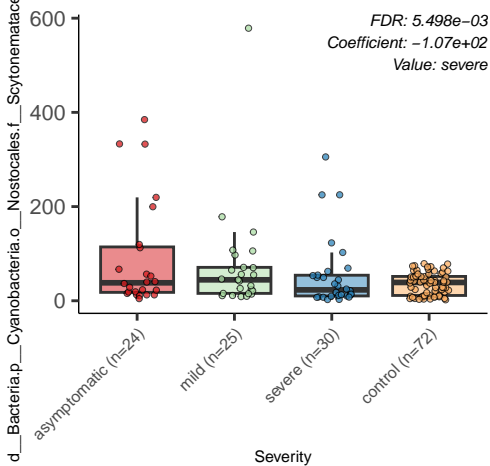


Firmicutes.c__Bacilli.o__Bacillales.f__Staphylococcaceae.g__Staph

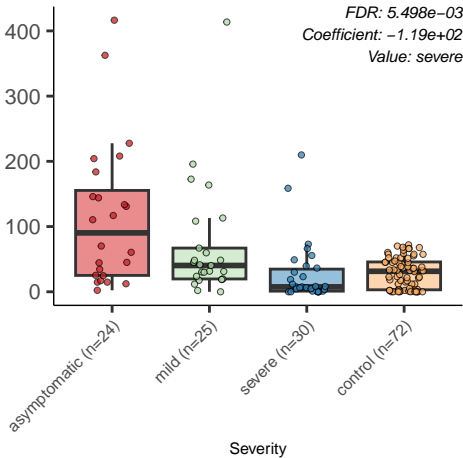


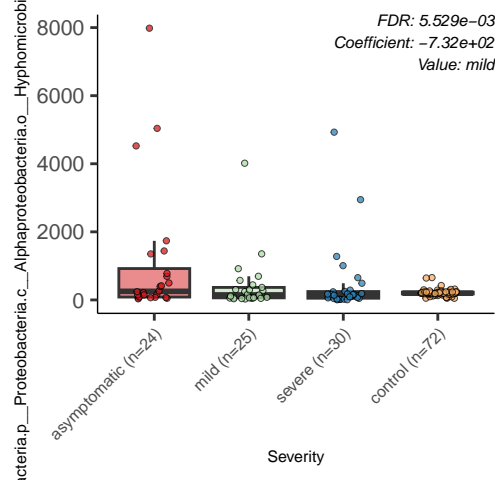


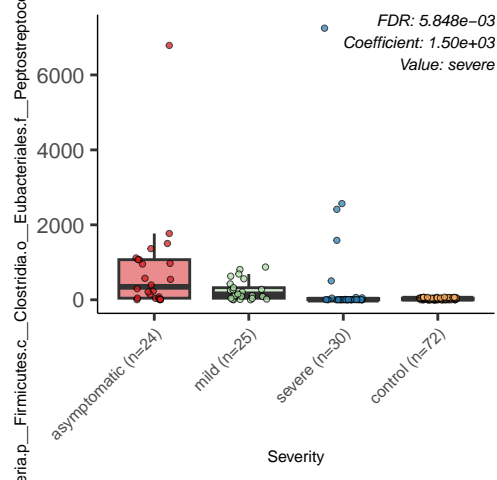


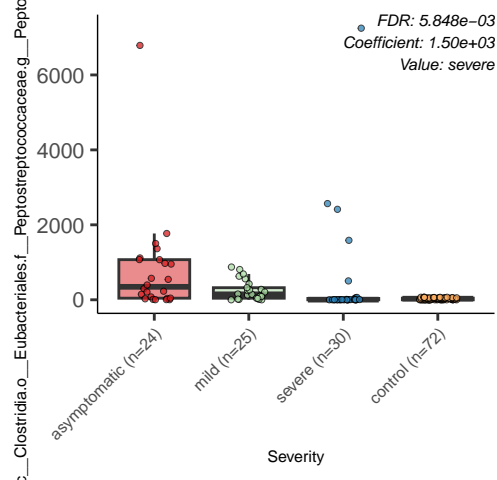


icutes.c__Mollicutes.o__Entomoplasmatales.f__Spiroplasmataceae



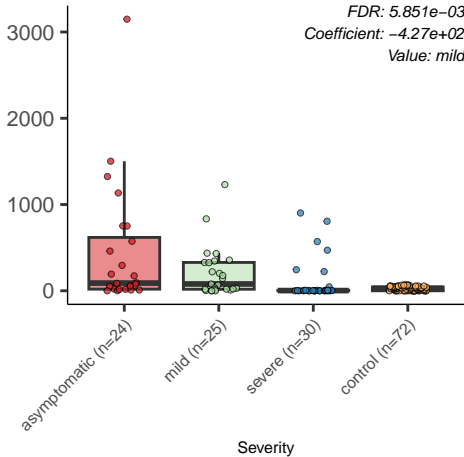




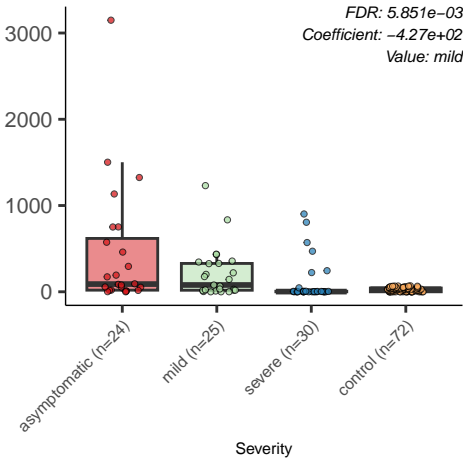


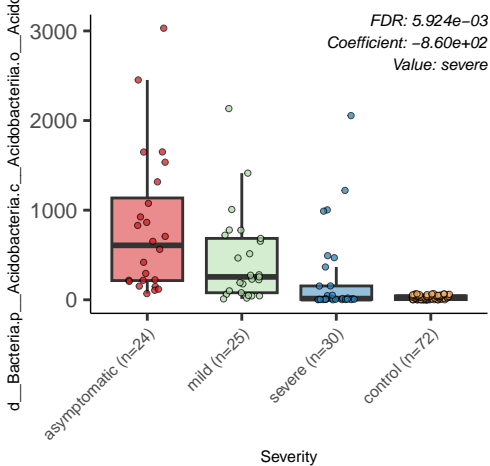
Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__Spir

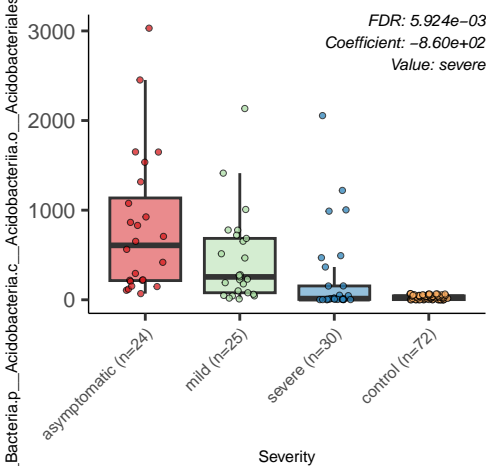
FDR: 5.851e-03
Coefficient: -4.27e+02
Value: mild



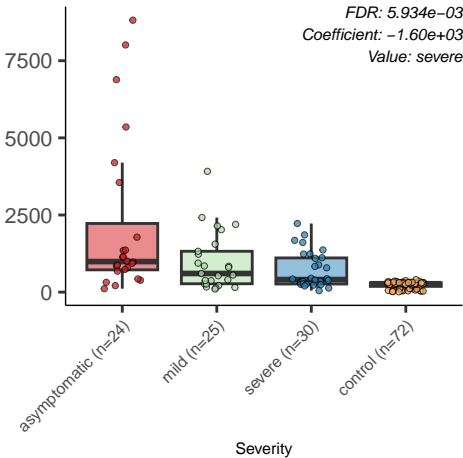
Bacteroidetes.c__Cytophagia.o__Cytophagales.f__Spirosomaceae.g

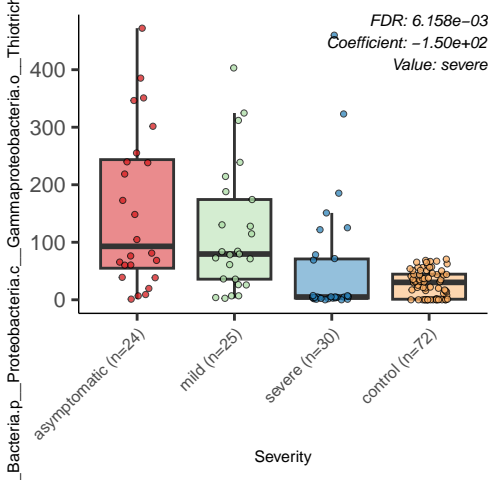






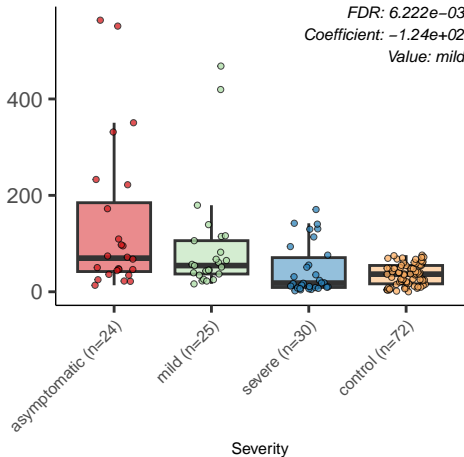
teria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingomonad



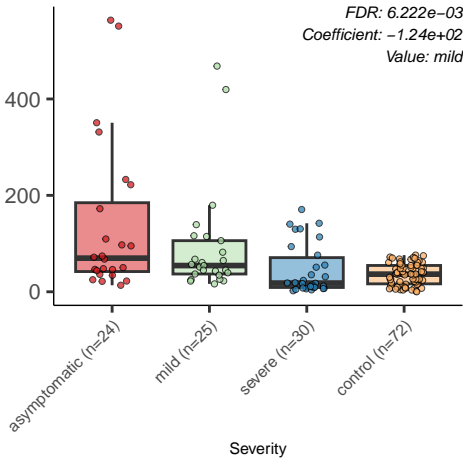


d__Bacteria.p__Armatimonadetes.c__Fimbrimona

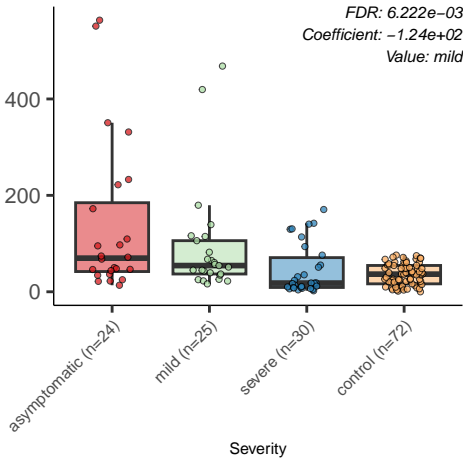
FDR: 6.222e-03
Coefficient: -1.24e+02
Value: mild



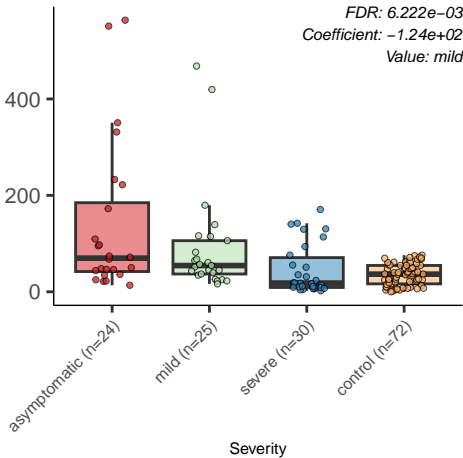
d_Bacteria.p_Armatimonadetes.c_Fimbrimonadia.o_Fin



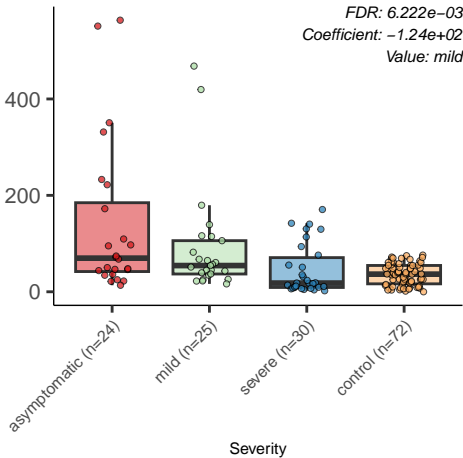
acteria.p__Armatimonadetes.c__Fimbrimonadia.o__Fimbrimonadaceae

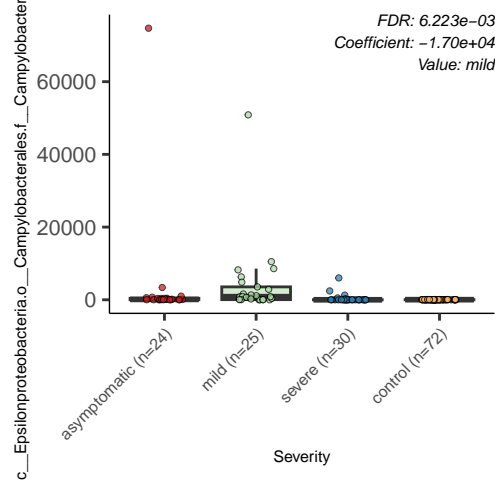


Armatimonadetes.c_Fimbrimonadia.o_Fimbrimonadales.f_Fi

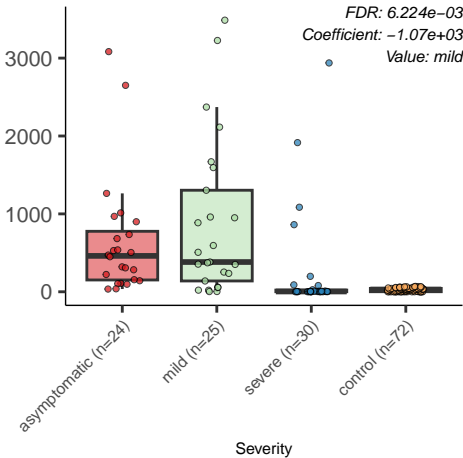


detes.c__Fimbrimonadia.o__Fimbrimonadales.f__Fimbrimonadace



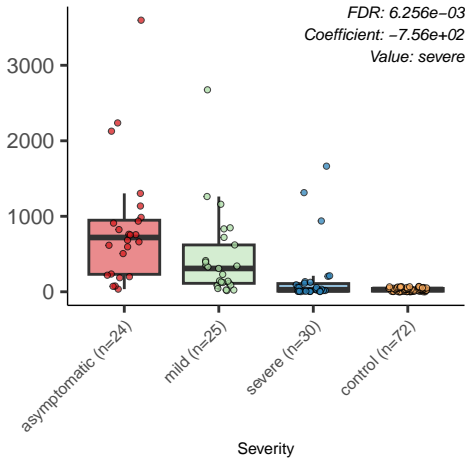


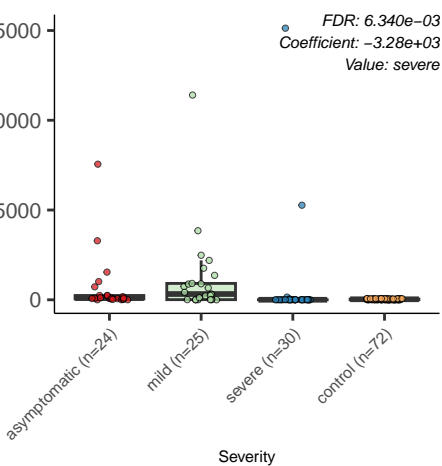
bacteria.c__Fusobacteriia.o__Fusobacteriales.f__Leptotrichiaceae

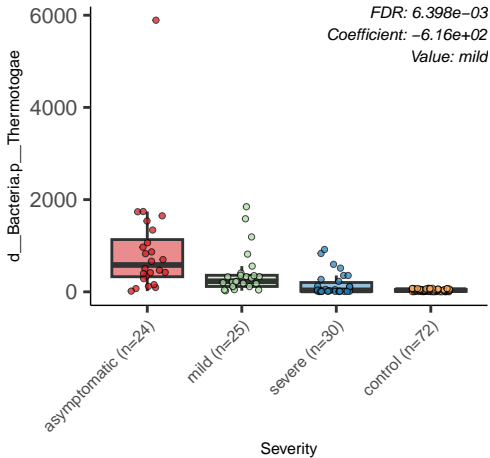


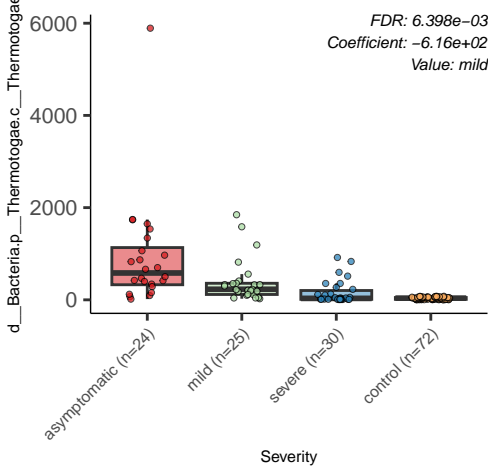
Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillum

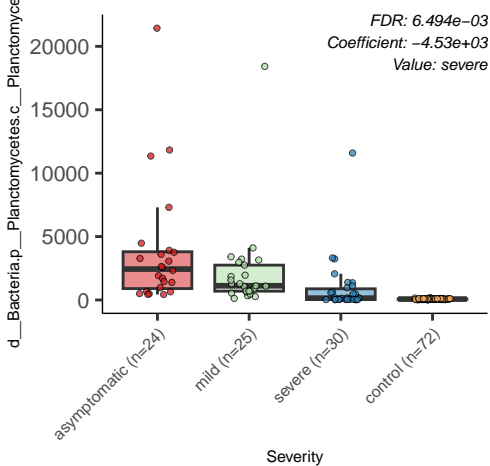
FDR: 6.256e-03
Coefficient: -7.56e+02
Value: severe

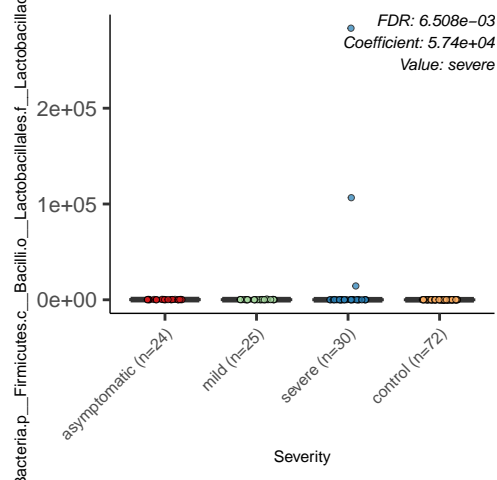


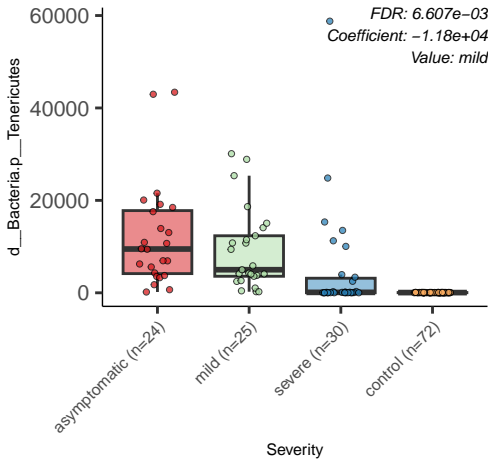




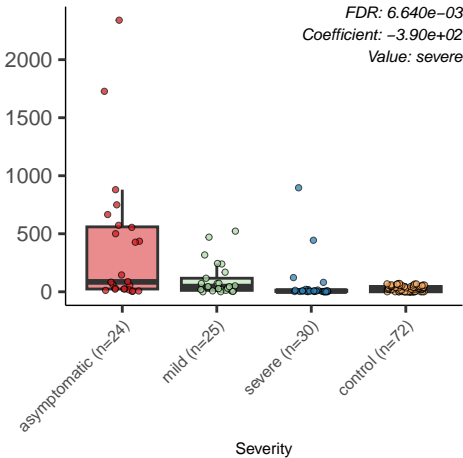




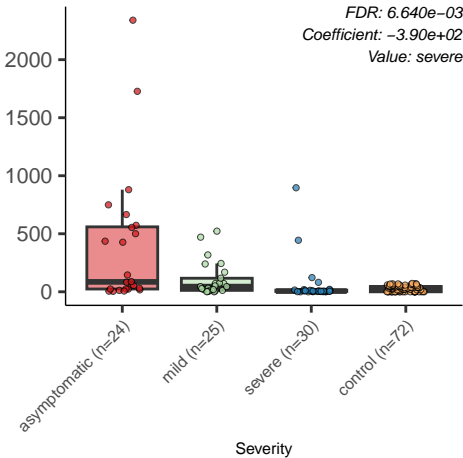




ia.p__Verrucomicrobia.c__Opitutae.o__Puniceicoccales.f__Puniceell



crobia.c__Opitutae.o__Puniceicoccales.f__Puniceicoccaceae.g__C



d_Bacteria.p_Bacteroidetes.c_Cytophagia.o_Cytophagales.

20000

15000

10000

5000

0

asymptomatic (n=24)

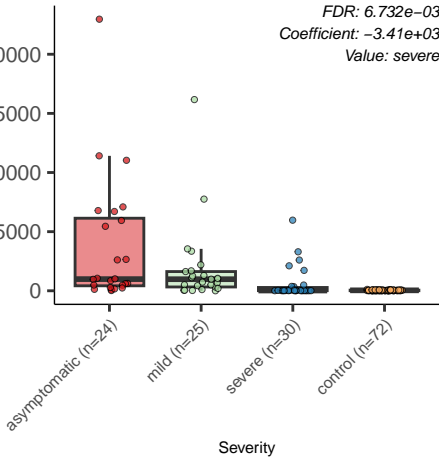
mild (n=25)

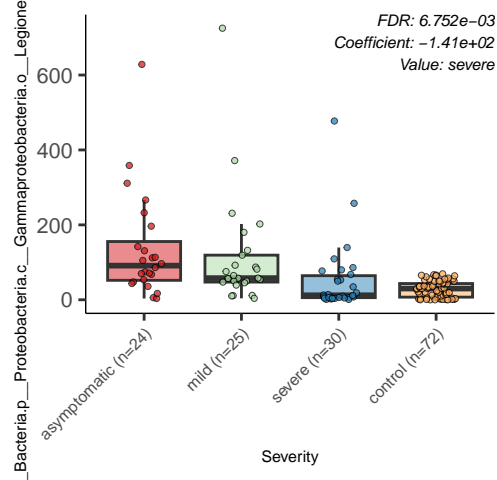
severe (n=30)

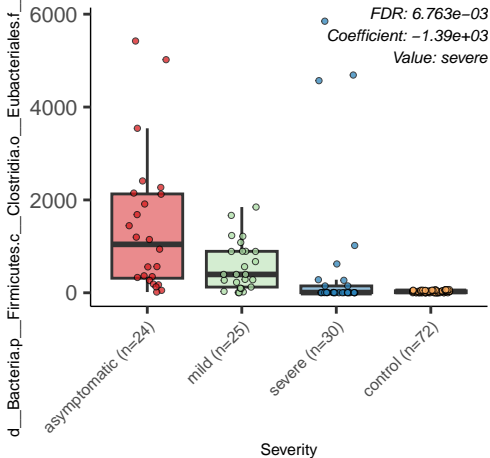
control (n=72)

Severity

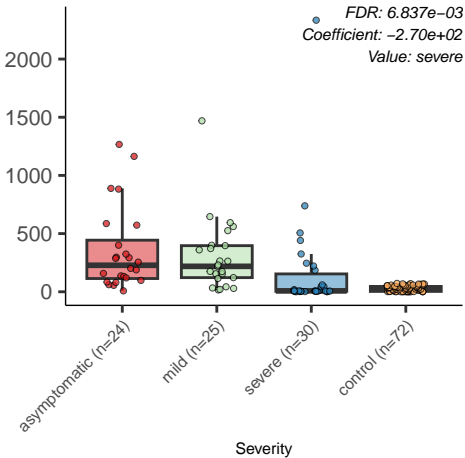
FDR: $6.732e-03$
Coefficient: $-3.41e+03$
Value: severe

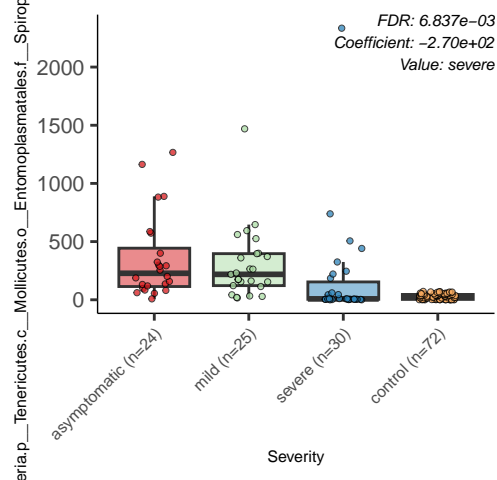


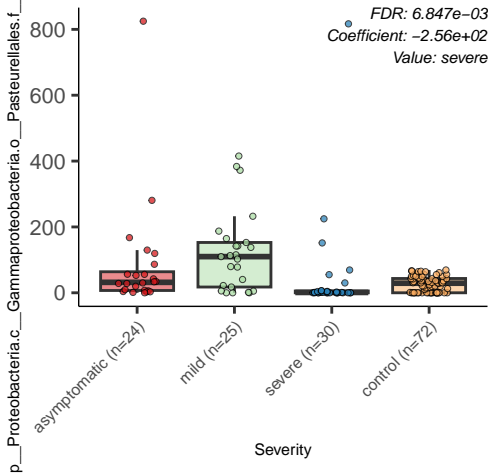


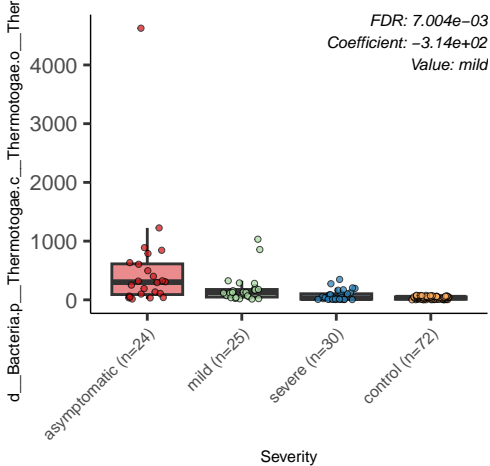


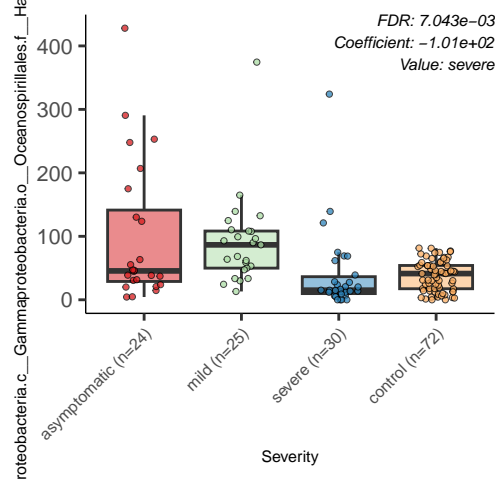
d_Bacteria.p_Tenericutes.c_Mollicutes.o_Entomoplasmatales.f

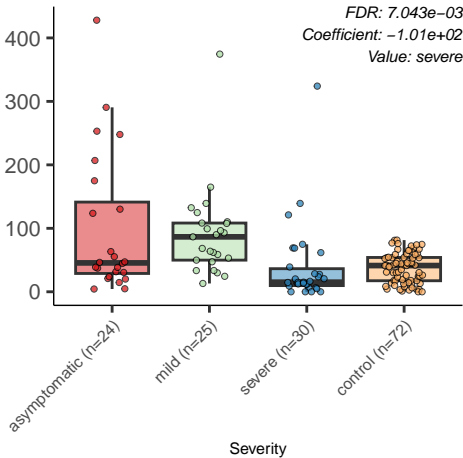


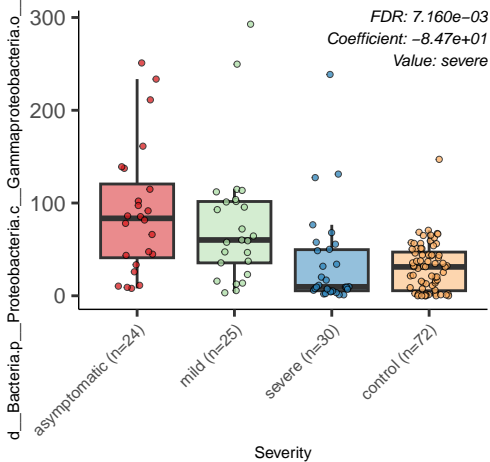


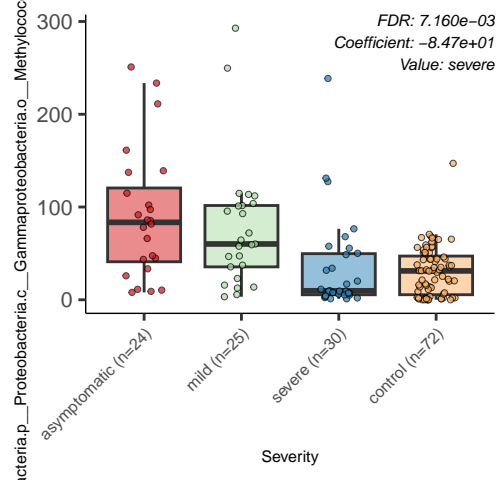


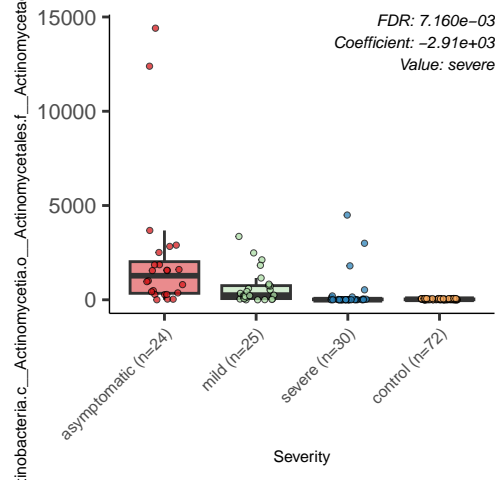


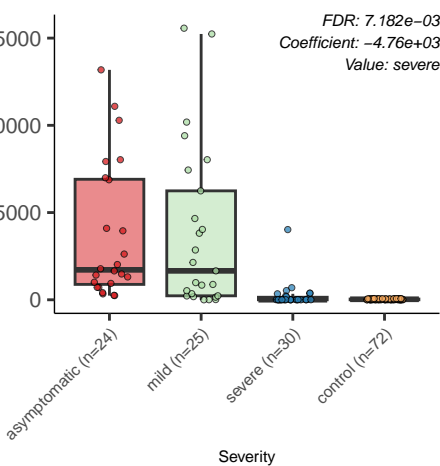


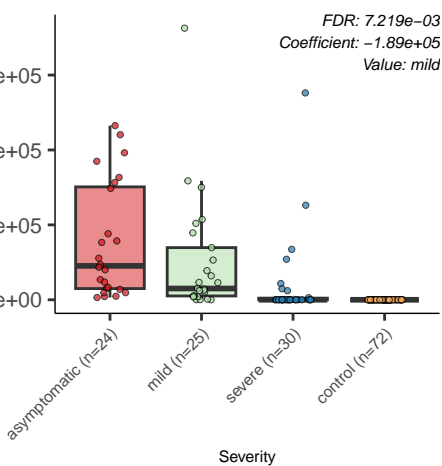


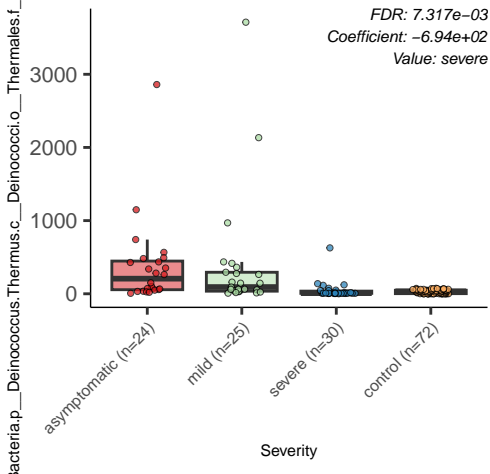




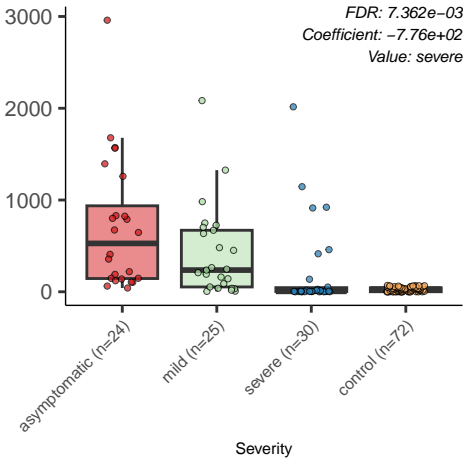




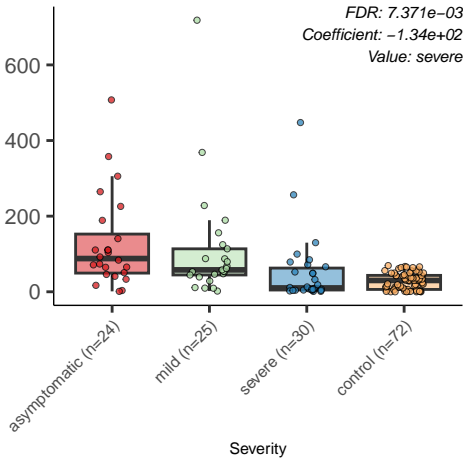




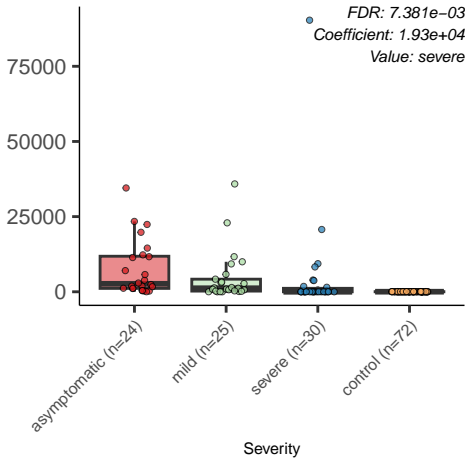
ria.p_Acidobacteria.c_Acidobacteriia.o_Acidobacteriales.f_Aci



ia.p__Proteobacteria.c__Gammaproteobacteria.o__Legionellales.f

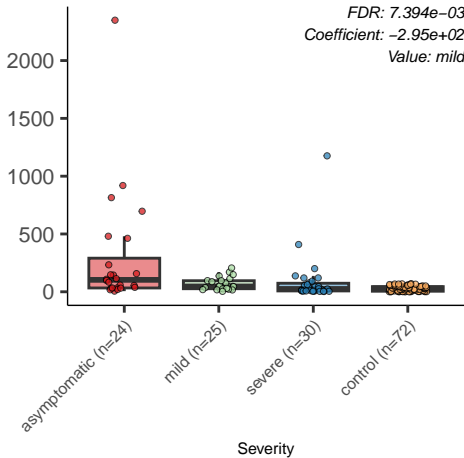


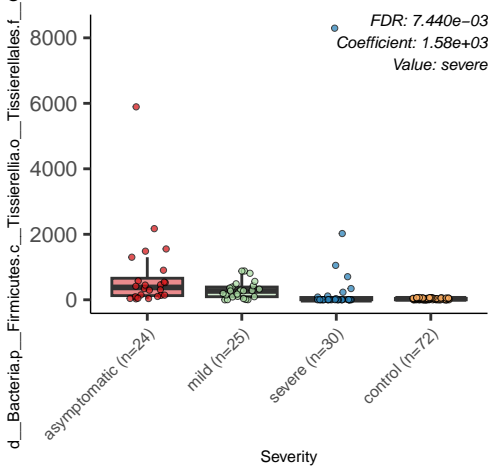
Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Prevotellaceae



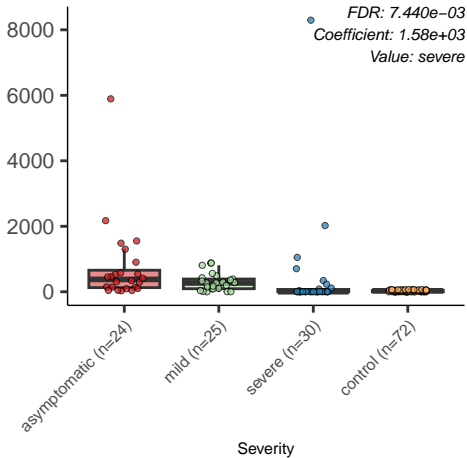
__Bacteria.p__Actinobacteria.c__Actinomycetia.o__Micrococcales.f.

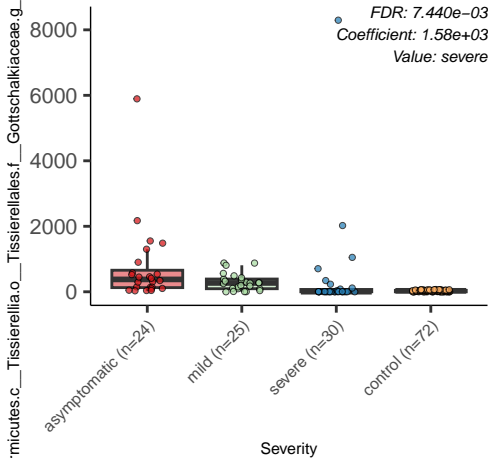
FDR: $7.394e-03$
Coefficient: $-2.95e+02$
Value: mild

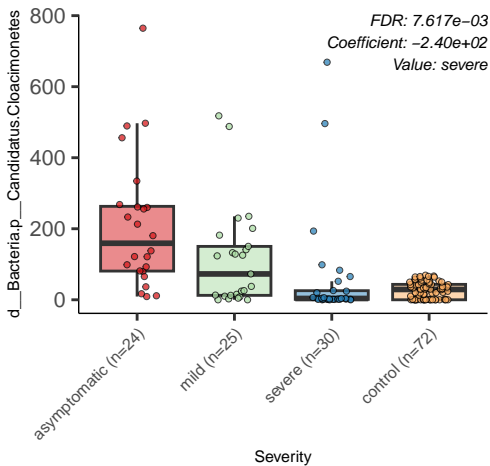


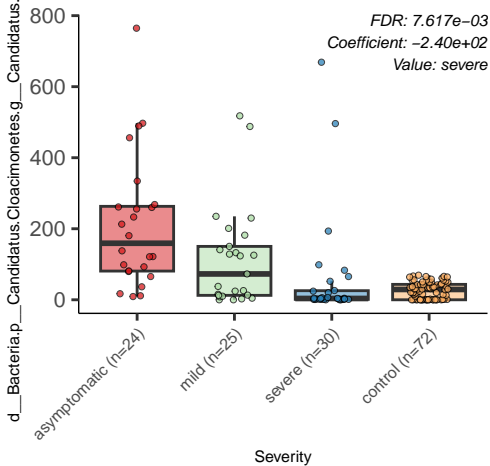


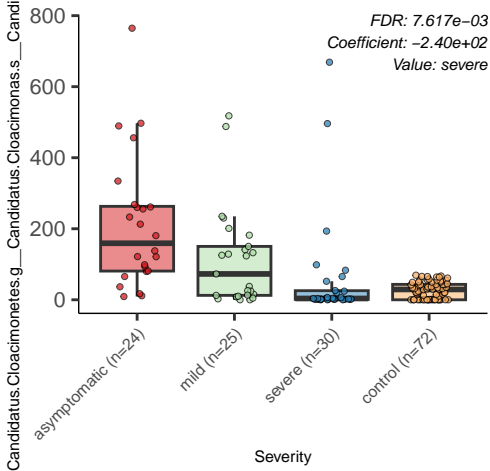
Bacteria.p_Firmicutes.c_Tissierellia.o_Tissierellales.f_Gottschalkia.g



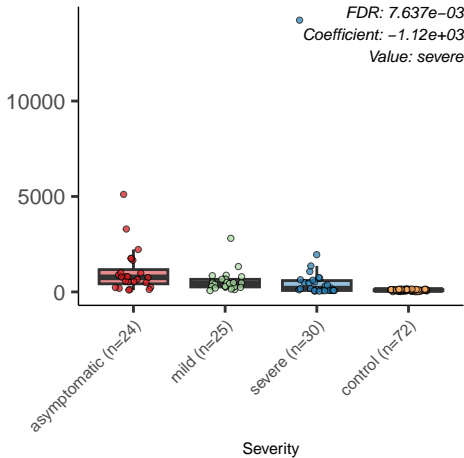




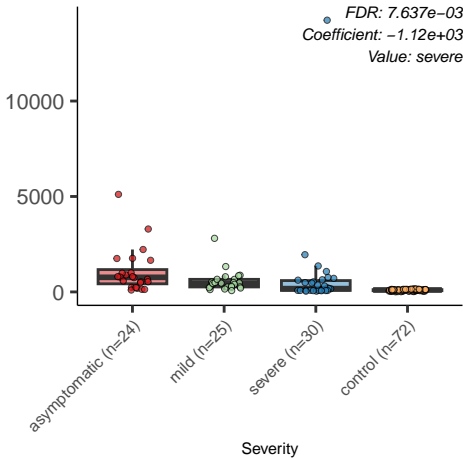


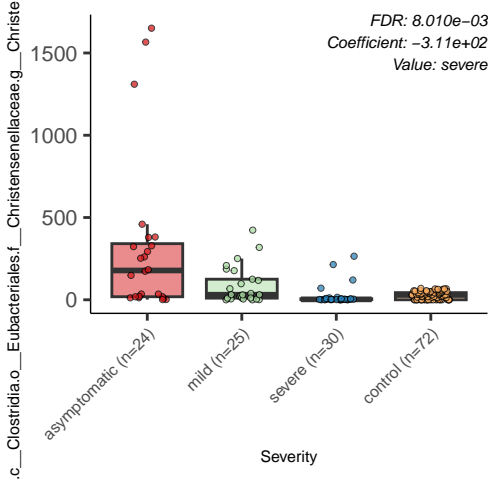


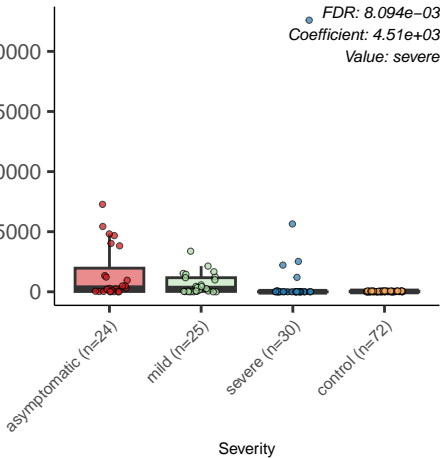
d_Bacteria.p_Actinobacteria.c_Actinomycetia.o_Strep

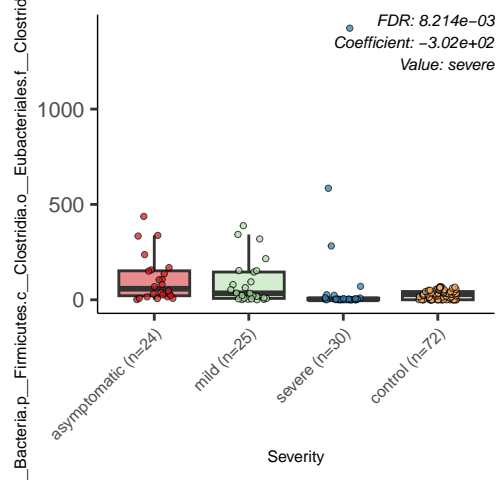


Bacteria.p_Actinobacteria.c_Actinomycetia.o_Streptomycetale









FDR: $8.214e-03$
Coefficient: $-3.02e+02$
Value: severe

1000

500

0

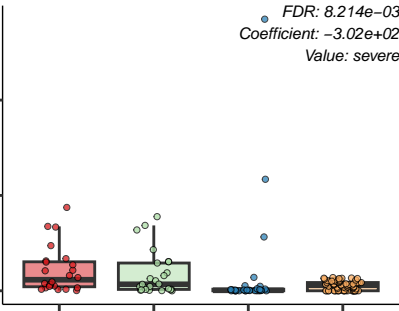
asymptomatic (n=24)

mild (n=25)

severe (n=30)

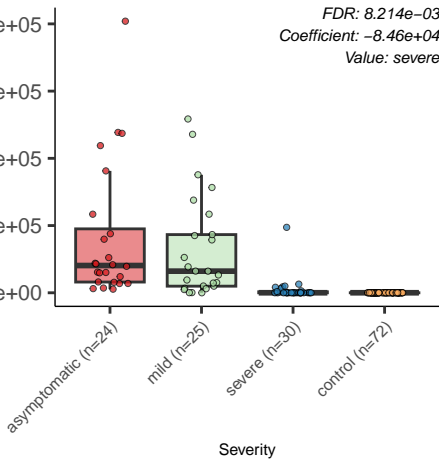
control (n=72)

Severity

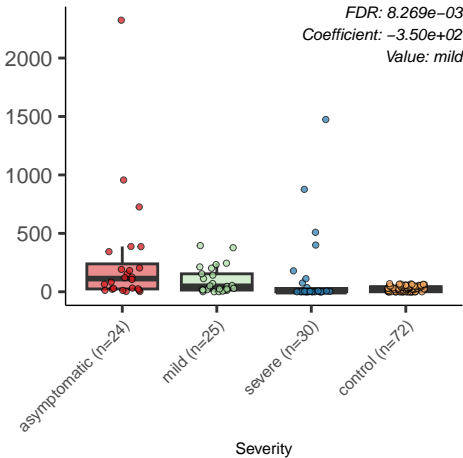


Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__S

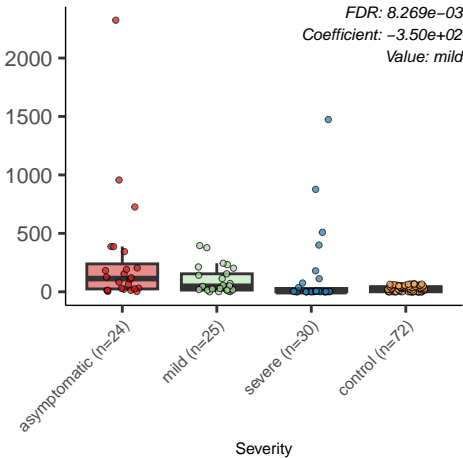
FDR: $8.214e-03$
Coefficient: $-8.46e+04$
Value: severe

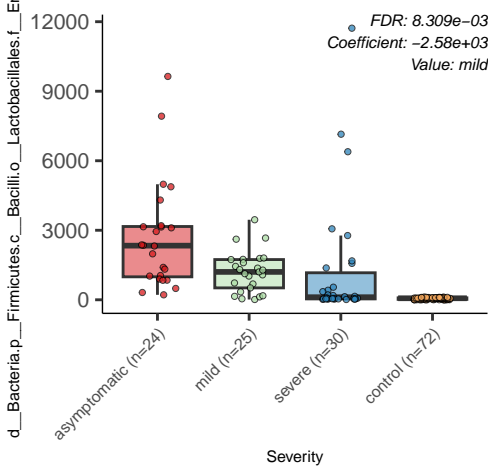


Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Eubacter



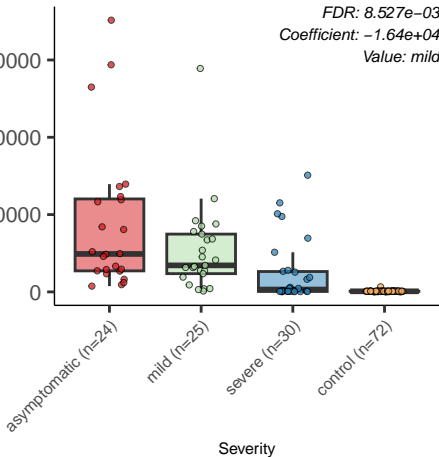
Firmicutes.c__Clostridia.o__Eubacteriales.f__Eubacteriaceae.g__A

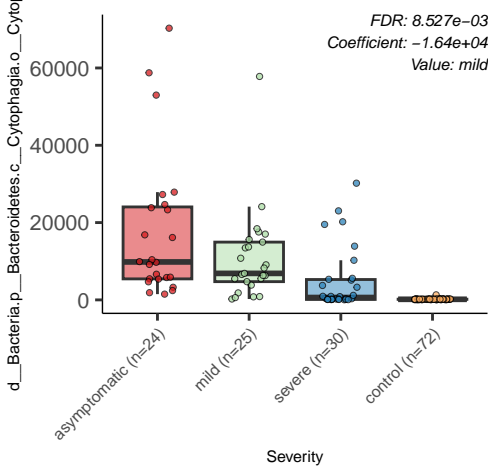


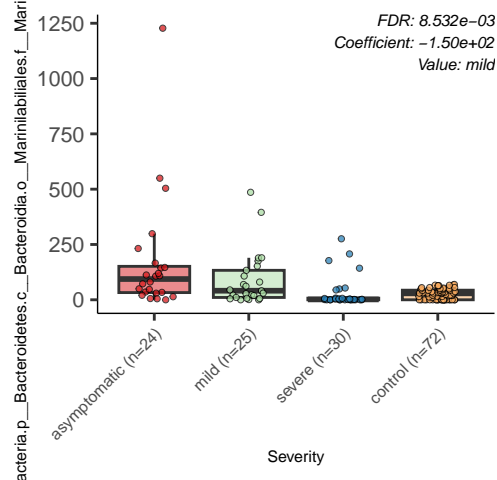


d_Bacteria.p_Bacteroidetes.c_Cytophagia

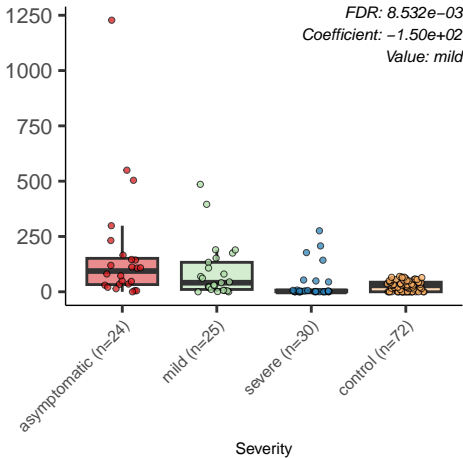
FDR: $8.527e-03$
Coefficient: $-1.64e+04$
Value: mild

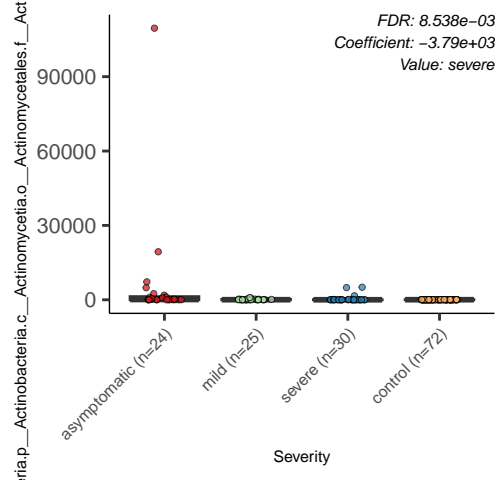






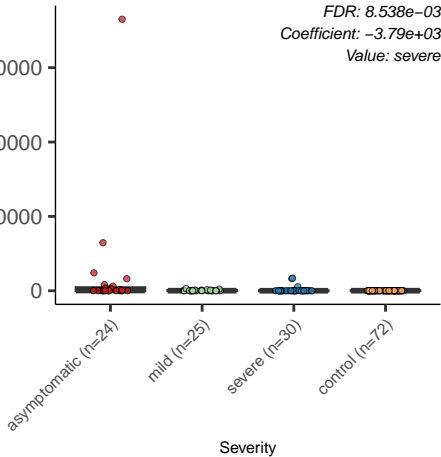
cteroidetes.c__Bacteroidia.o__Marinilabiales.f__Marinilabiales.g__

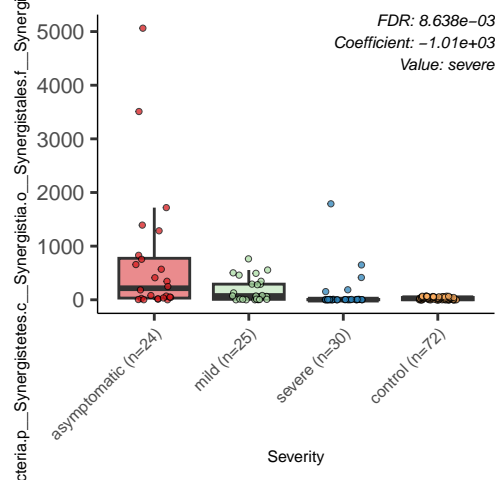




Actinomyces c. Actinomyces o. Actinomyces f. Actinomyces

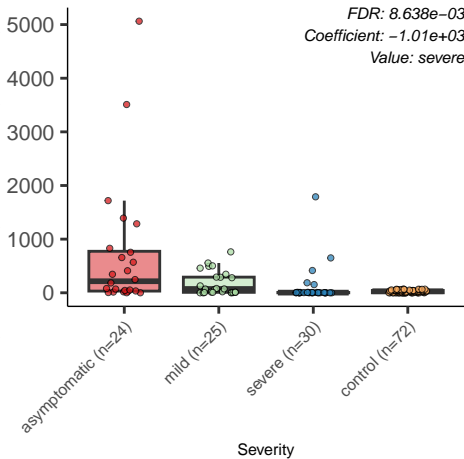
FDR: $8.538e-03$
Coefficient: $-3.79e+03$
Value: severe

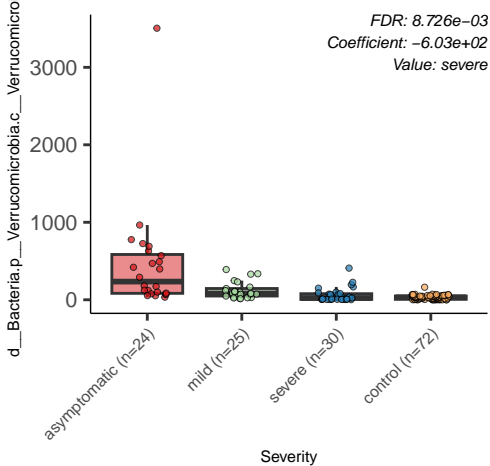


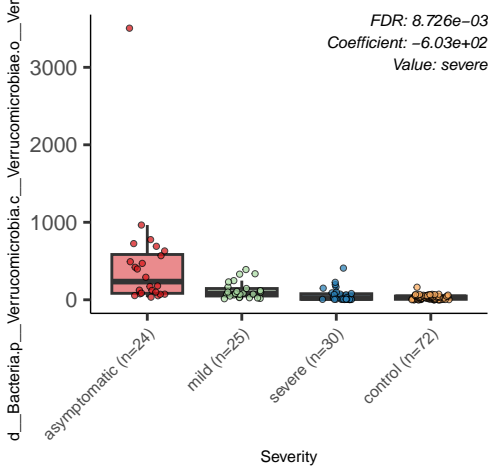


rgistetes.c__Synergistia.o__Synergistales.f__Synergistaceae.g__Py

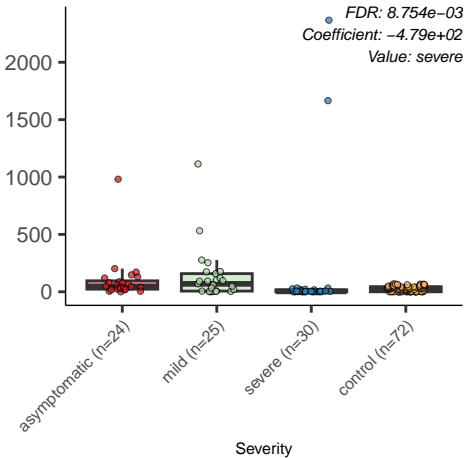
FDR: $8.638e-03$
Coefficient: $-1.01e+03$
Value: severe



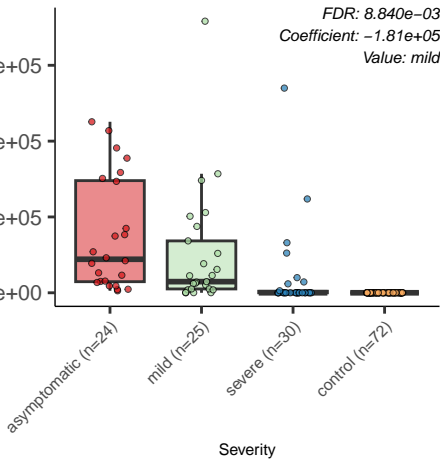




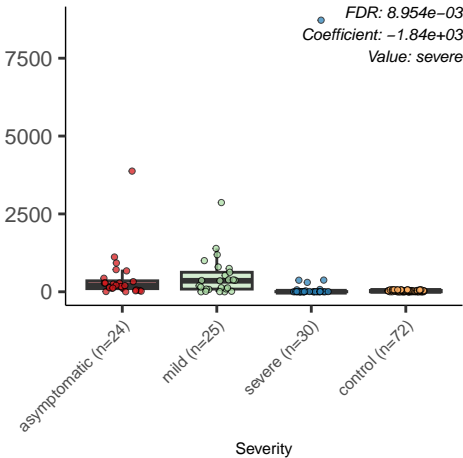
obacteria.c__Gammaproteobacteria.o__Enterobacterales.f__Yersini



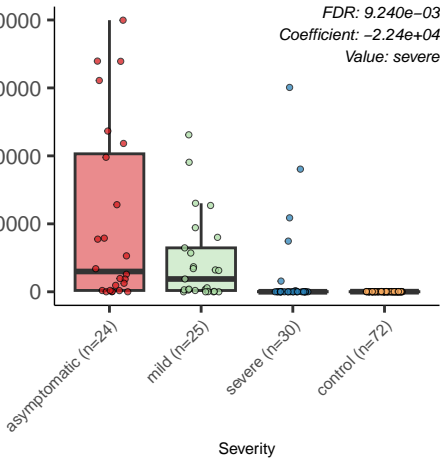
ria.p__Fusobacteria.c__Fusobacteriia.o__Fusobacteriales.f__Fusob



Gammaaproteobacteria.o__Pasteurellales.f__Pasteurellaceae.g__Ag



eroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidaceae.g__B



d_Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__R

10000

5000

0

asymptomatic (n=24)

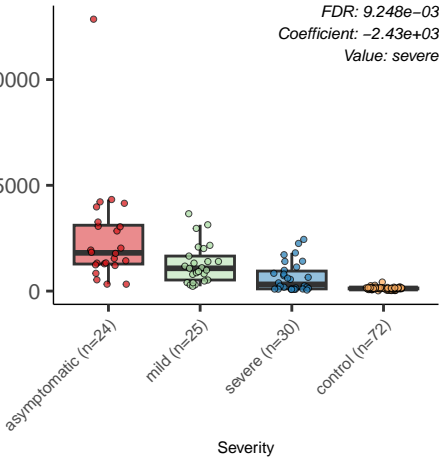
mild (n=25)

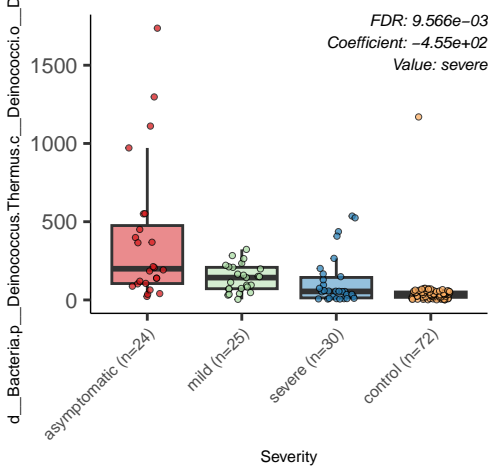
severe (n=30)

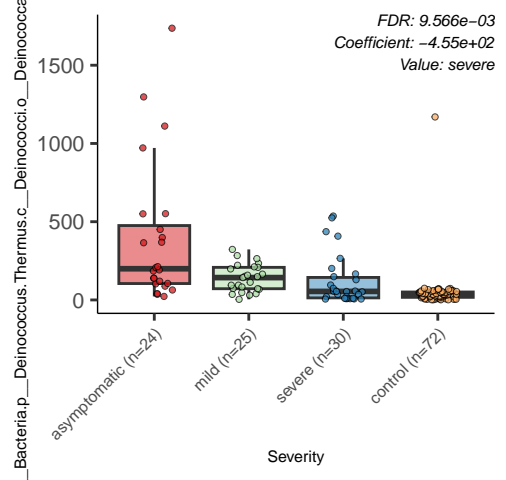
control (n=72)

Severity

FDR: $9.248e-03$
Coefficient: $-2.43e+03$
Value: severe

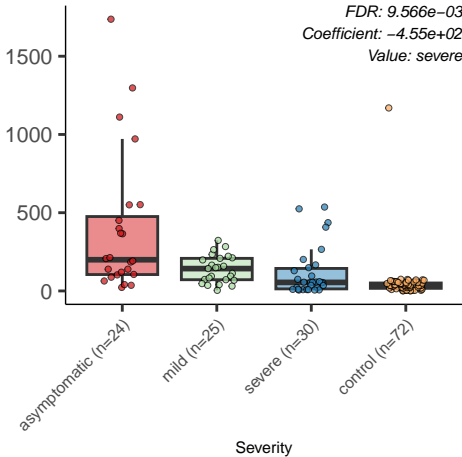




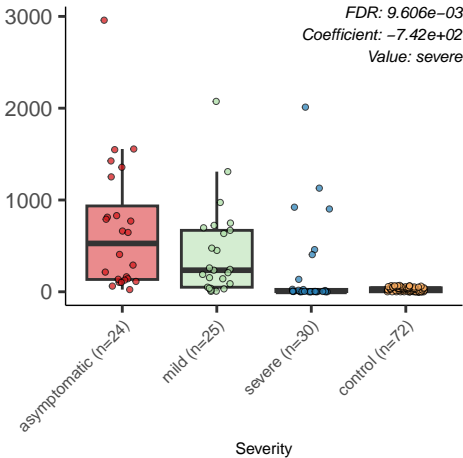


a.p._Deinococcus.Thermus.c._Deinococci.o._Deinococcales.f._D

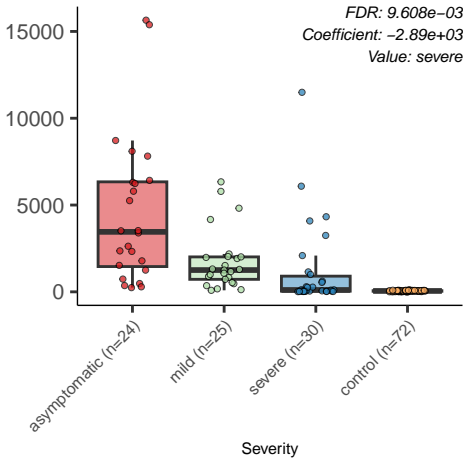
FDR: $9.566e-03$
Coefficient: $-4.55e+02$
Value: severe

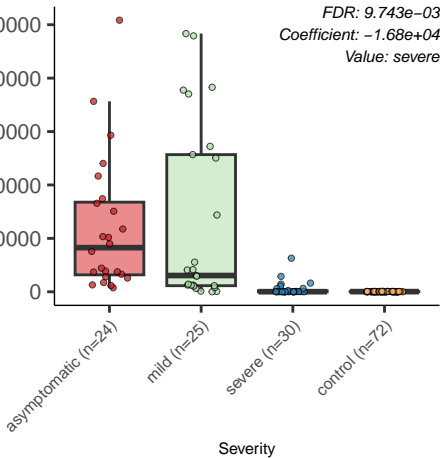


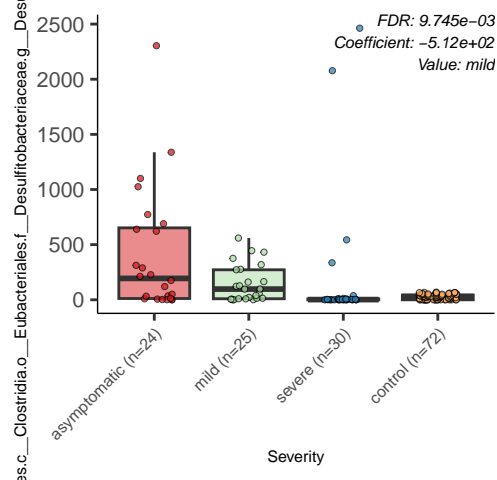
oacteria.c_Acidobacteriia.o_Acidobacteriales.f_Acidobacteriaceae

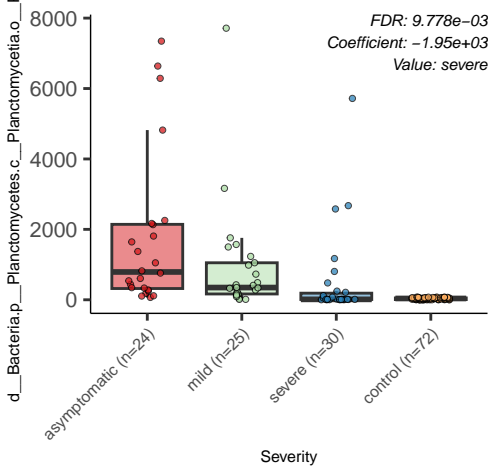


d_Bacteria.p__Proteobacteria.c__Deltaproteobac

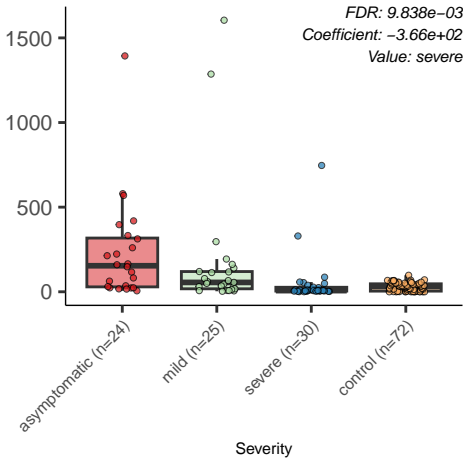


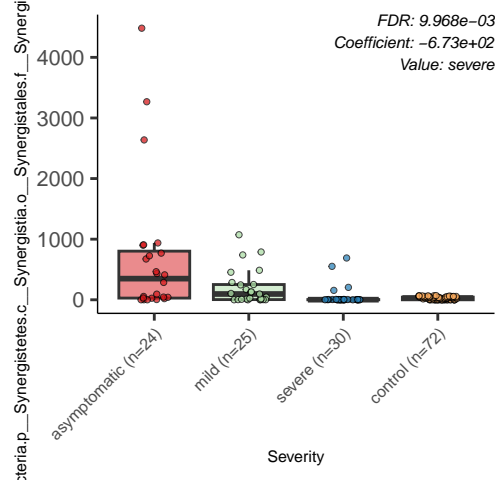


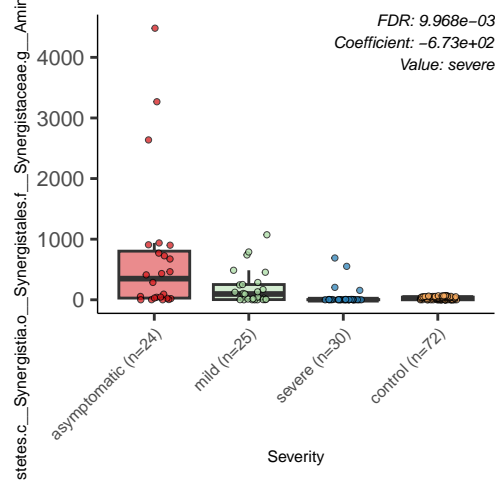


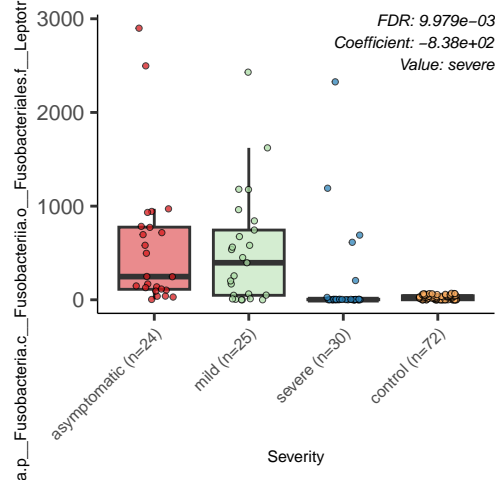


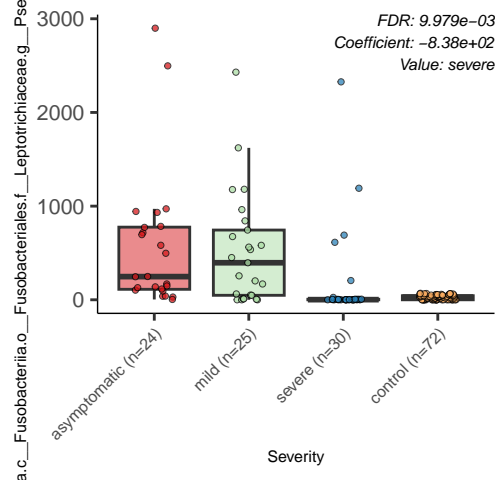
a.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillales.f__



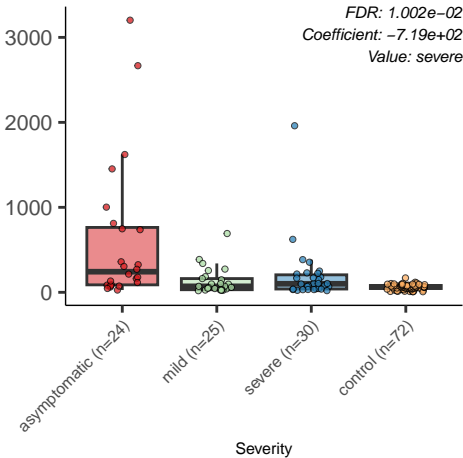


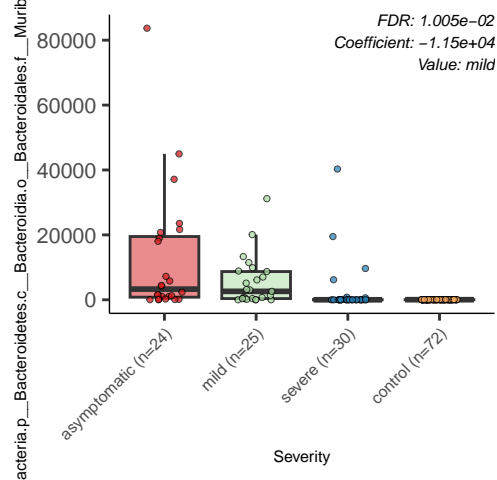


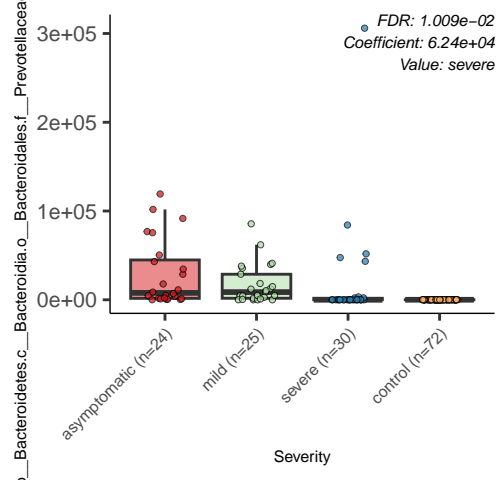


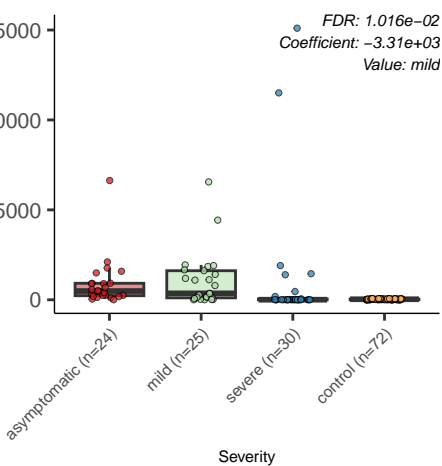


cteria.p__Proteobacteria.c__Alphaproteobacteria.o__Hyphomicrobia

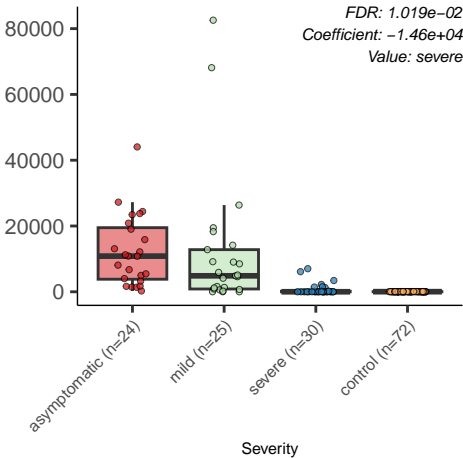


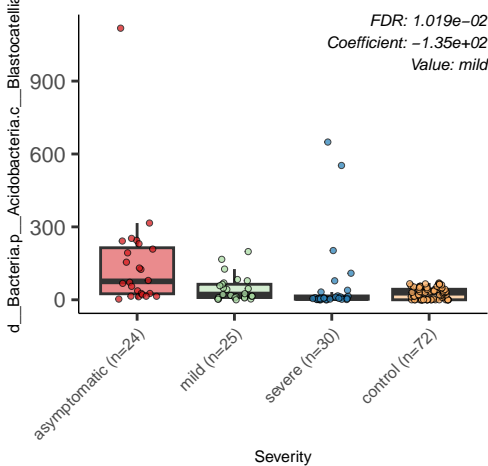


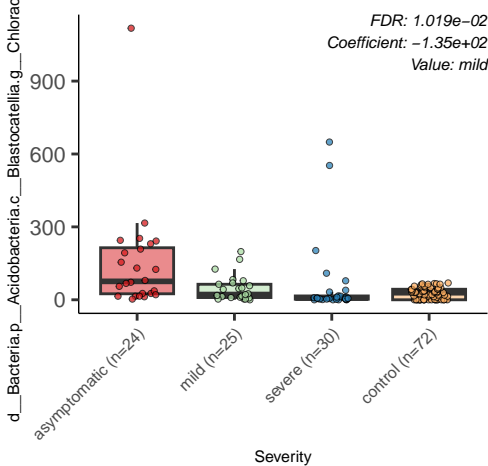


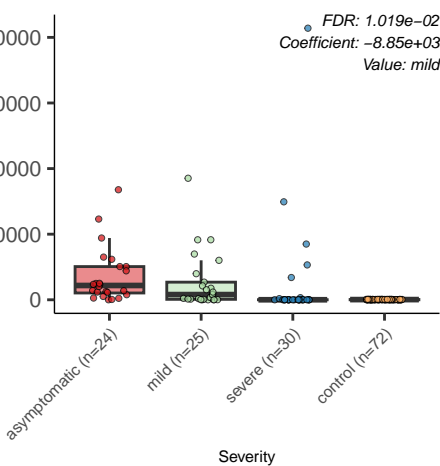


firmicutes.c_Bacilli.o_Lactobacillales.f_Streptococcaceae.g_Str









d__Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.

20000

15000

10000

5000

0

asymptomatic (n=24)

mild (n=25)

severe (n=30)

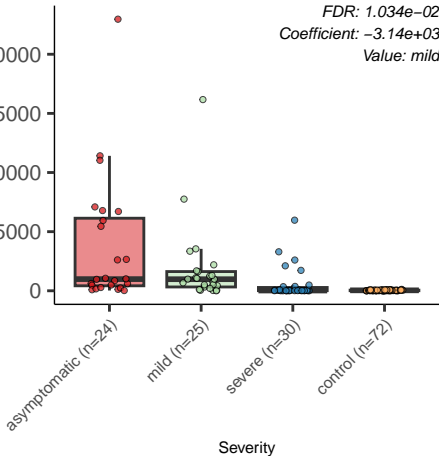
control (n=72)

Severity

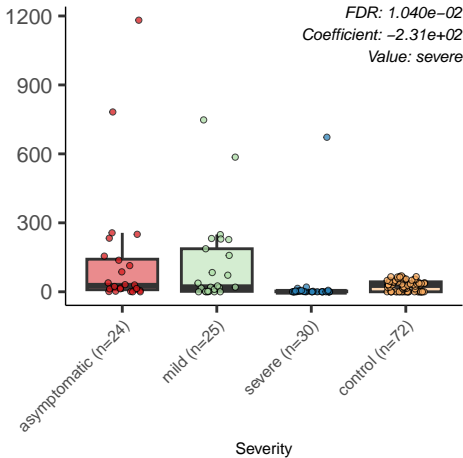
FDR: $1.034e-02$

Coefficient: $-3.14e+03$

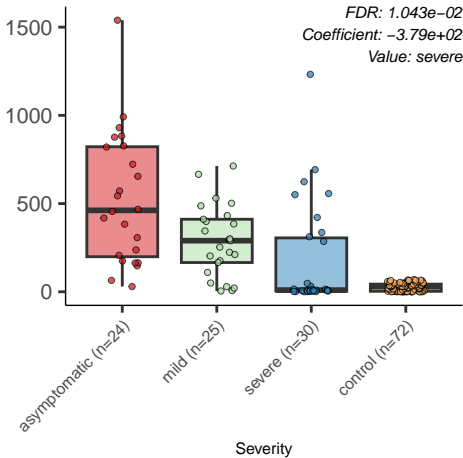
Value: mild



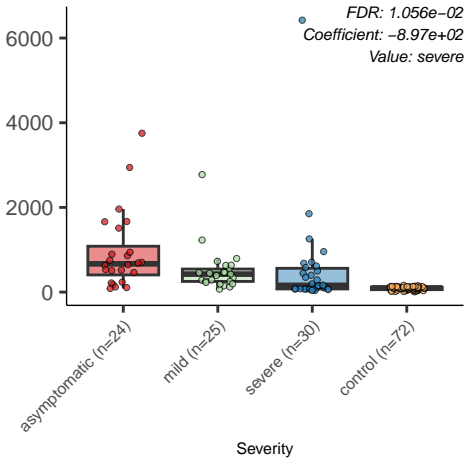
chaetes.c__Spirochaetia.o__Spirochaetales.f__Treponemataceae.g

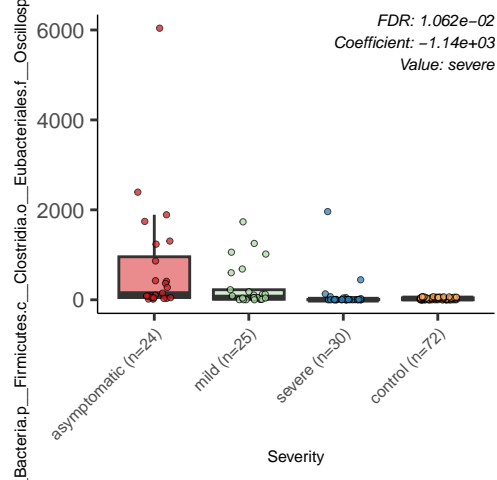


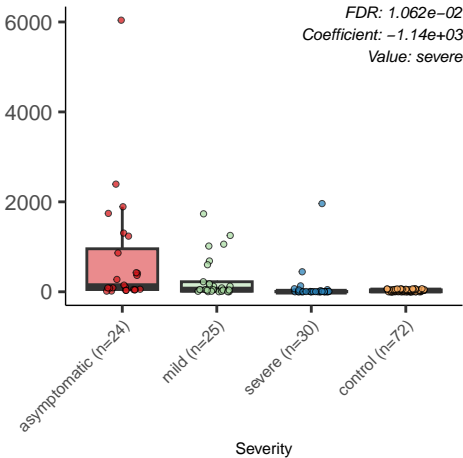
Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Bacillaceae.g_B

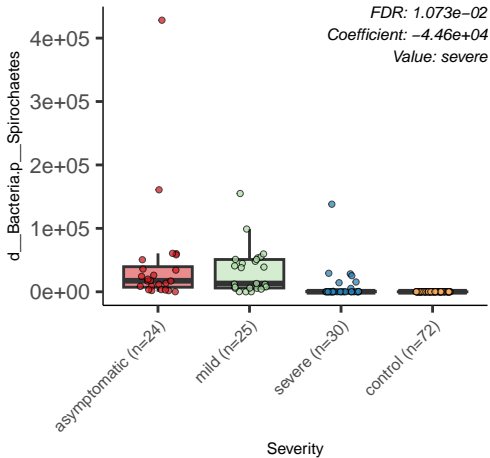


a.p_Actinobacteria.c_Actinomycetia.o_Streptomycetales.f_Stre



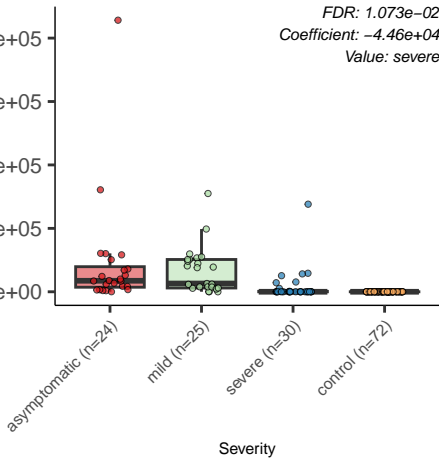




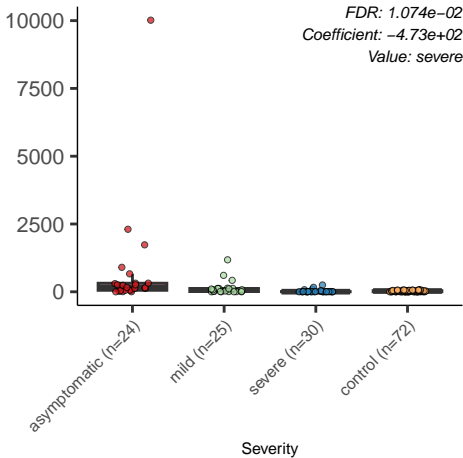


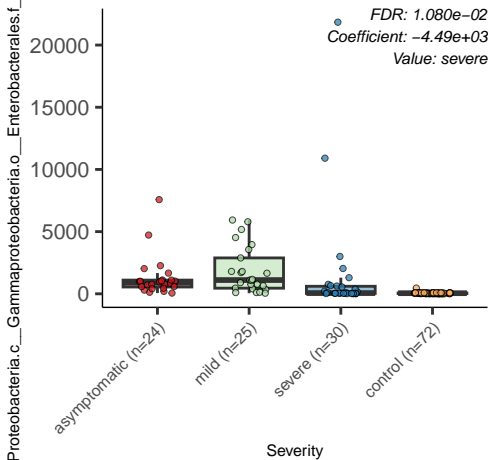
d__Bacteria.p__Spirochaetes.c__Spirochaetia

FDR: $1.073e-02$
Coefficient: $-4.46e+04$
Value: severe

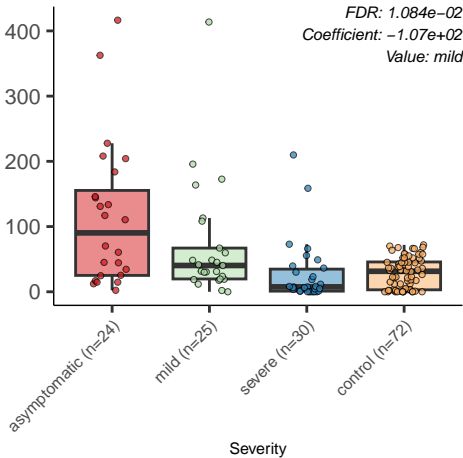


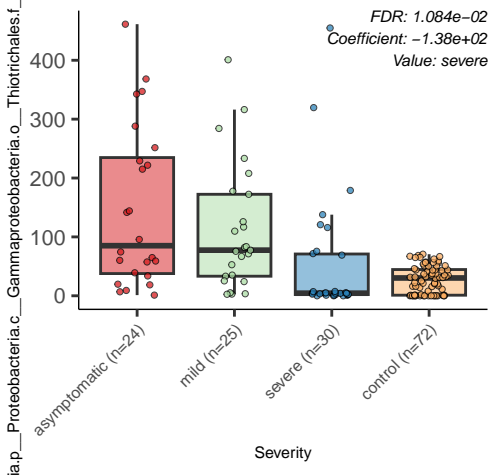
es.c__Negativicutes.o__Selenomonadales.f__Selenomonadaceae.g__

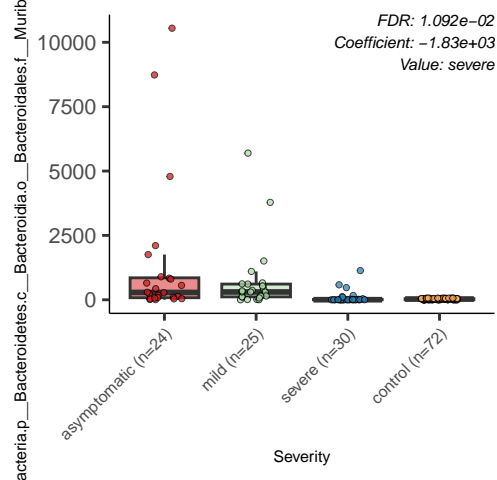


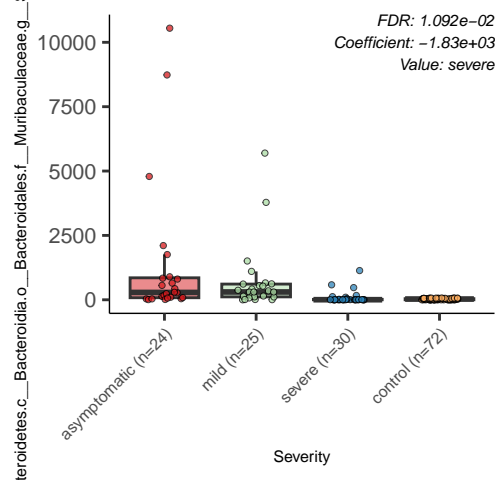


icutes.c__Mollicutes.o__Entomoplasmatales.f__Spiroplasmataceae

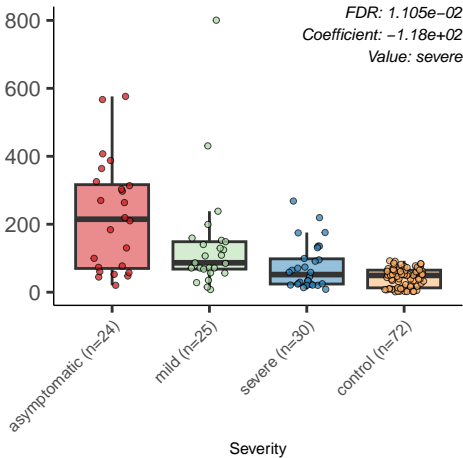




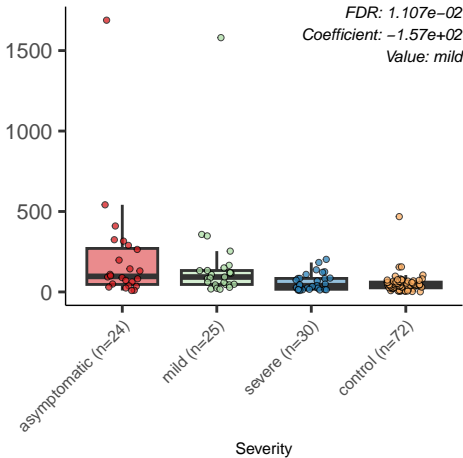


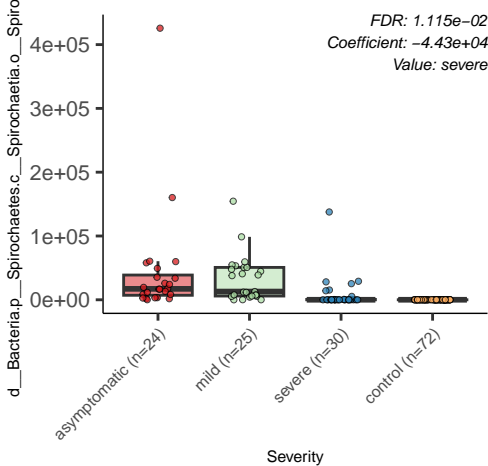


acteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rhodobacter

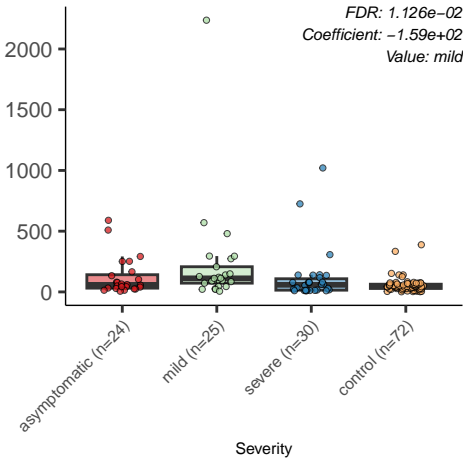


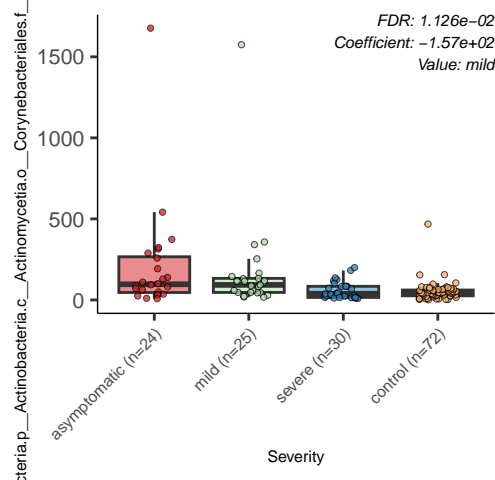
d_Bacteria.p_Actinobacteria.c_Actinomycetia.o_Corynebacteri



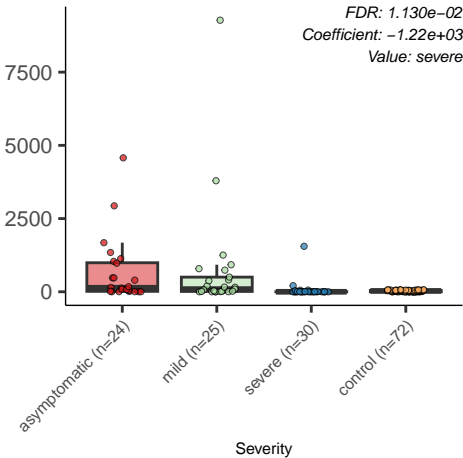


terial.c_Actinomycetia.o_Propionibacteriales.f_Propionibacteriac

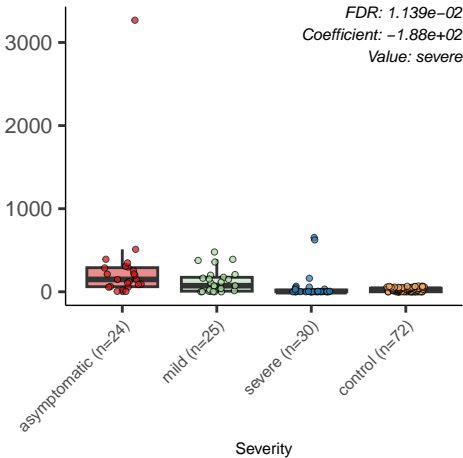




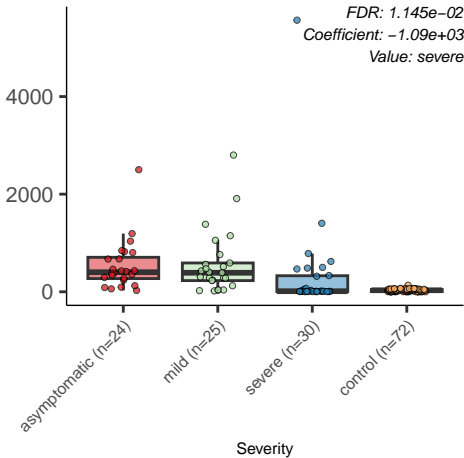
o_Proteobacteria.c_Gammaproteobacteria.o_Thiotrichales.f_Pi



arimonadia.o__Candidatus.Nanosynbacterales.f__Candidatus.Nano

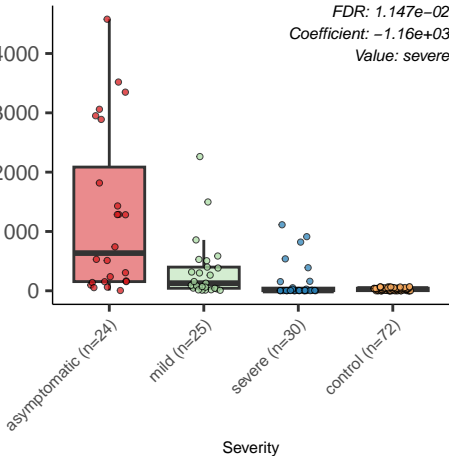


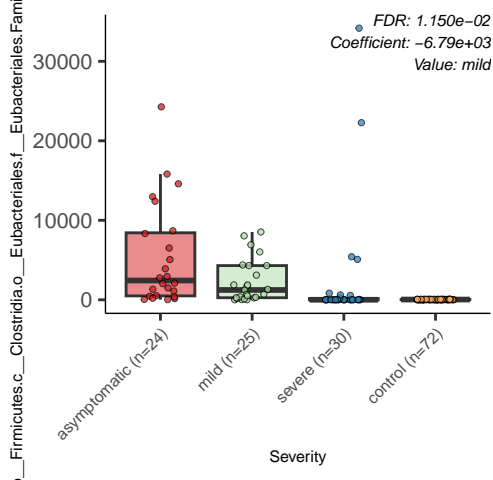
terial.c__Gammaproteobacteria.o__Enterobacterales.f__Enterobact

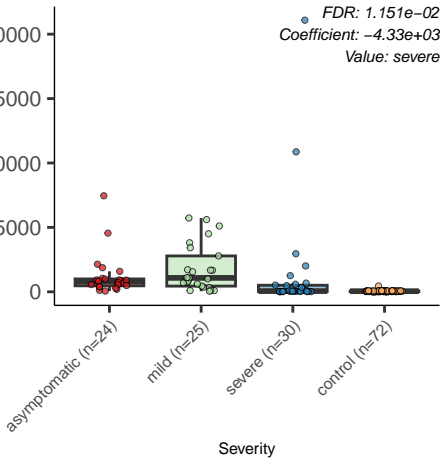


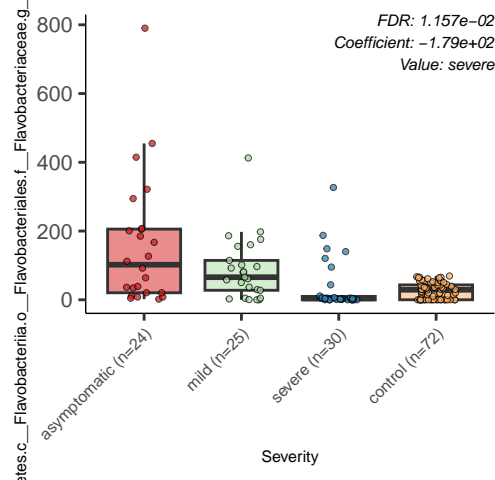
d_Bacteria.p_Chloroflexi.c_Dehalococcoid

FDR: 1.147×10^{-2}
Coefficient: -1.16×10^3
Value: severe

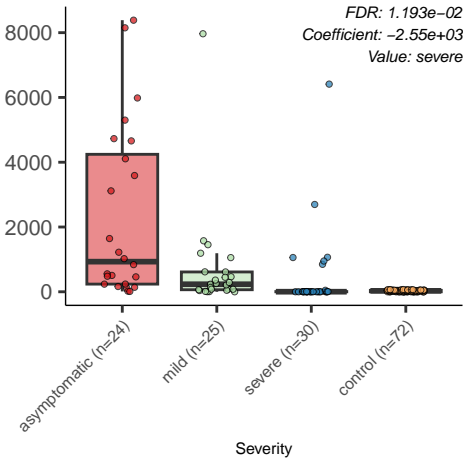


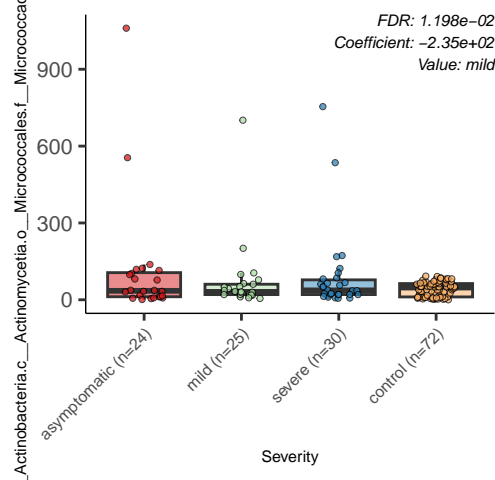




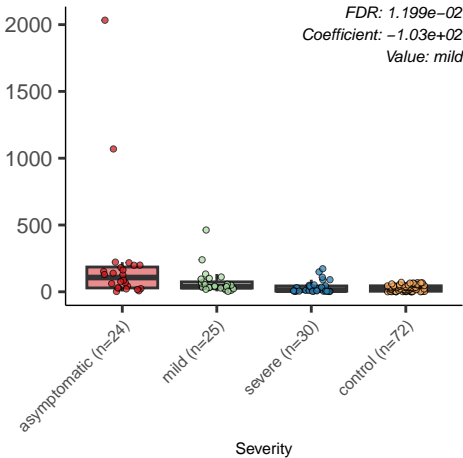


utes.c__Negativicutes.o__Selenomonadales.f__Selenomonadaceae

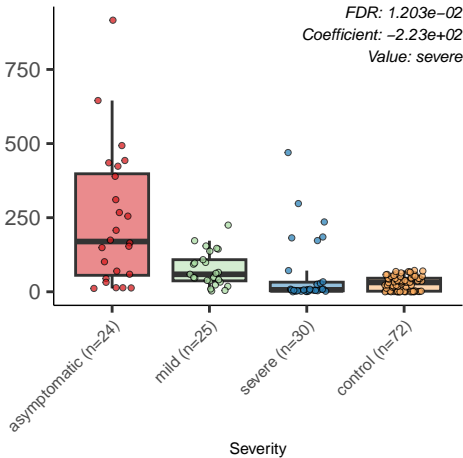


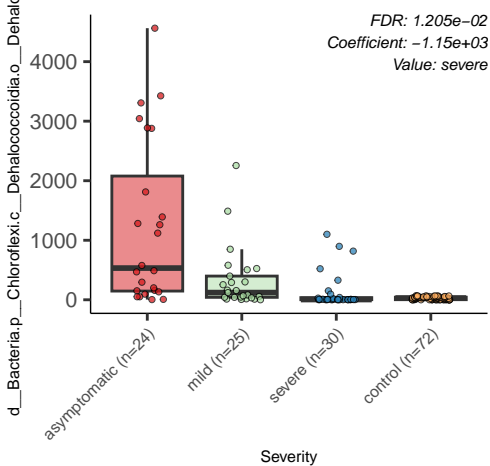


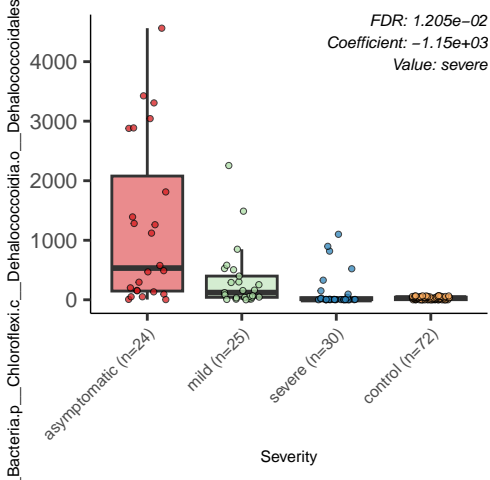
eria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonas

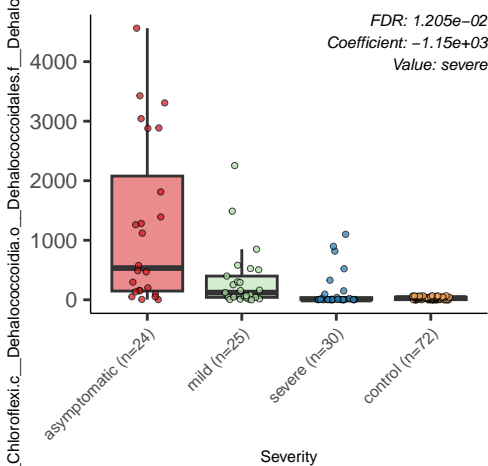


bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfuromon

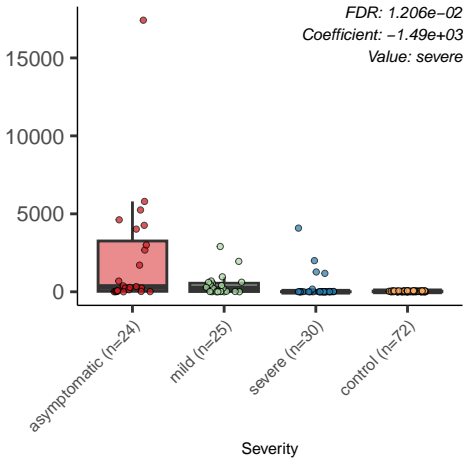


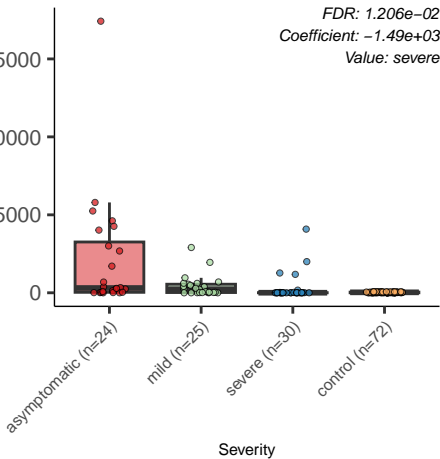




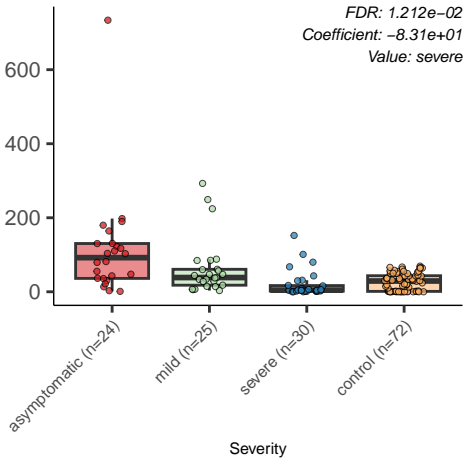


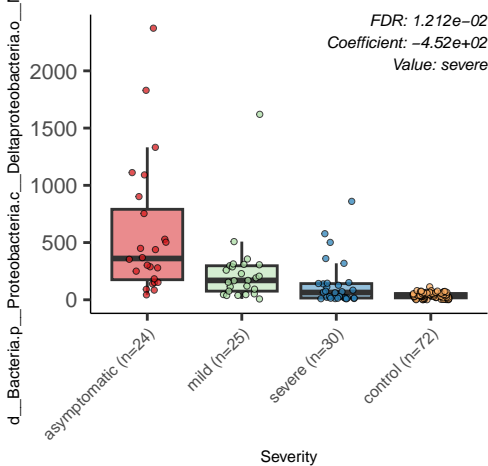
Bacteria.p_Bacteroidetes.c__Cytophagia.o__Cytophagales.f__Spi

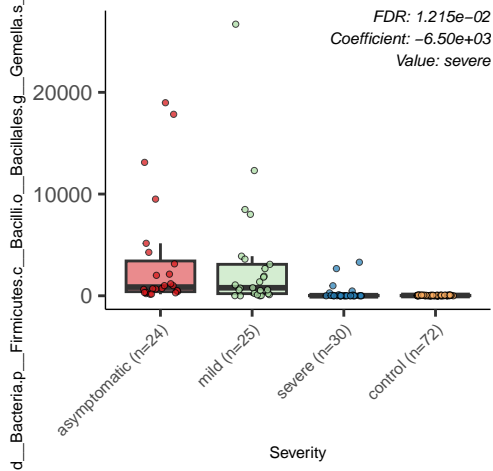




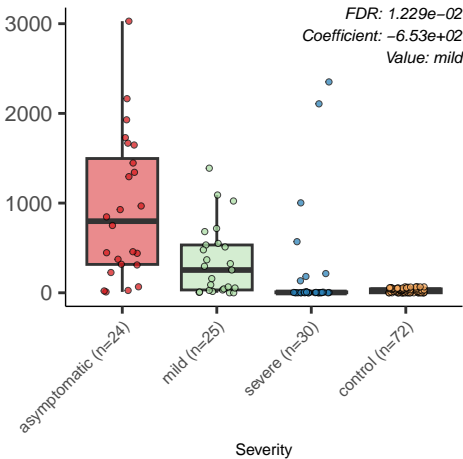
eria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiaceae

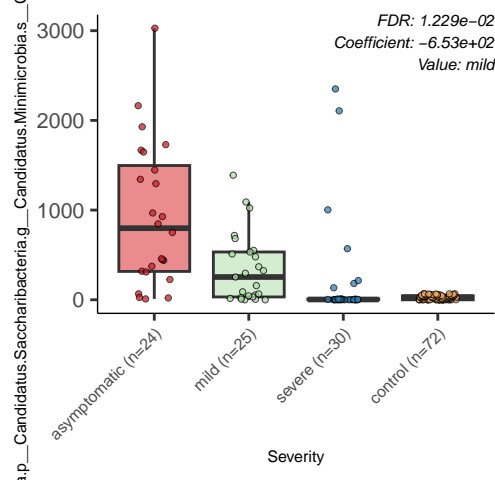


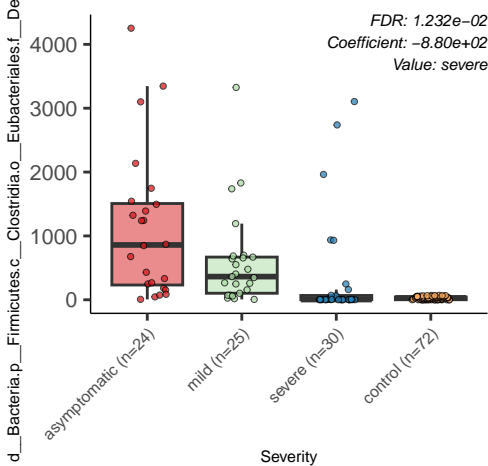


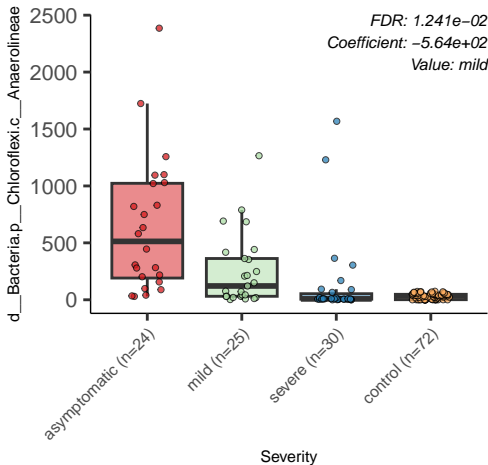


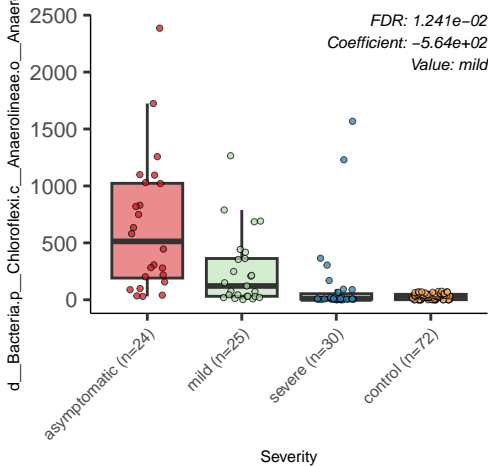
d_Bacteria.p_Candidatus.Saccharibacteria.g_Candidatus

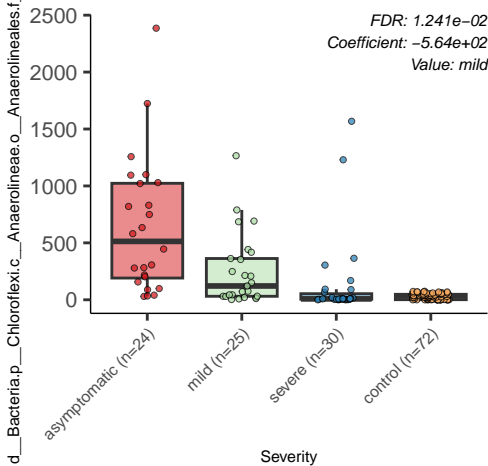


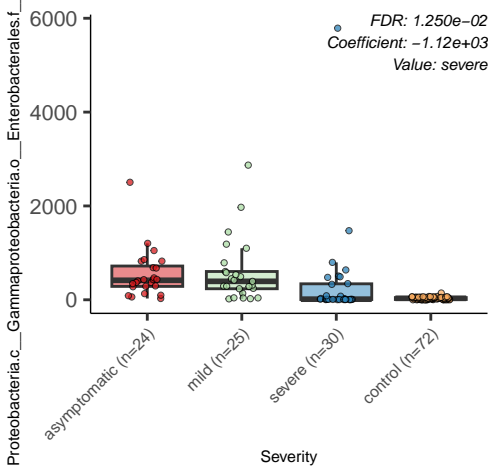




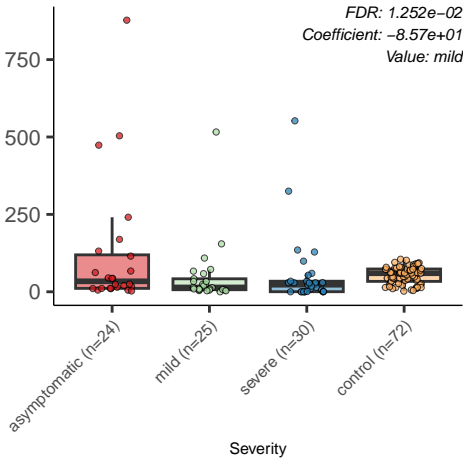


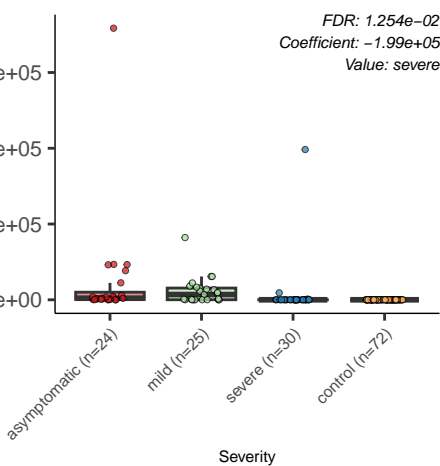




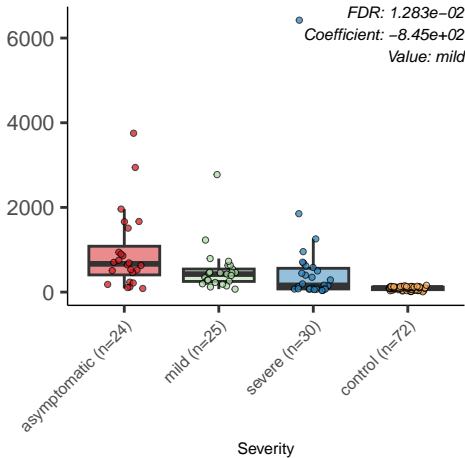


:_Gamma proteobacteria.o__Pseudomonadales.f__Pseudomonadales

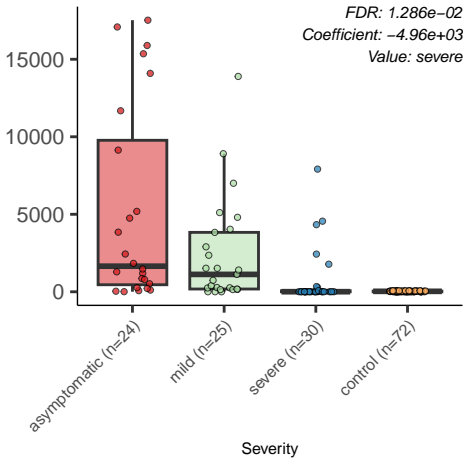


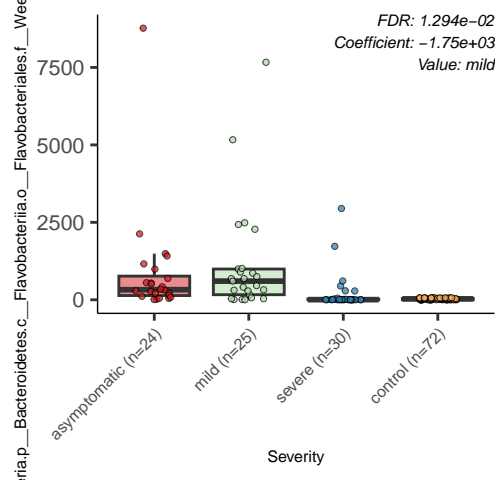


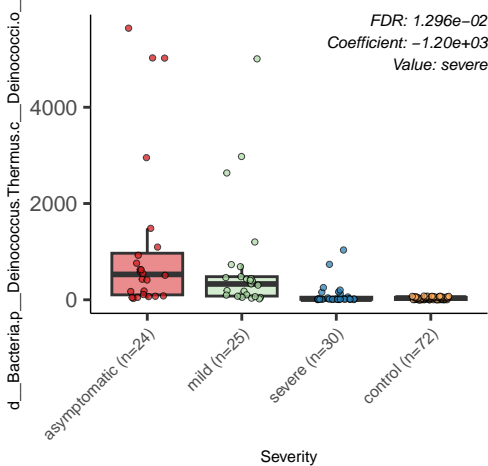
a.p_Actinobacteria.c_Actinomycetia.o_Streptomycetales.f_Stre



Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Bacteroidaceae.g

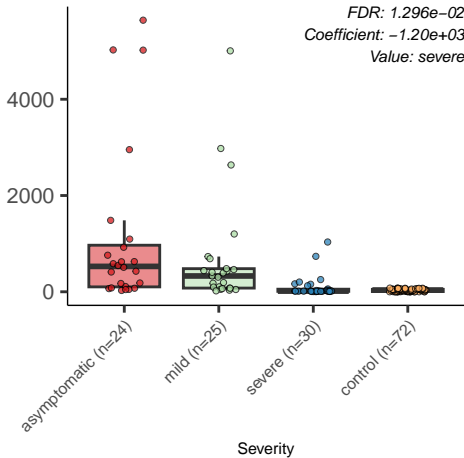


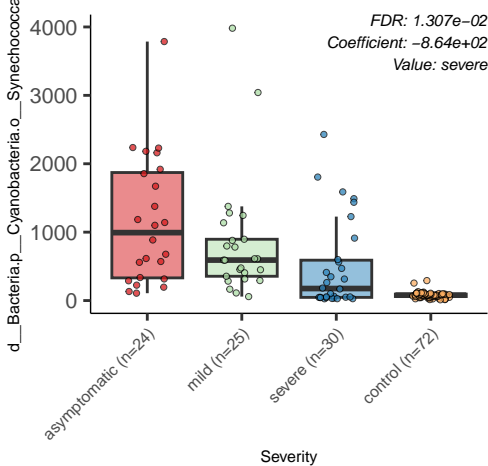


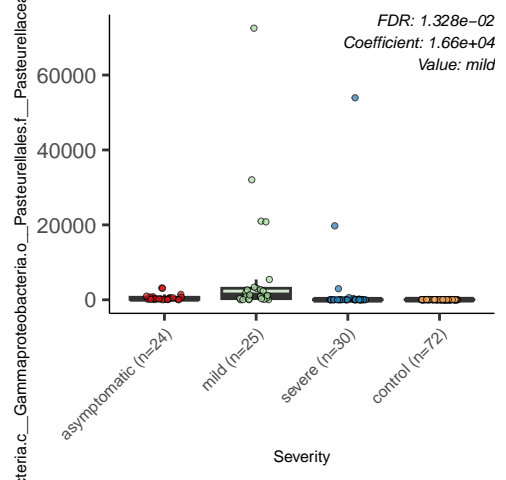


d_Bacteria.p_Deinococcus.Thermus.c_Deinococci.o_Therma

FDR: $1.296e-02$
Coefficient: $-1.20e+03$
Value: severe







d__Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellula

FDR: $1.340e-02$
Coefficient: $-6.62e+02$
Value: severe

4000

2000

0

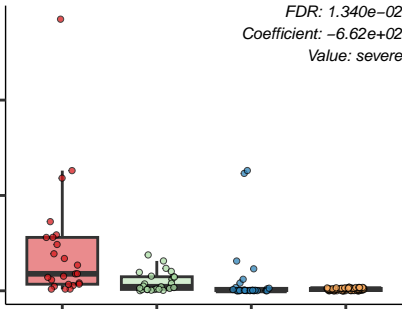
asymptomatic (n=24)

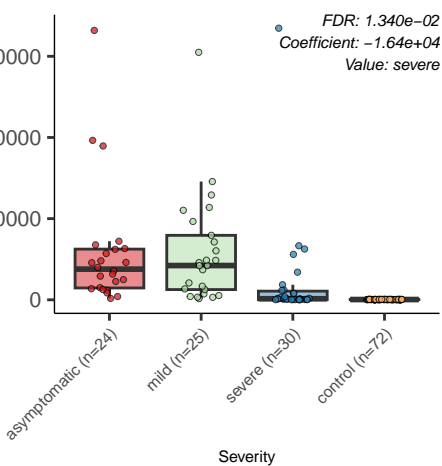
mild (n=25)

severe (n=30)

control (n=72)

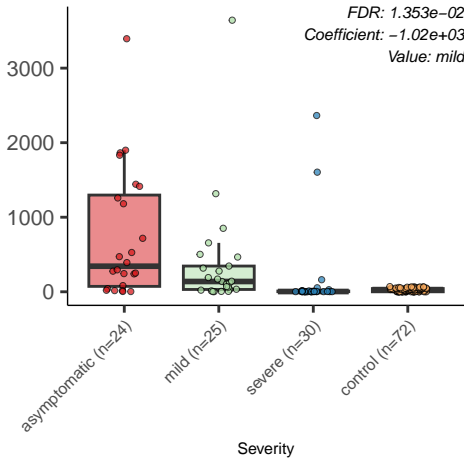
Severity

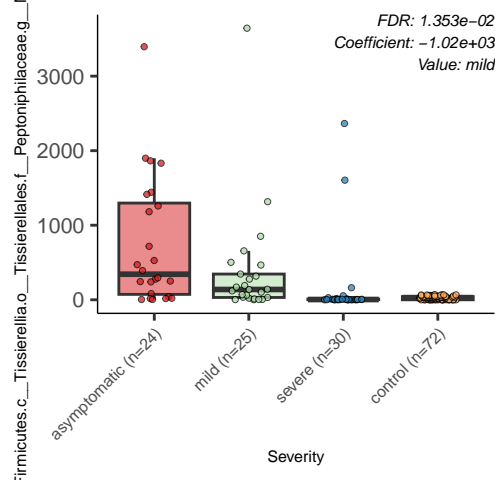


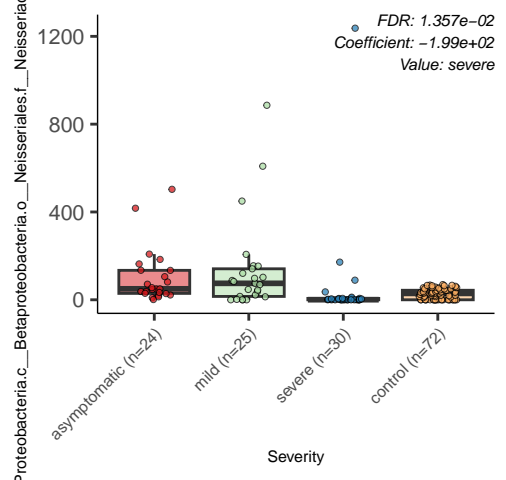


Bacteria.p__Firmicutes.c__Tissierellia.o__Tissierellales.f__Peptonip

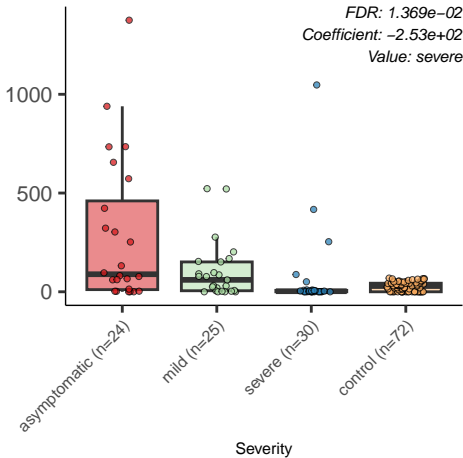
FDR: $1.353e-02$
Coefficient: $-1.02e+03$
Value: mild

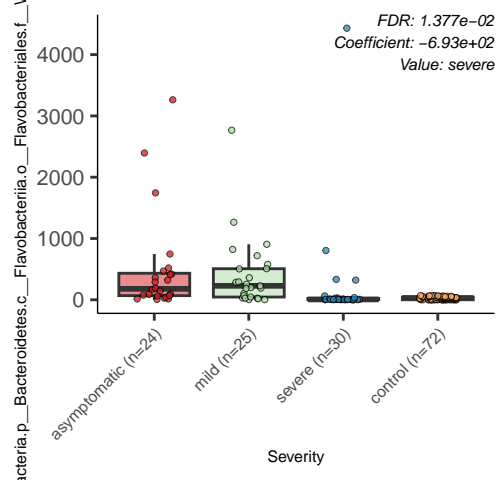


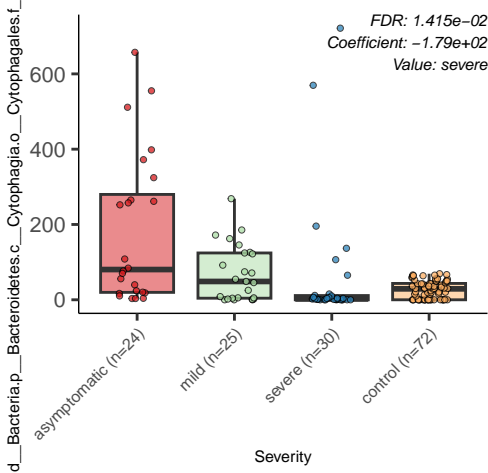


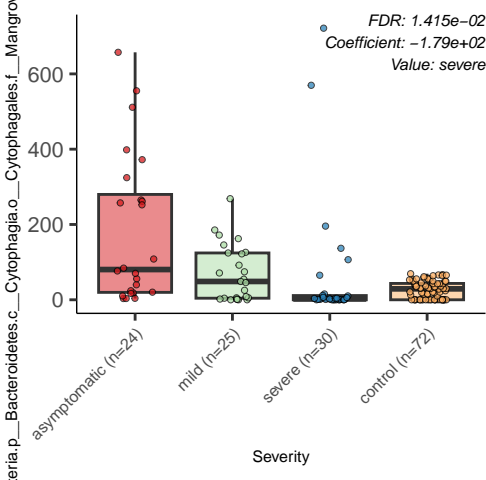


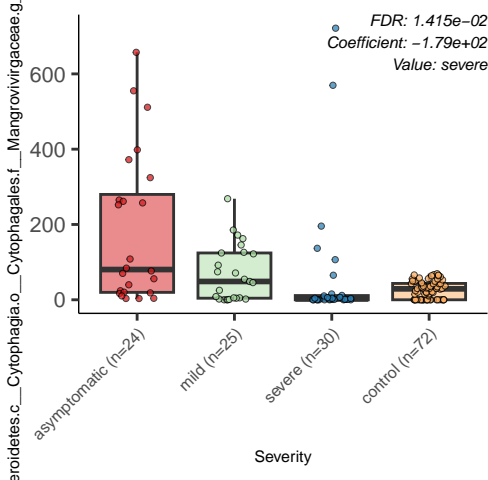
bacteria.c__Gammaproteobacteria.o__Alteromonadales.f__Shewanella



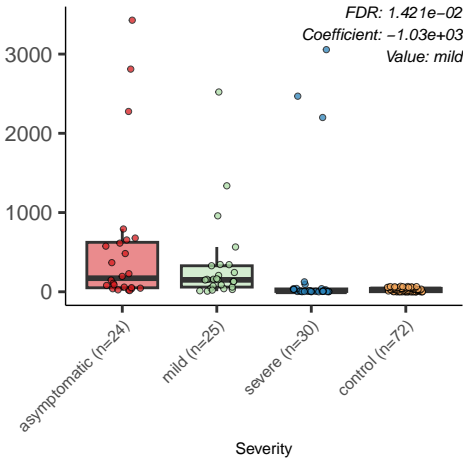


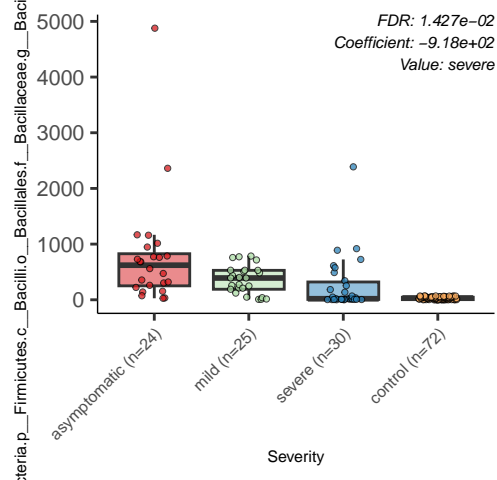




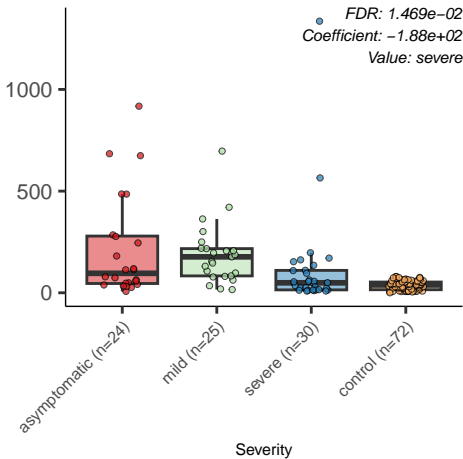


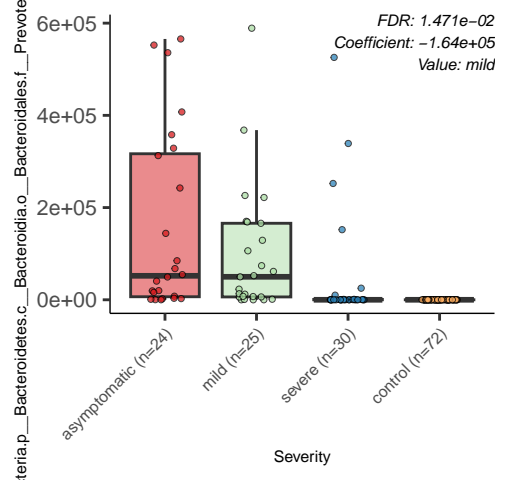
a.p__Actinobacteria.c__Actinomycetia.o__Propionibacteriales.f__Pr

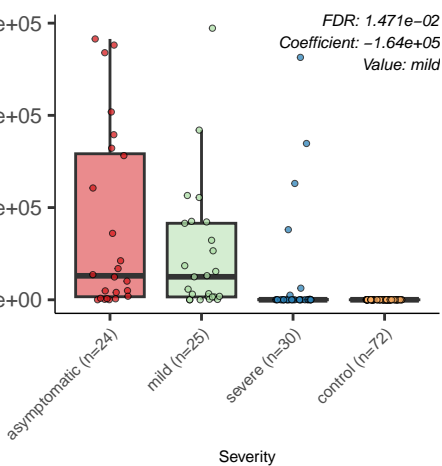




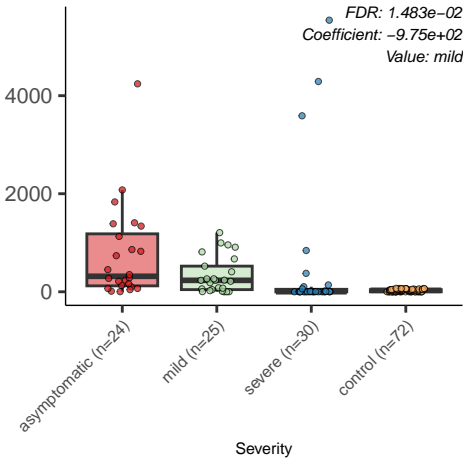
ria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Wee

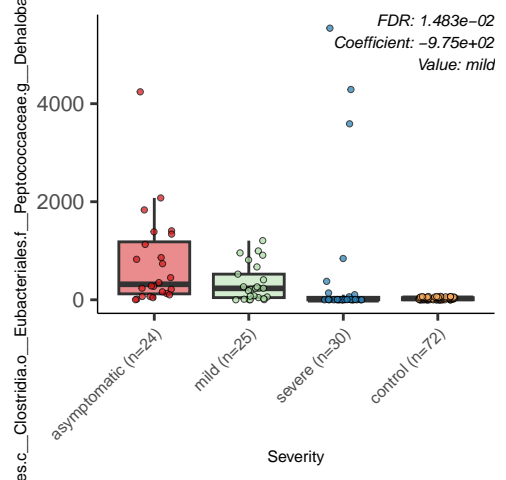




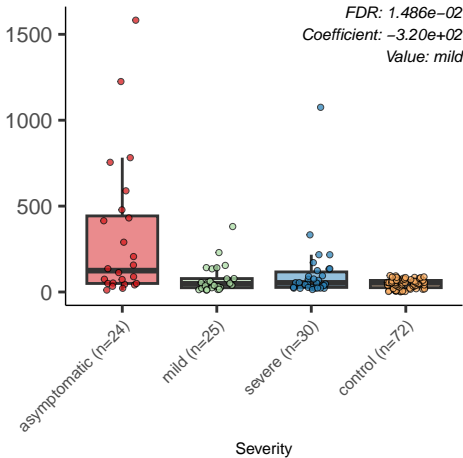


bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Peptococcae

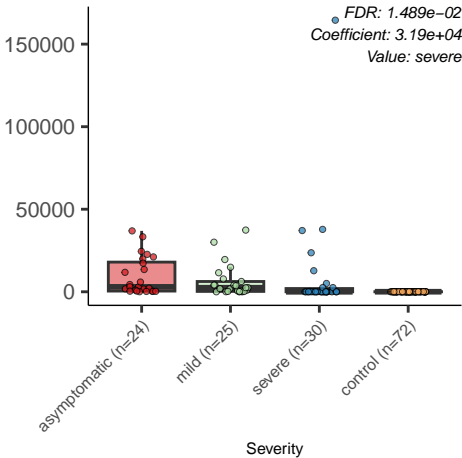


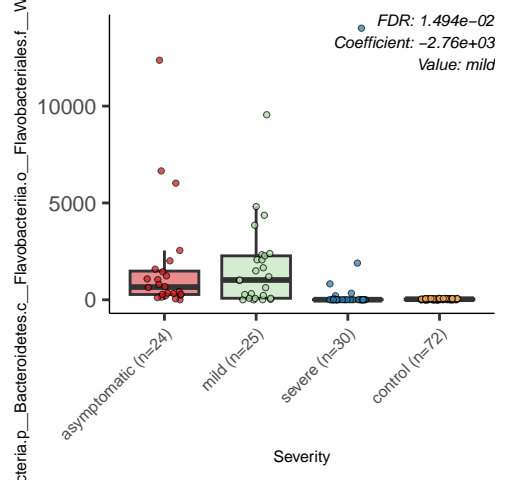


teobacteria.c__Alphaproteobacteria.o__Hyphomicrobiales.f__Met

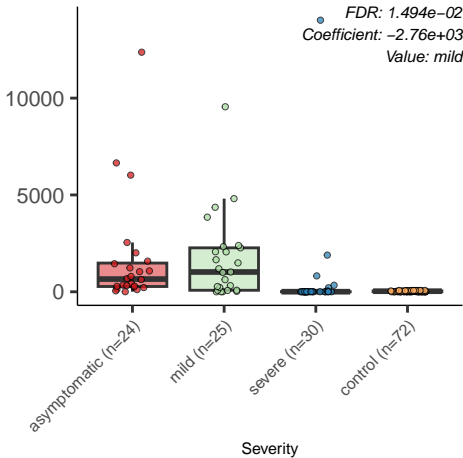


Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Prevotellaceae.g

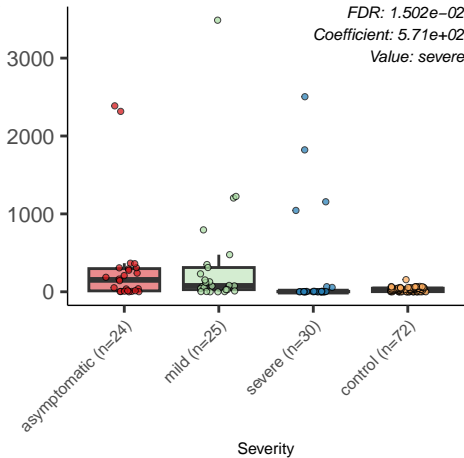


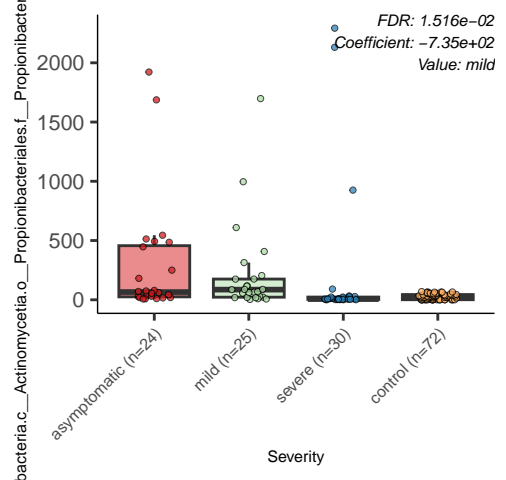


acteroidetes.c_Flavobacteriia.o_Flavobacteriales.f_Weeksellaceae



FDR: 1.502e-02
Coefficient: 5.71e+02
Value: severe





d_Bacteria.p_Actinobacteria.c_Actinomycetia.o_Strep

FDR: 1.518e-02
Coefficient: -9.99e+02
Value: mild

10000

5000

0

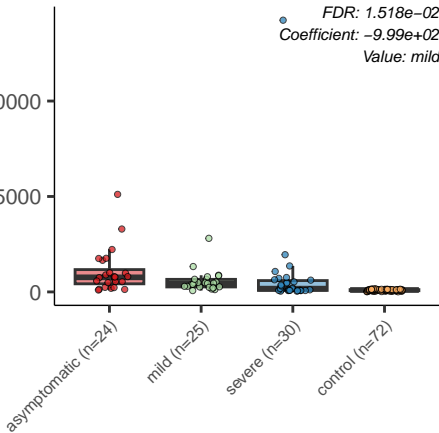
asymptomatic (n=24)

mild (n=25)

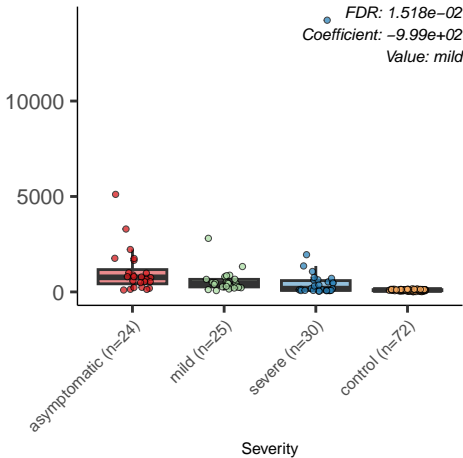
severe (n=30)

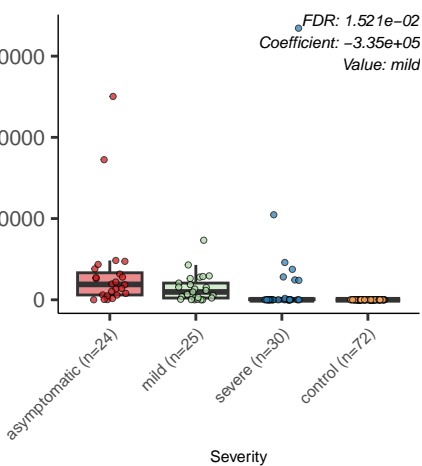
control (n=72)

Severity

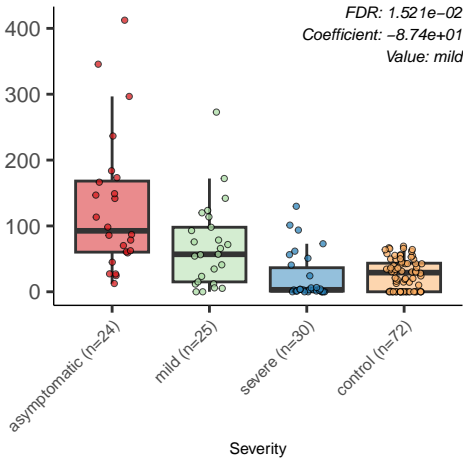


Bacteria.p_Actinobacteria.c_Actinomycetia.o_Streptomycetale

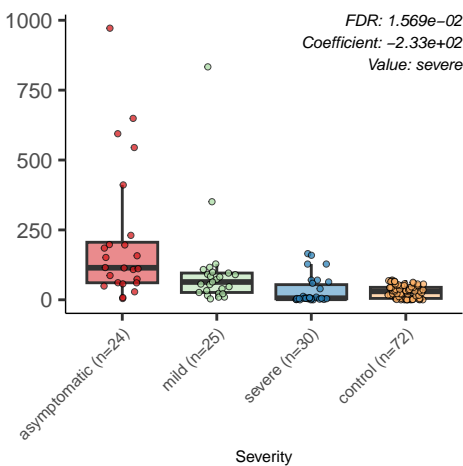


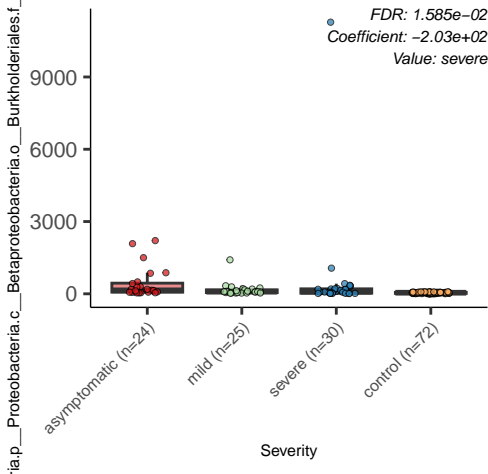


icutes.c__Bacilli.o__Lactobacillales.f__Enterococcaceae.g__Tetrag

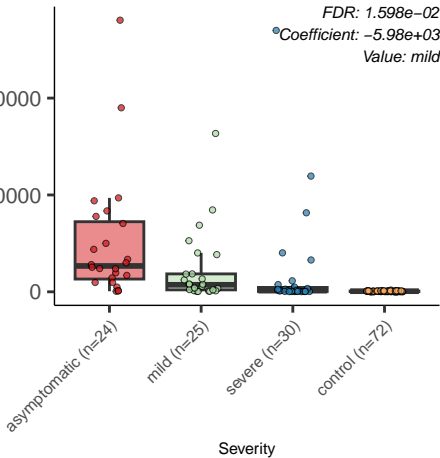


Clostridia.o_Thermoanaerobacterales.f_Thermoanaerobacterales.

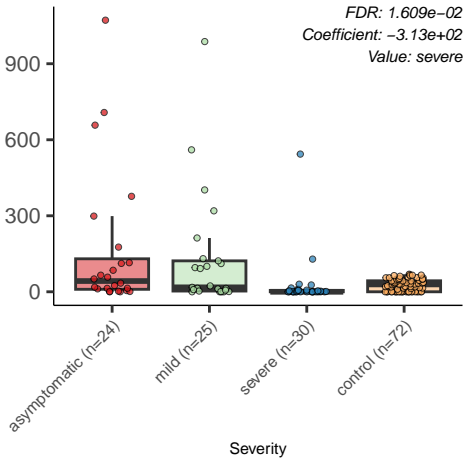




ia.p_Actinobacteria.c_Actinomycetia.o_Micrococcales.f_Microb



chaetes.c__Spirochaetia.o__Spirochaetales.f__Treponemataceae.g



d_Bacteria.p__Chloroflexi

FDR: $1.628e-02$
Coefficient: $-1.53e+03$
Value: mild

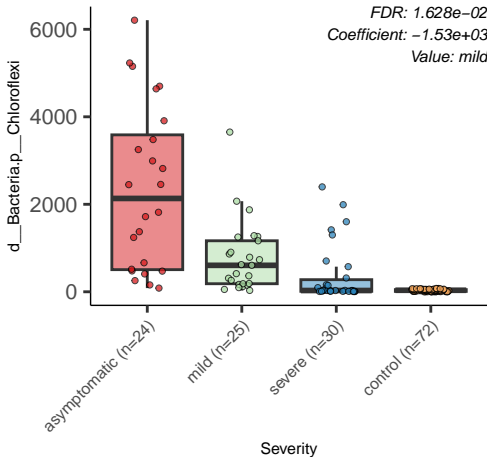
asymptomatic (n=24)

mild (n=25)

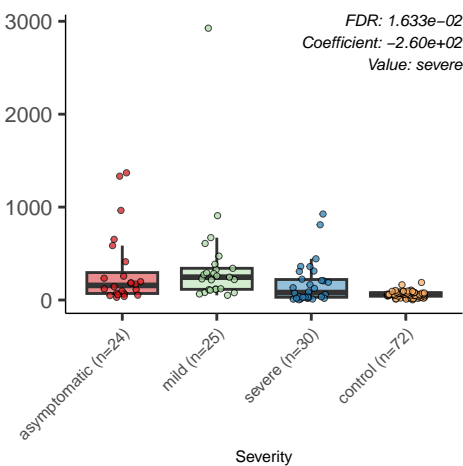
severe (n=30)

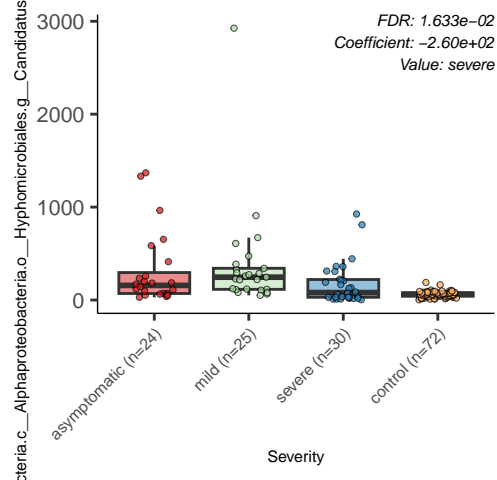
control (n=72)

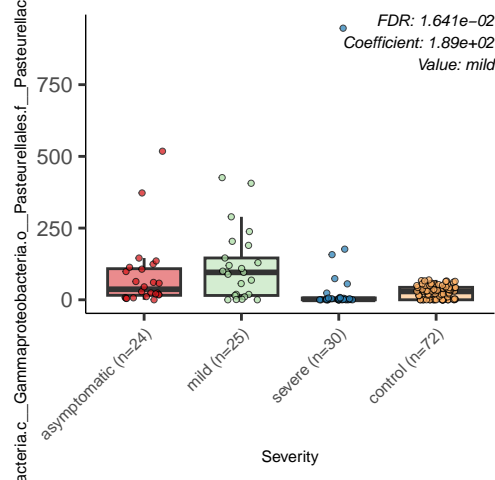
Severity

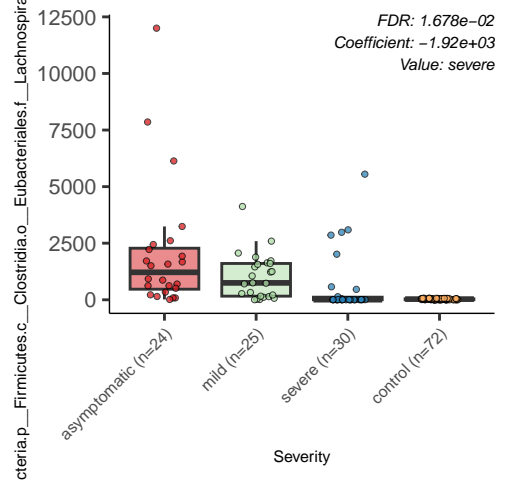


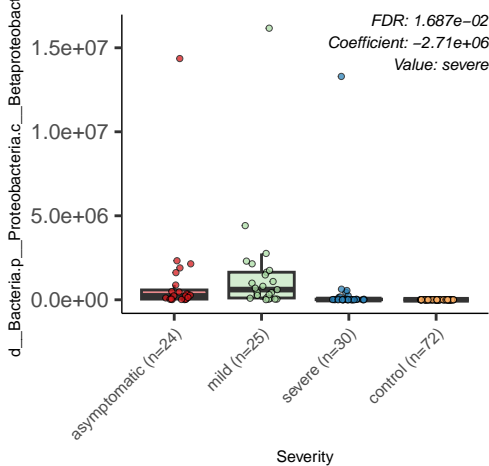
teria.p__Proteobacteria.c__Alphaproteobacteria.o__Hyphomicrobia



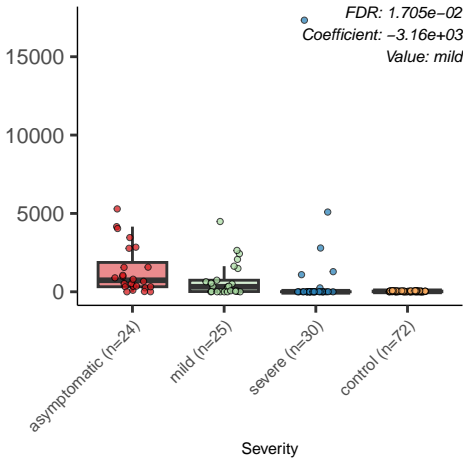




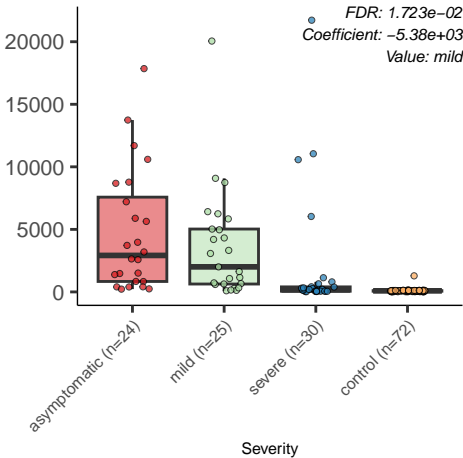




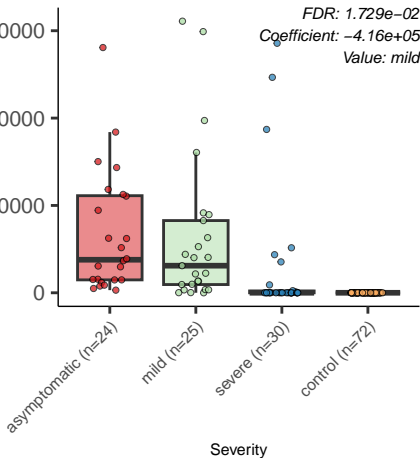
eria.c_Actinomycetia.o_Bifidobacteriales.f_Bifidobacteriaceae.g

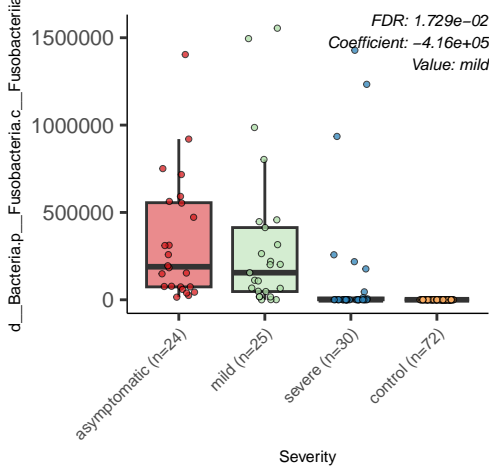


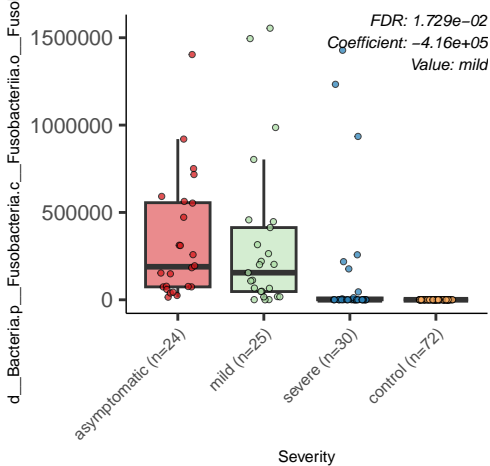
d_Bacteria.p_Bacteroidetes.c_Cytophagia.o_Cytophagales.



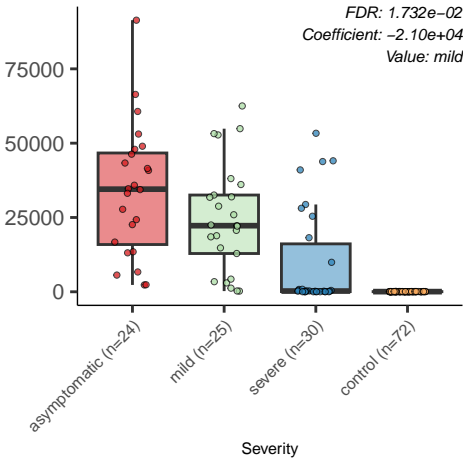
d_Bacteria.p_Fusobacteria

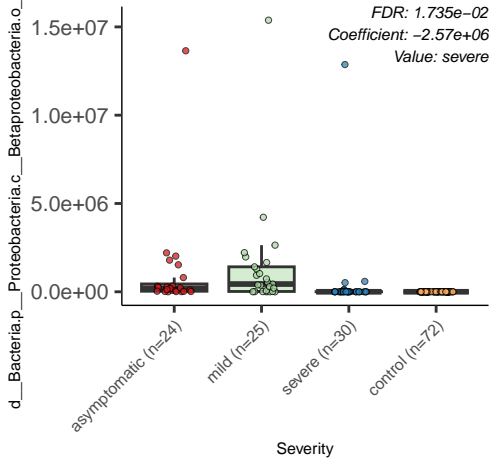




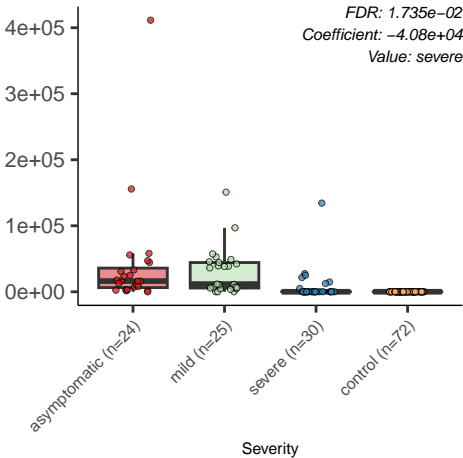


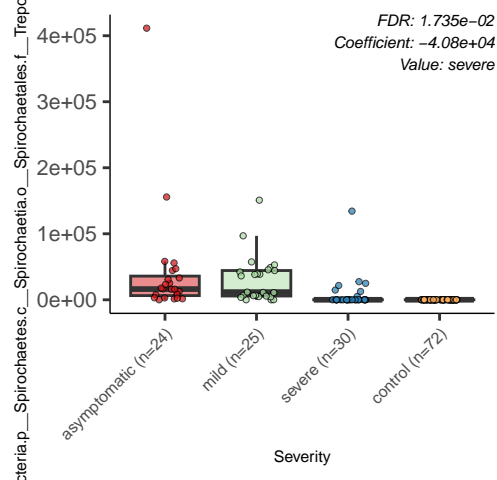
bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Sphingomonas

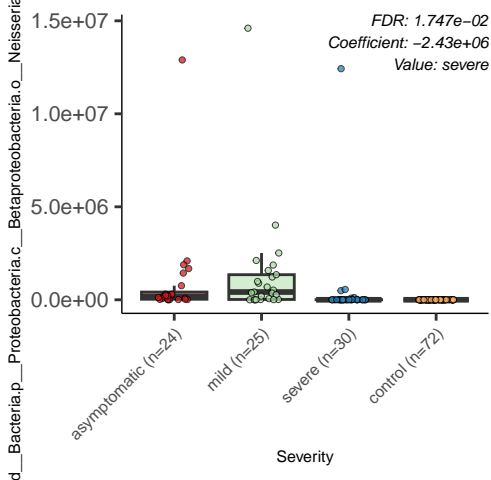


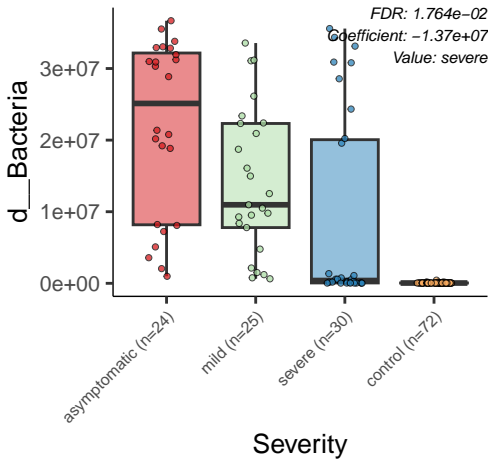


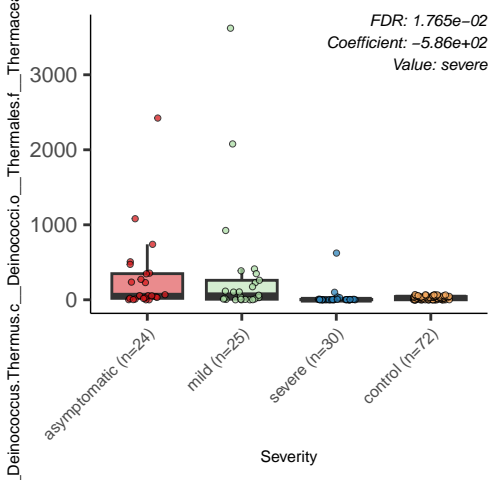
d__Bacteria.p__Spirochaetes.c__Spirochaetia.o__Spirochaetales.f__

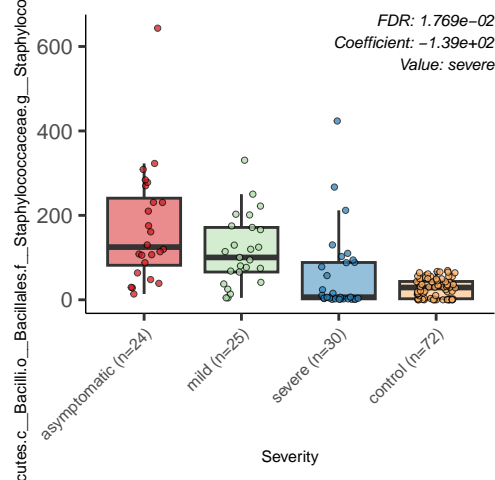




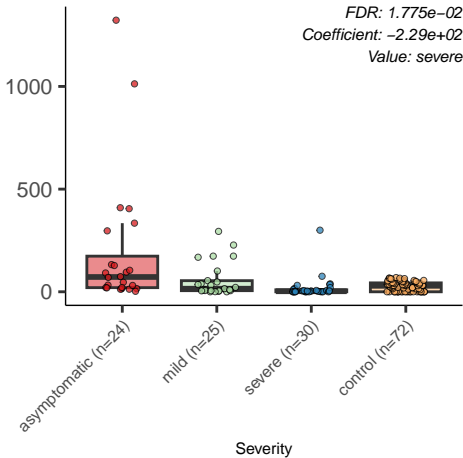




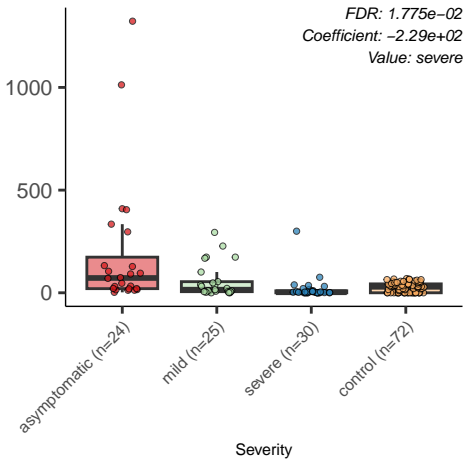




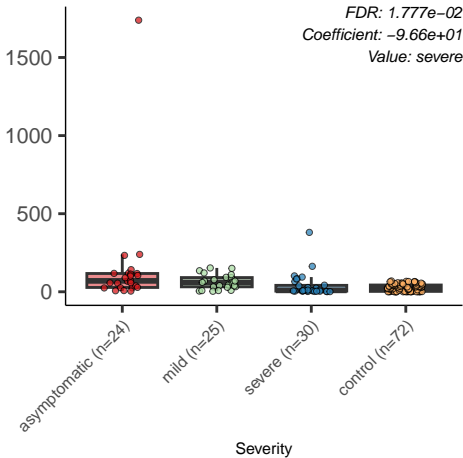
ria.p__Tenericutes.c__Mollicutes.o__Acholeplasmatales.f__Acholeplasma

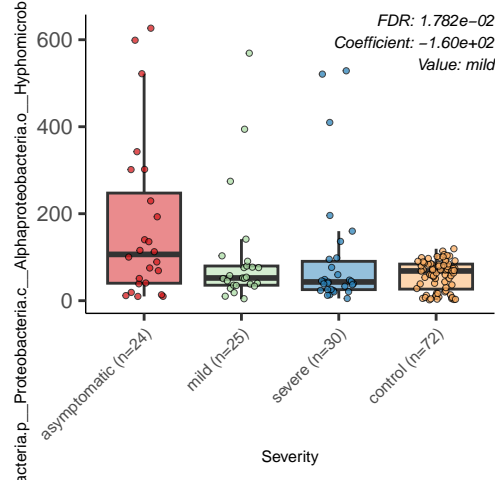


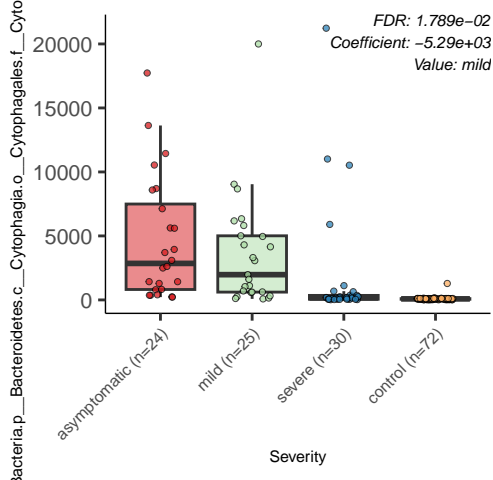
ites.c__Mollicutes.o__Acholeplasmatales.f__Acholeplasmataceae.g



cteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceanospir

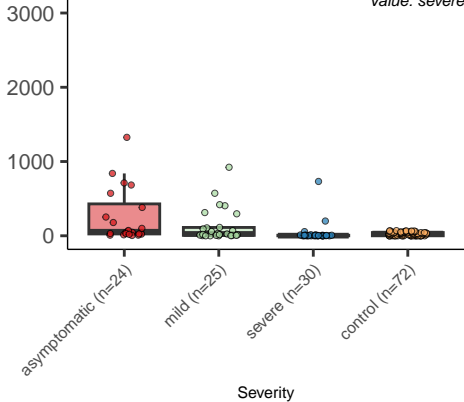




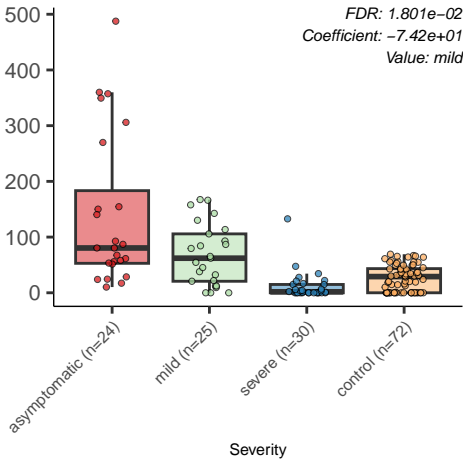


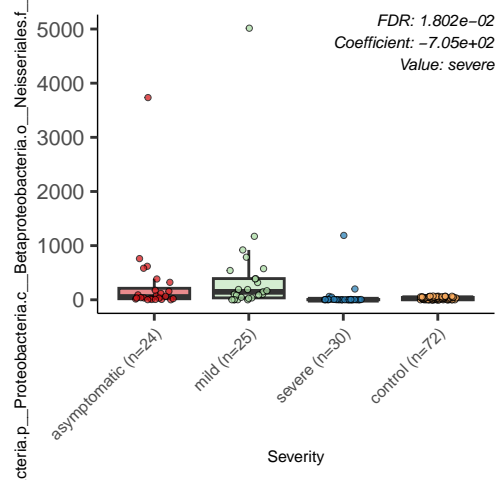
Firmicutes.c__Clostridia.o__Eubacteriales.f__Oscillospiraceae.g

FDR: 1.793e-02
Coefficient: -6.33e+02
Value: severe



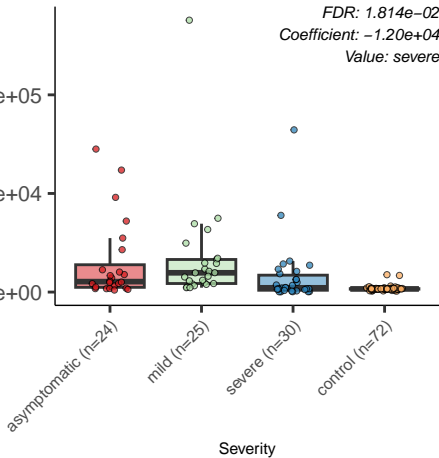
firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Str

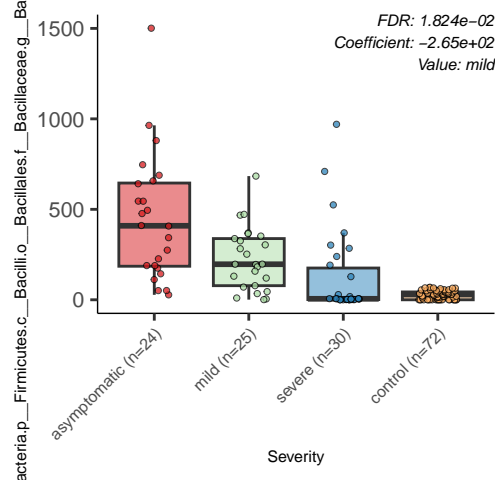




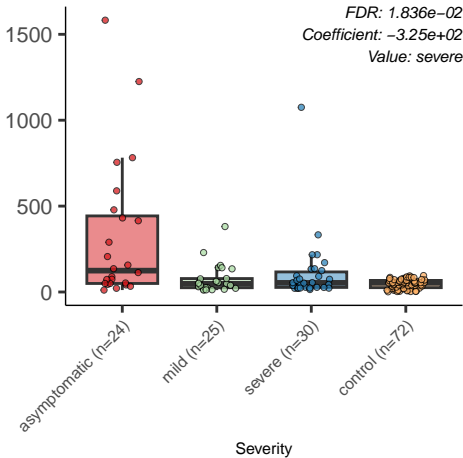
d_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__

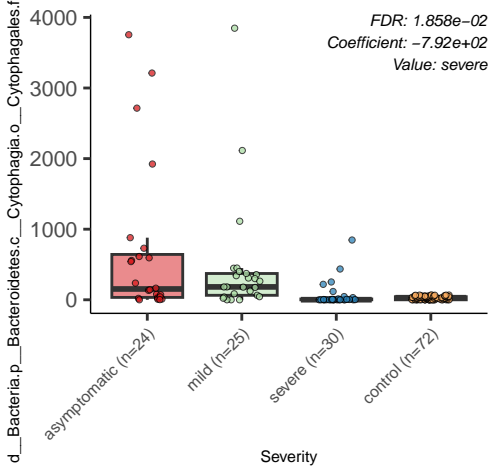
FDR: 1.814×10^{-2}
Coefficient: -1.20×10^4
Value: severe

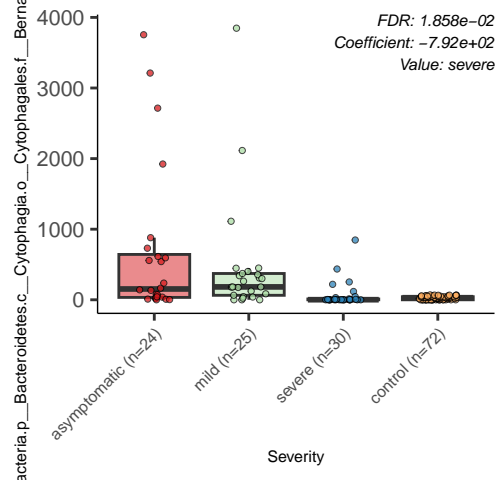




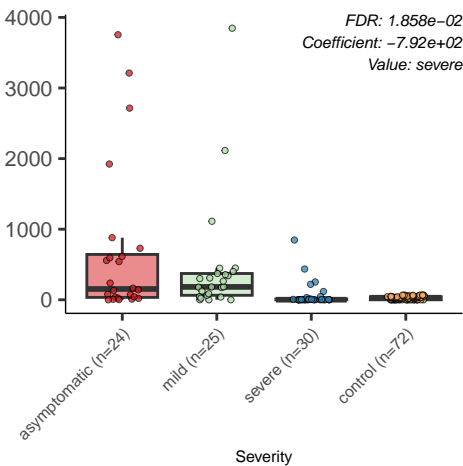
proteobacteria.c__Alphaproteobacteria.o__Hyphomicrobiales.f__Met

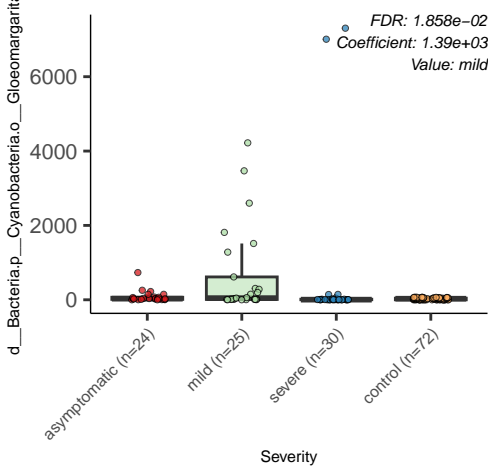


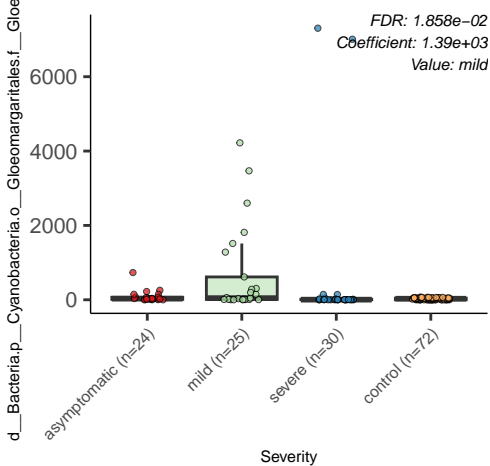


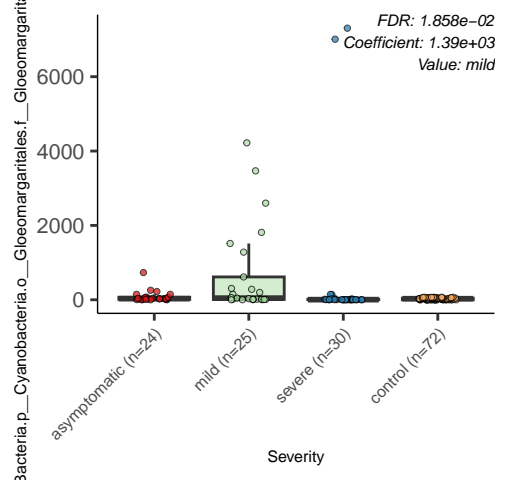


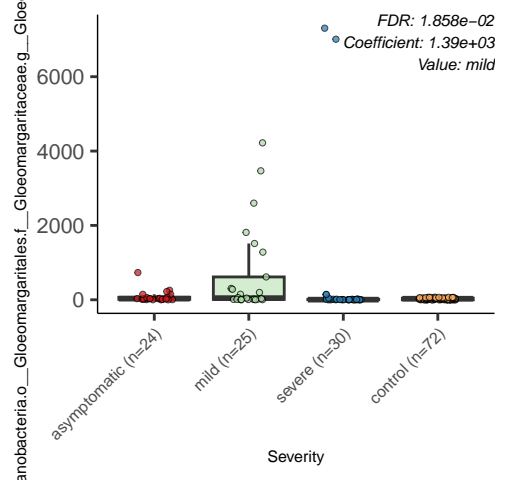
Bacteroidetes.c__Cytophagia.o__Cytophagales.f__Bernardetiaceae.



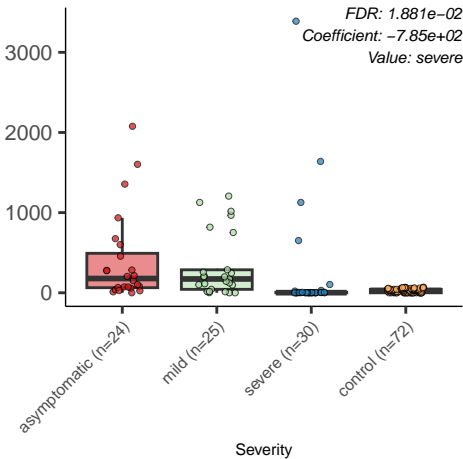


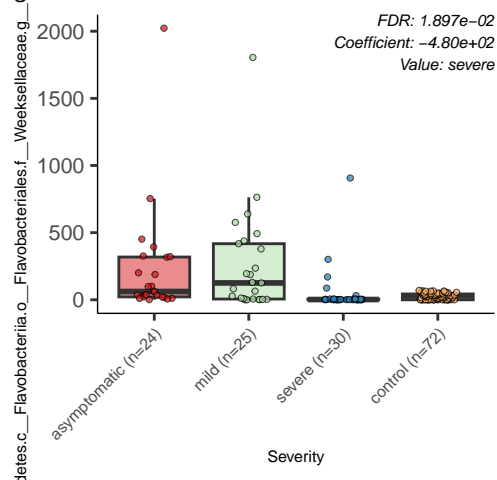




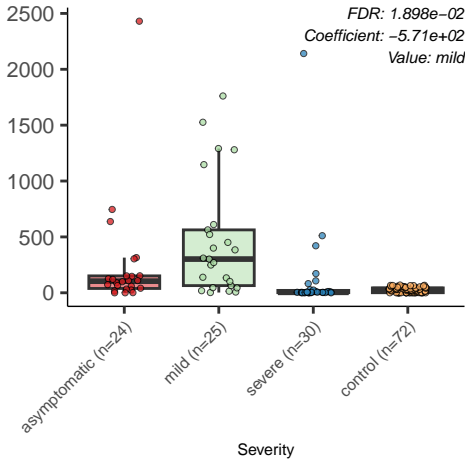


rochaetes.c__Spirochaetia.o__Spirochaetales.f__Treponemataceae

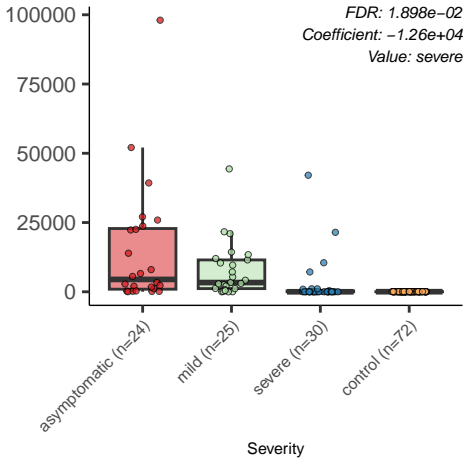




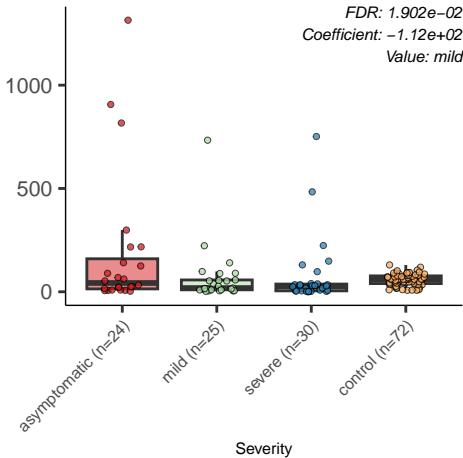
sobacteria.c__Fusobacteriia.o__Fusobacteriales.f__Leptotrichiaceae



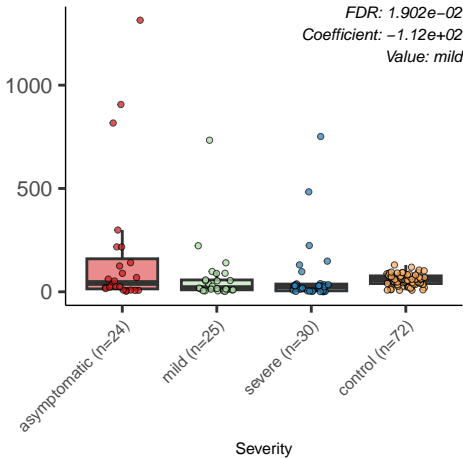
d__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__

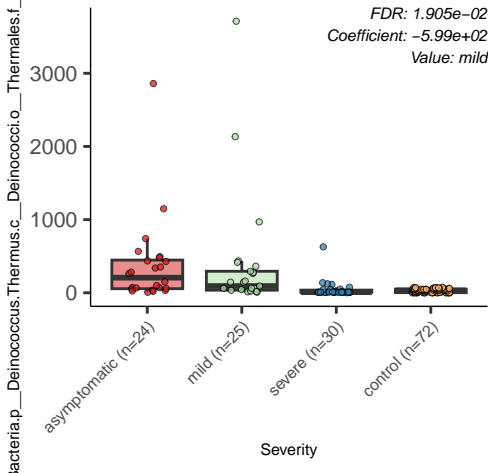


Proteobacteria.c__Alphaproteobacteria.o__Hyphomicrobiales.f__X

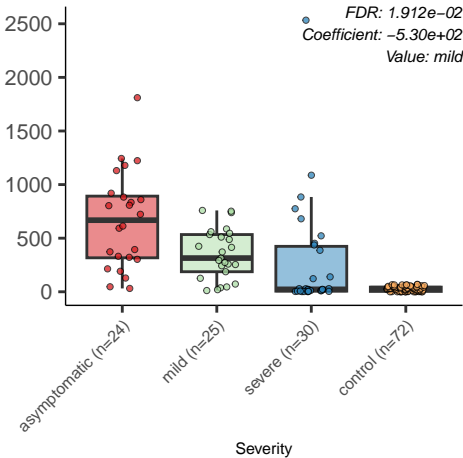


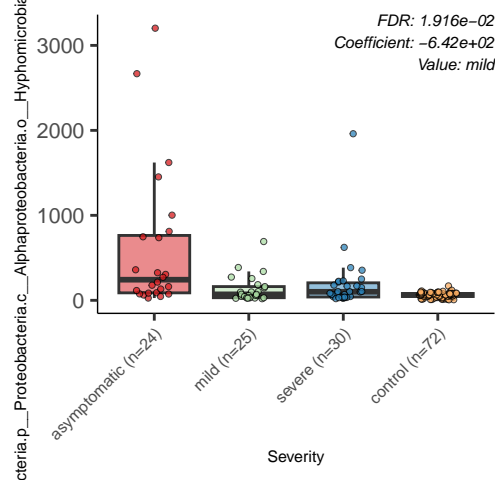
a.c__Alphaproteobacteria.o__Hyphomicrobiales.f__Xanthobacteraceae

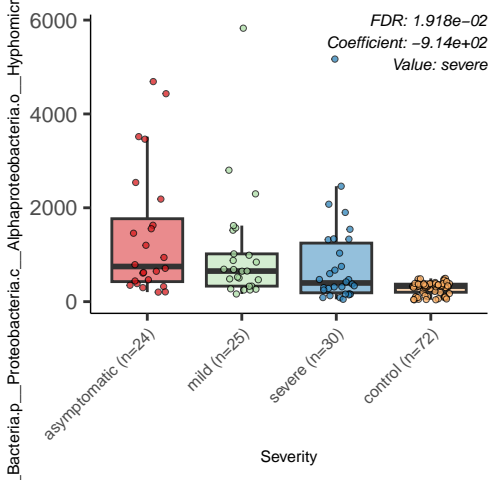


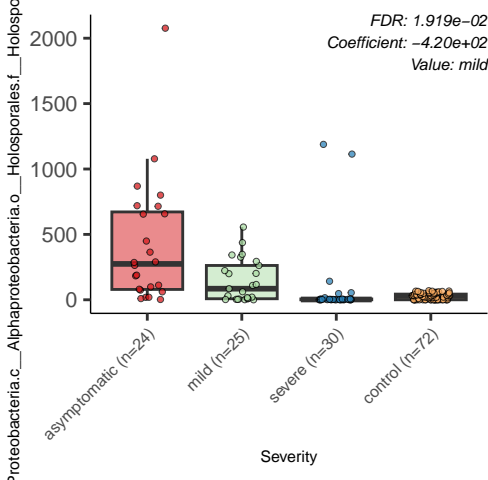


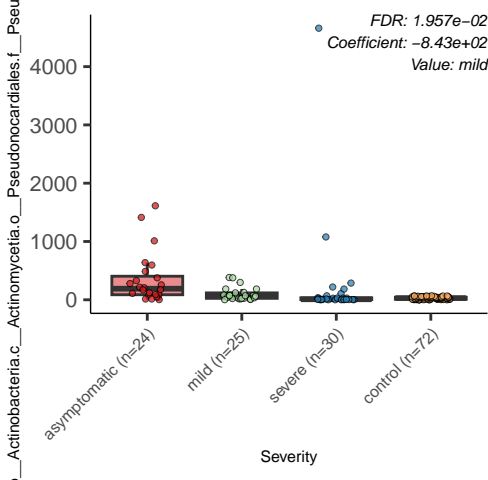
Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Bacillaceae.g_B

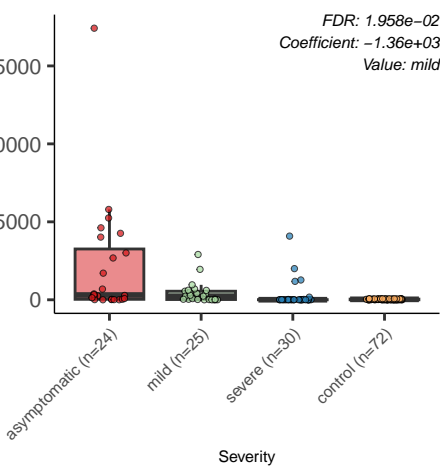


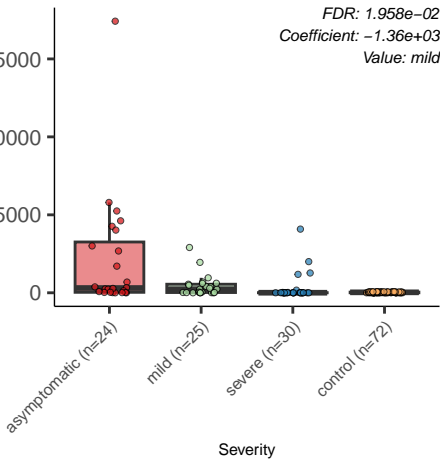


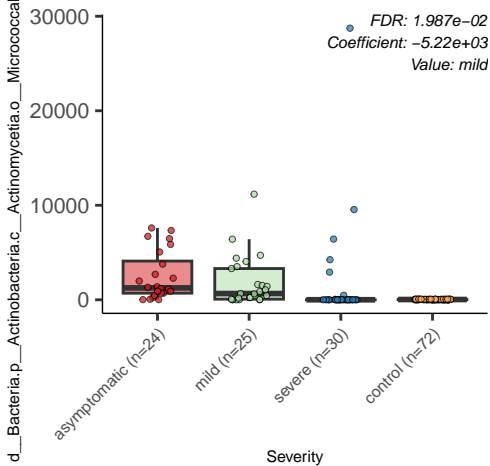


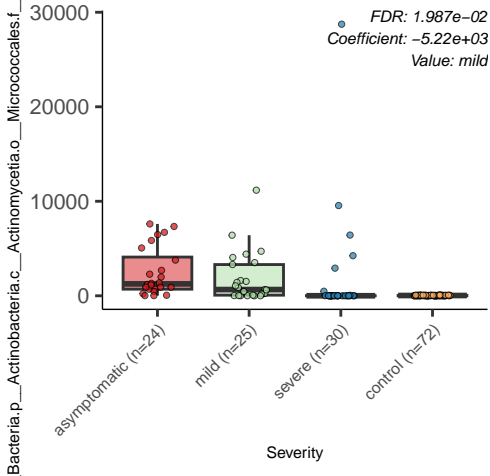


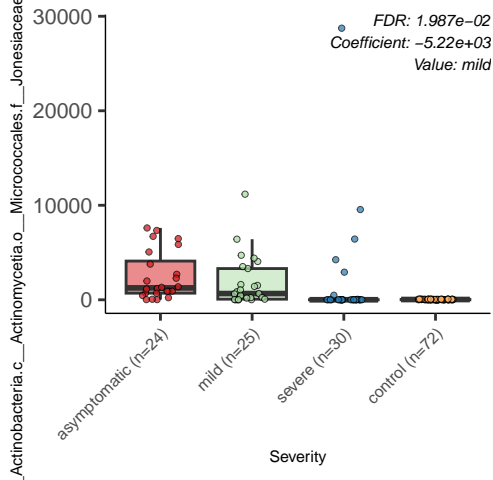


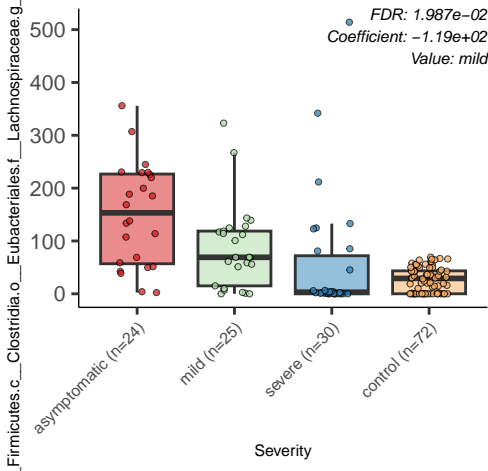




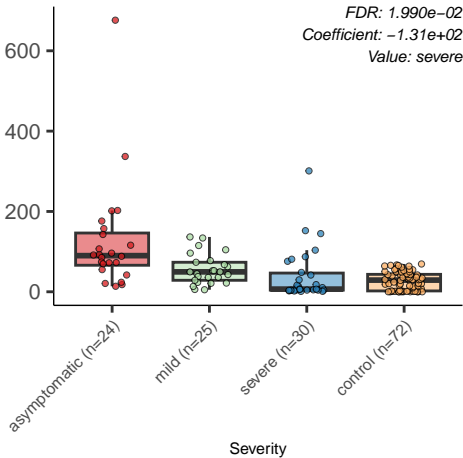




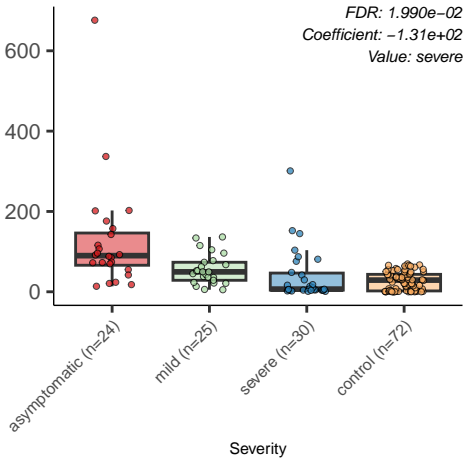


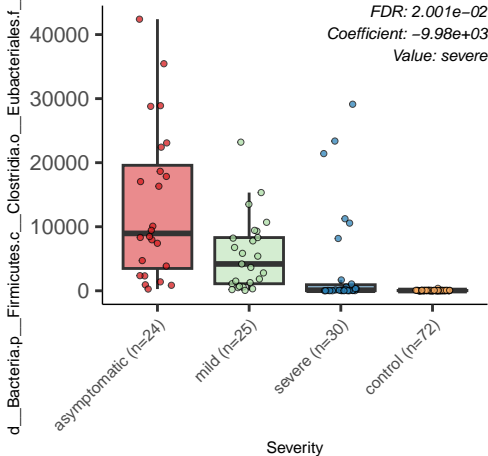


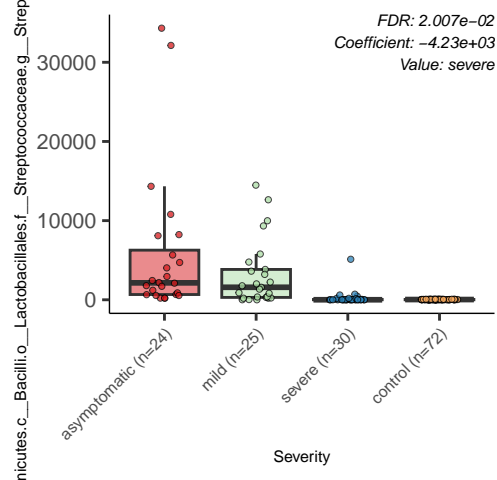
Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Hyphomicrobia

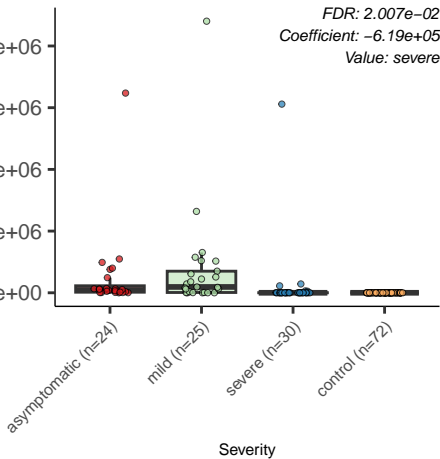


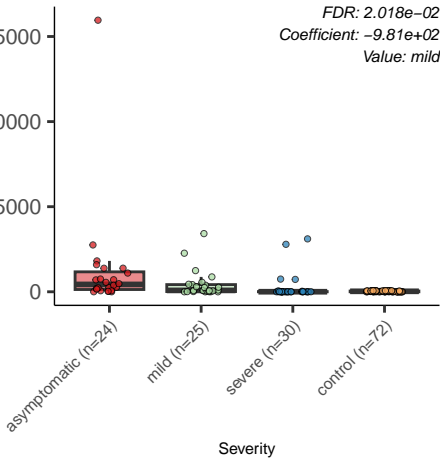
a.p__Proteobacteria.c__Alphaproteobacteria.o__Hyphomicrobiales.

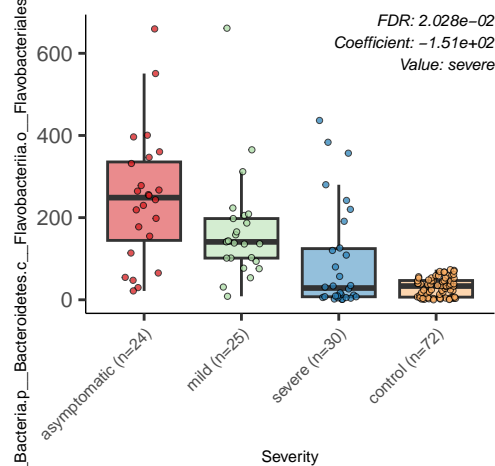




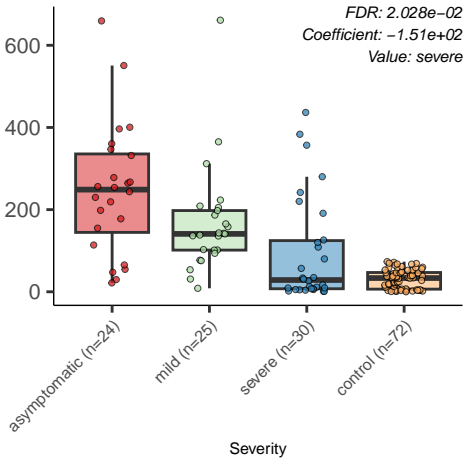


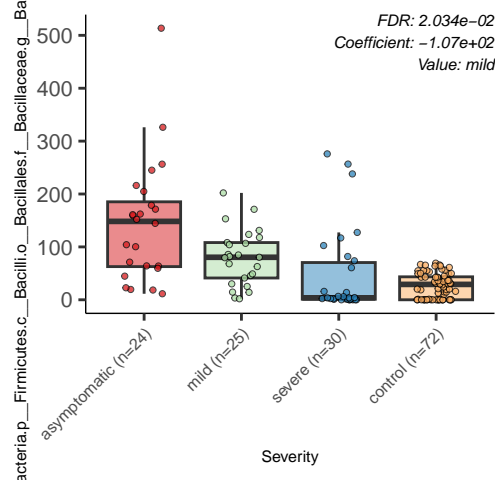


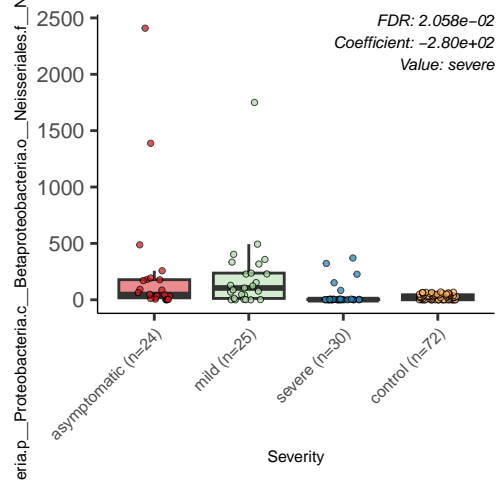




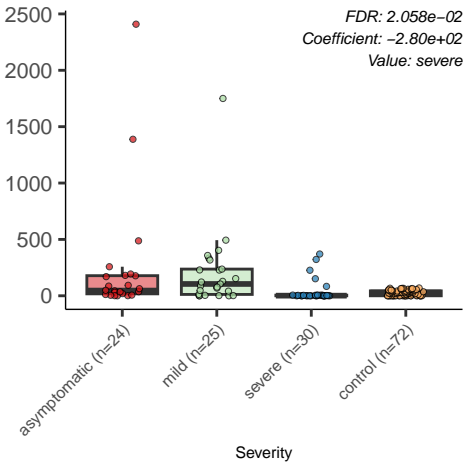
Bacteroidetes.c_Flavobacteriia.o_Flavobacteriales.g_Candidatus

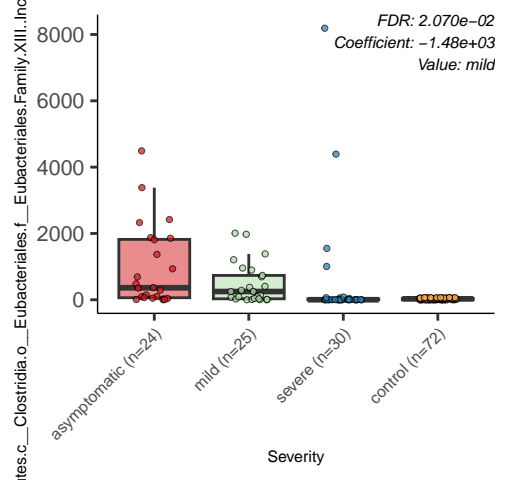




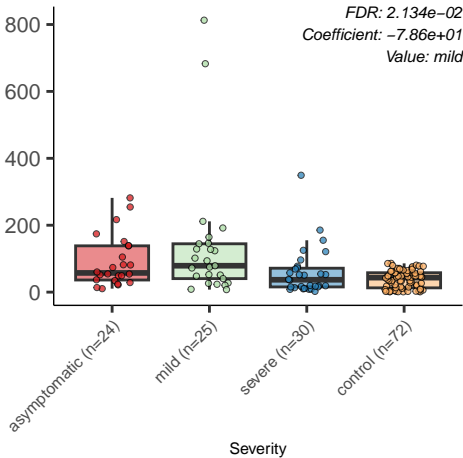


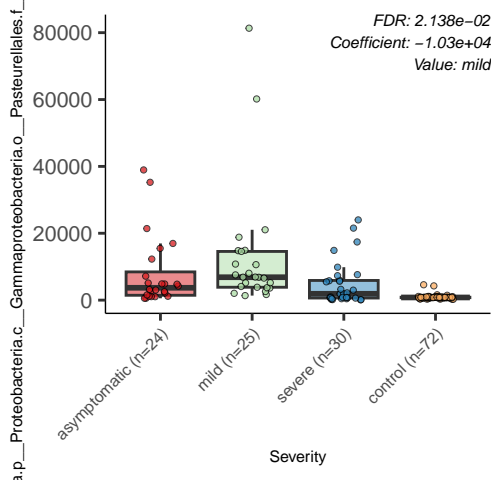
obacteria.c__Betaproteobacteria.o__Neisseriales.f__Neisseriaceae,





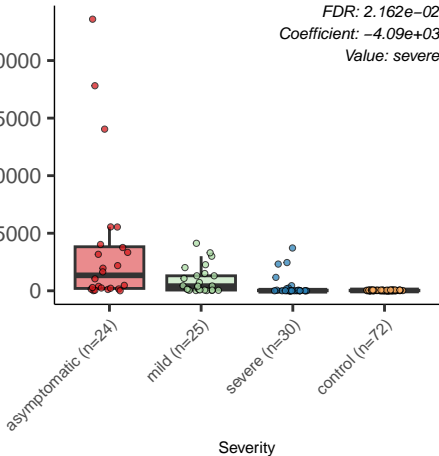
Proteobacteria.c__Alphaproteobacteria.o__Sphingomonadales.f__S





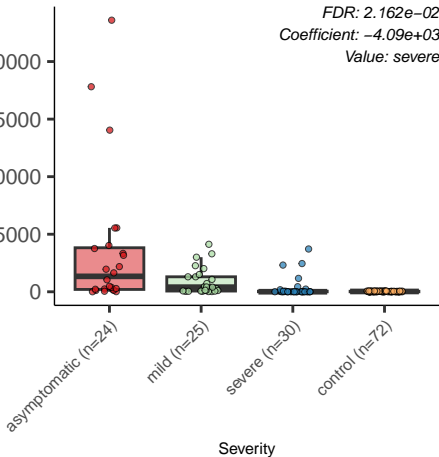
d_Bacteria.p_Synergistetes

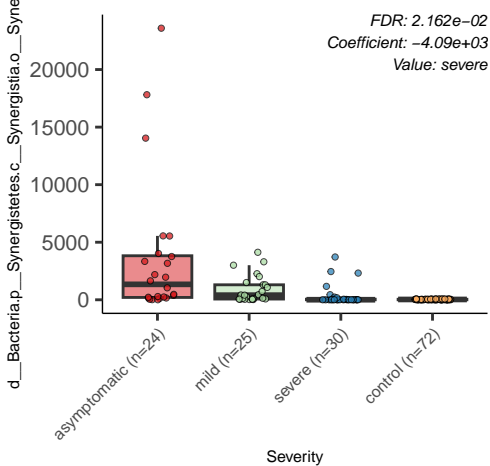
FDR: $2.162e-02$
Coefficient: $-4.09e+03$
Value: severe



d__Bacteria.p__Synergistetes.c__Synergistia

FDR: 2.162×10^{-2}
Coefficient: -4.09×10^3
Value: severe





d__Bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__

20000
15000
10000
5000
0

FDR: 2.162e-02
Coefficient: -4.09e+03
Value: severe

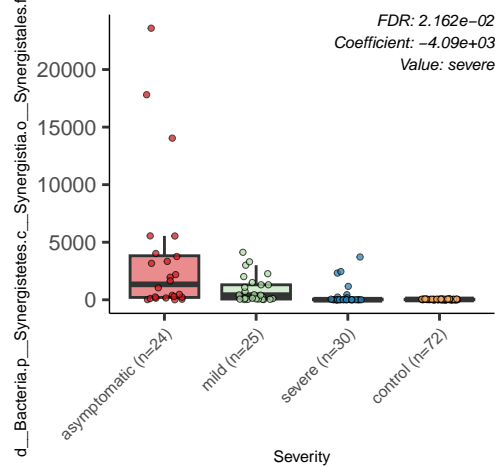
asymptomatic (n=24)

mild (n=25)

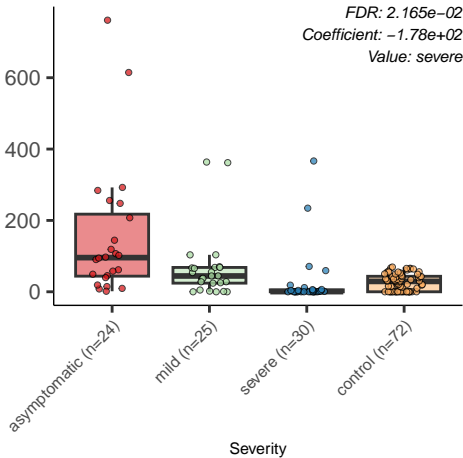
severe (n=30)

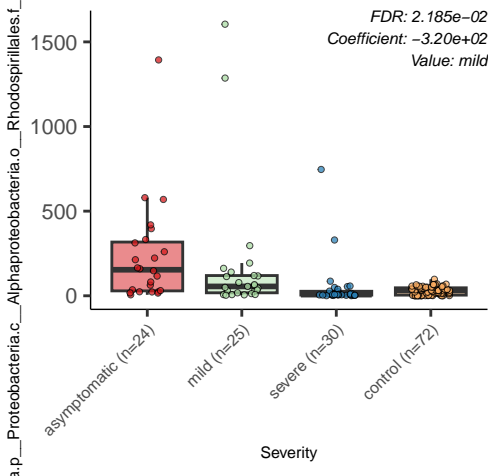
control (n=72)

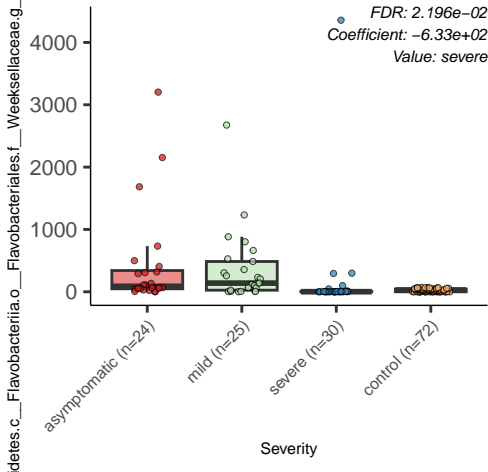
Severity



Flavobacteriia.o_Flavobacteriales.f_Flavobacteriaceae.g_Cap







micutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Strept

FDR: 2.215e-02
Coefficient: -4.06e+04
Value: severe

150000

100000

50000

0

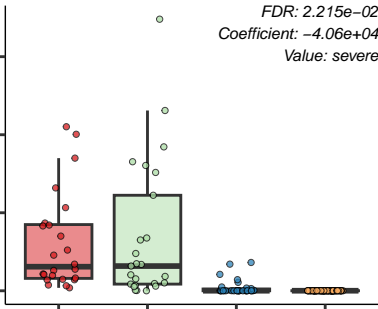
asymptomatic (n=24)

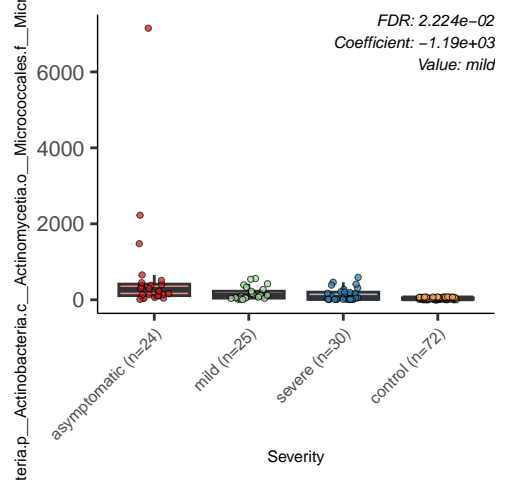
mild (n=25)

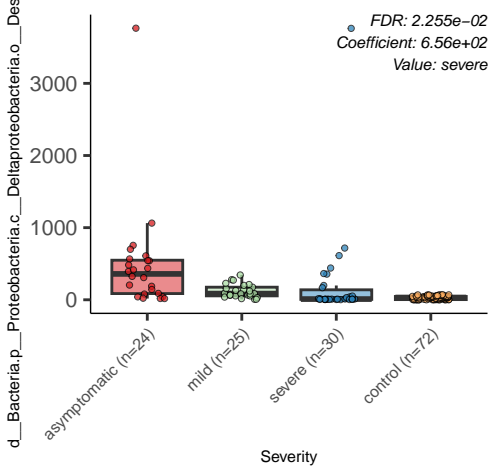
severe (n=30)

control (n=72)

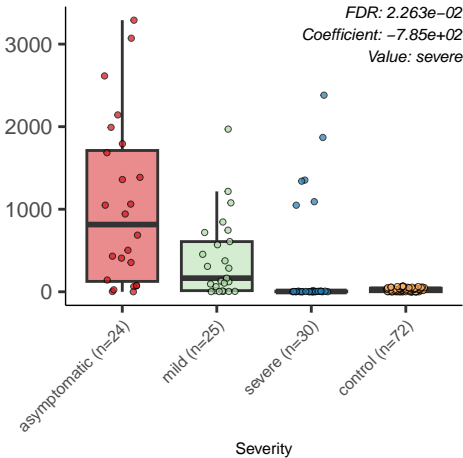
Severity



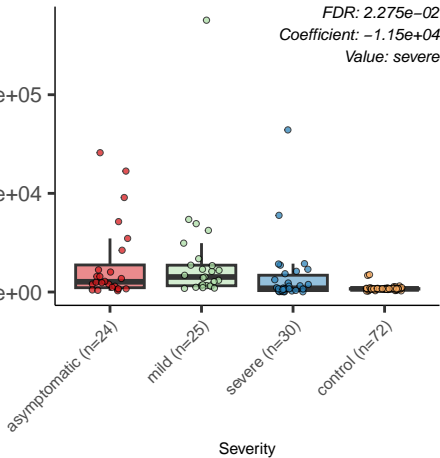




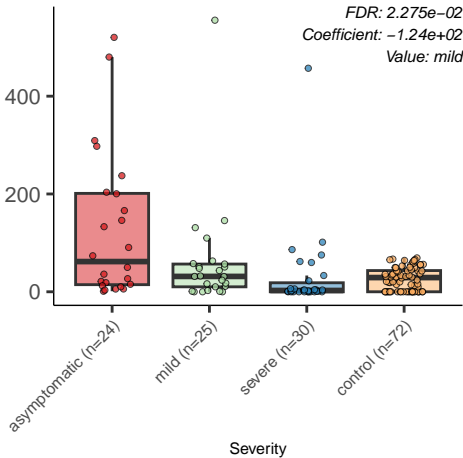
acteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Oscillospira



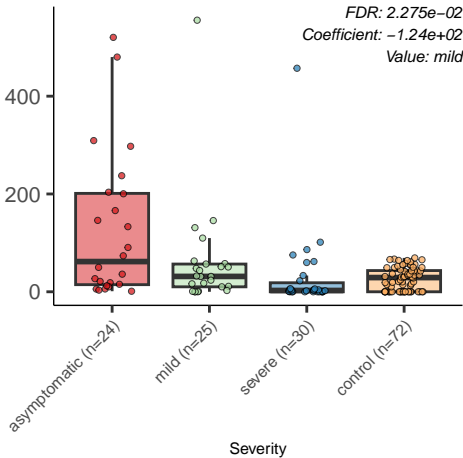
bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Oceanospirillum



bacteria.p_Bacteroidetes.c_Bacteroidia.o_Marinilabiales.f_Marin



cteroidetes.c__Bacteroidia.o__Marinilabiales.f__Marinilabiales.g__



d_Bacteria.p_Proteobacteria.c_Deltaproteobacteria.o_De

10000

5000

0

asymptomatic (n=24)

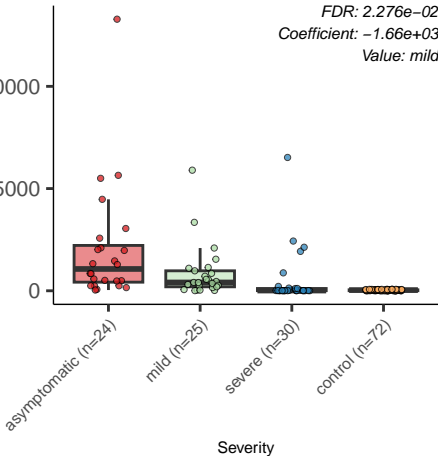
mild (n=25)

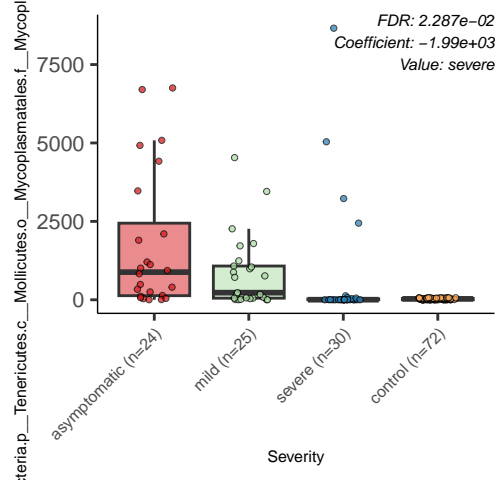
severe (n=30)

control (n=72)

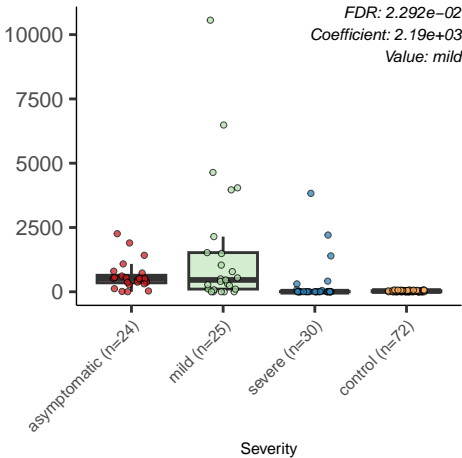
Severity

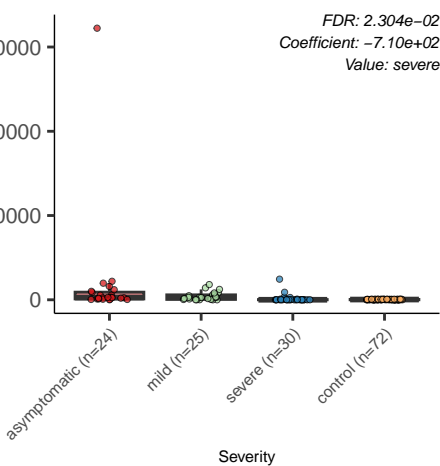
FDR: $2.276e-02$
Coefficient: $-1.66e+03$
Value: mild

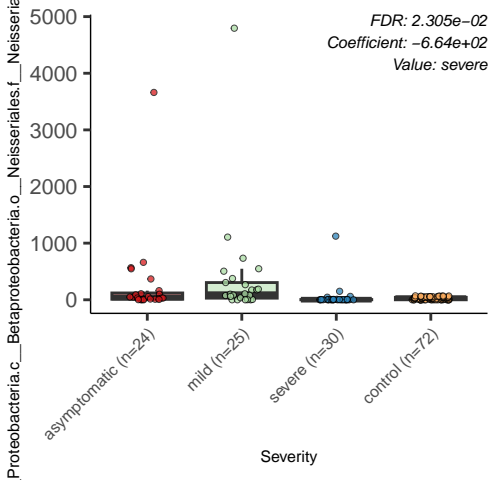


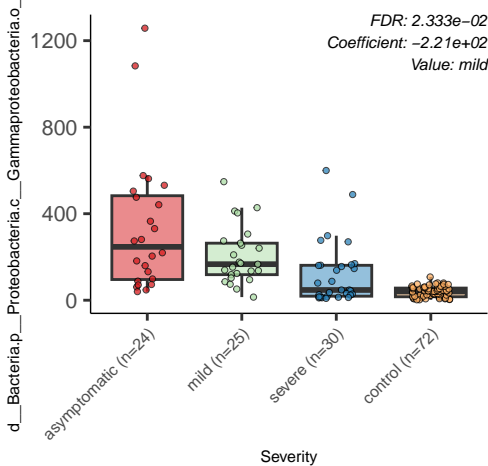


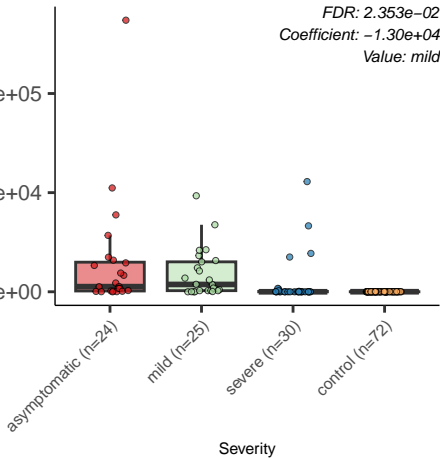
oteobacteria.c__Betaproteobacteria.o__Neisseriales.f__Neisseriace

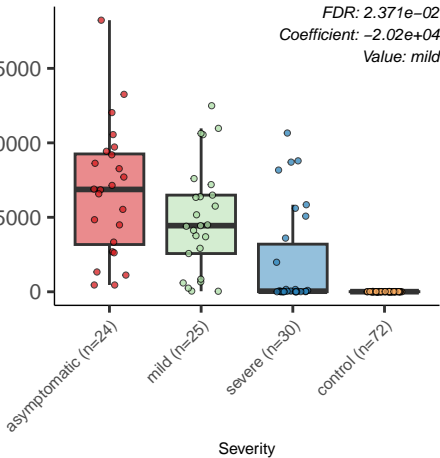




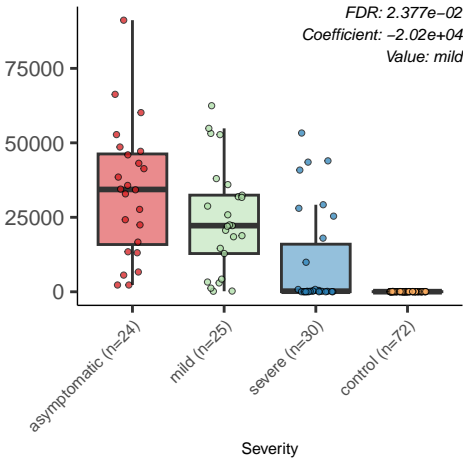


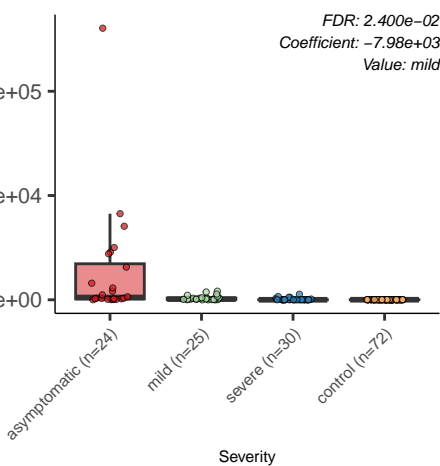


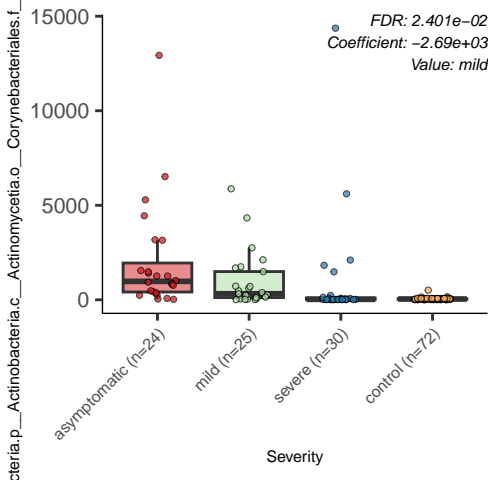




.c__Alphaproteobacteria.o__Sphingomonadales.f__Erythrobacterac

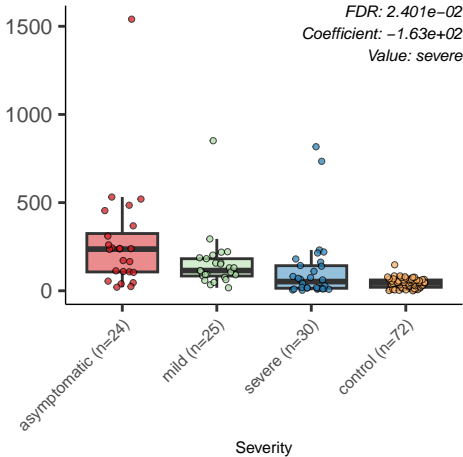


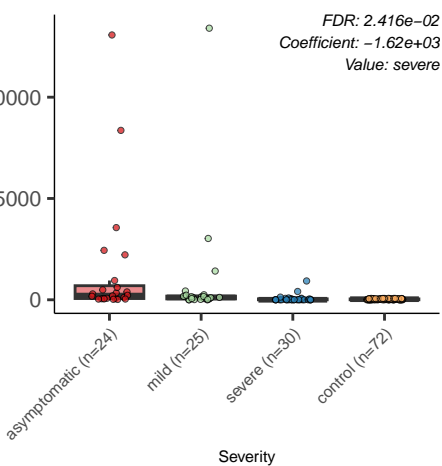


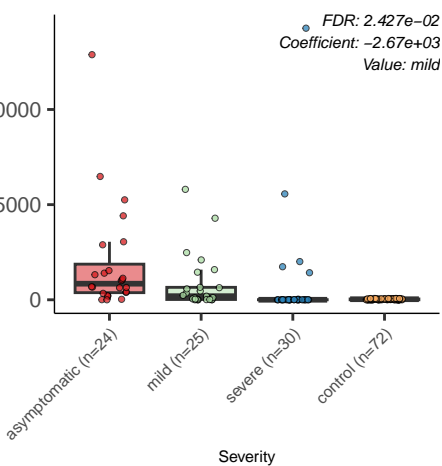


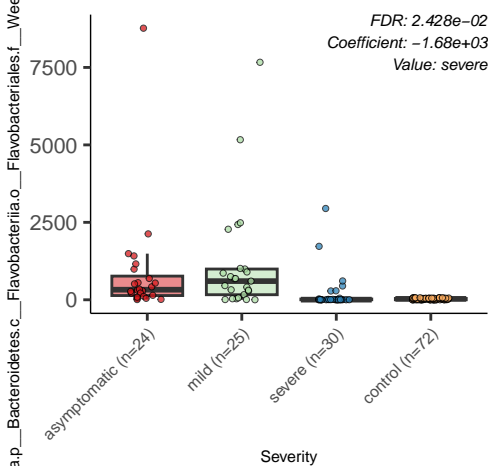
l_Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Ricketts

FDR: $2.401e-02$
Coefficient: $-1.63e+02$
Value: severe

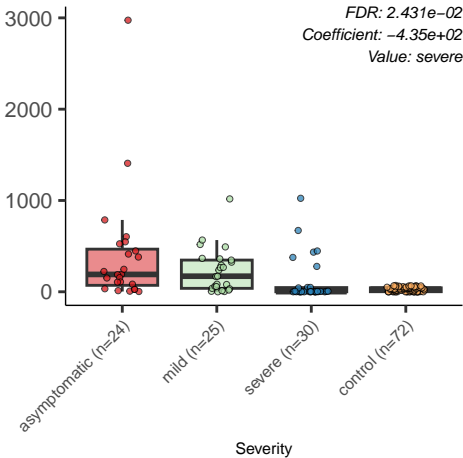


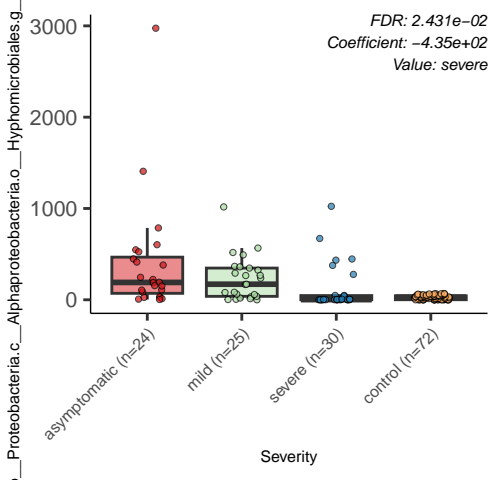


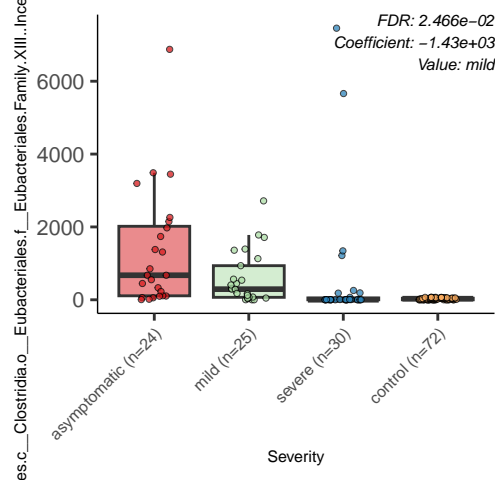


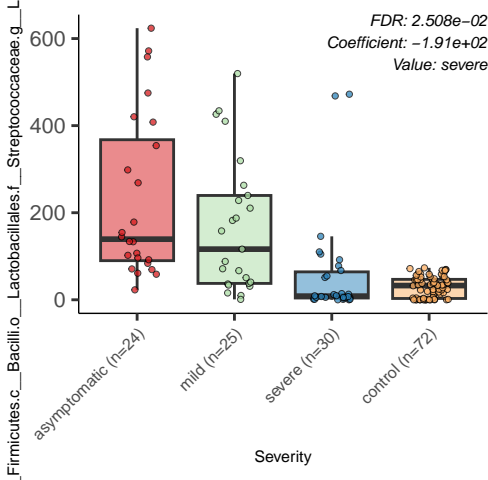


Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Hyphomicrobia

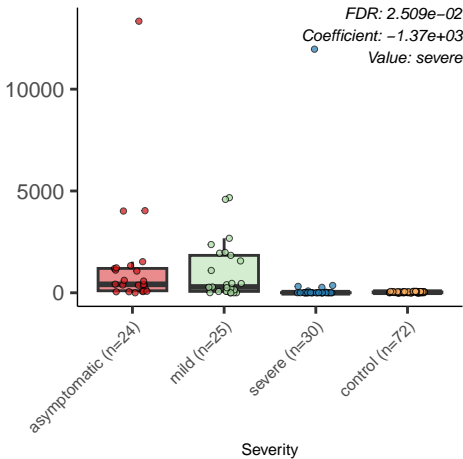


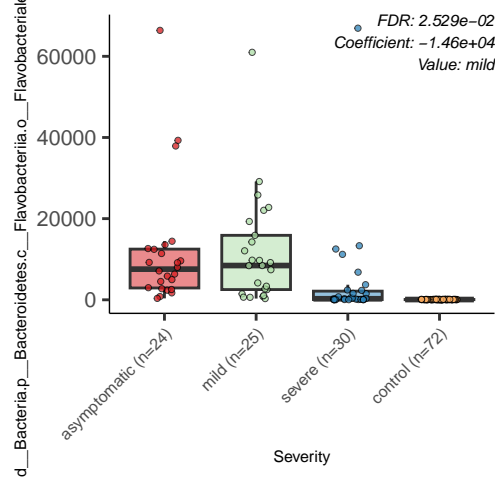




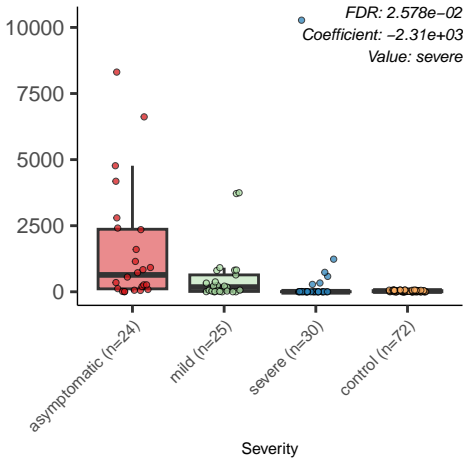


irochaetes.c__Spirochaetia.o__Spirochaetales.f__Treponemataceae

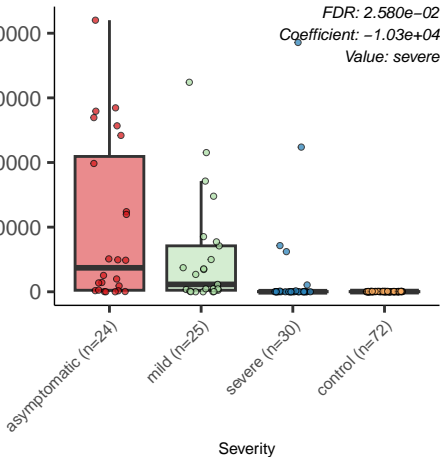


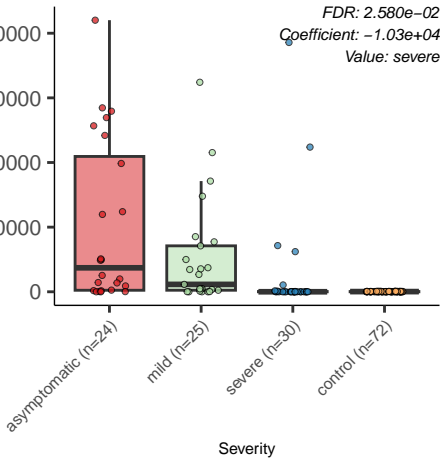


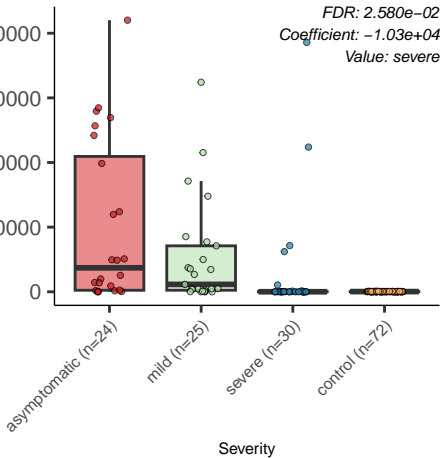
rimonadia.o__Candidatus.Nanosynbacterales.f__Candidatus.Nanos

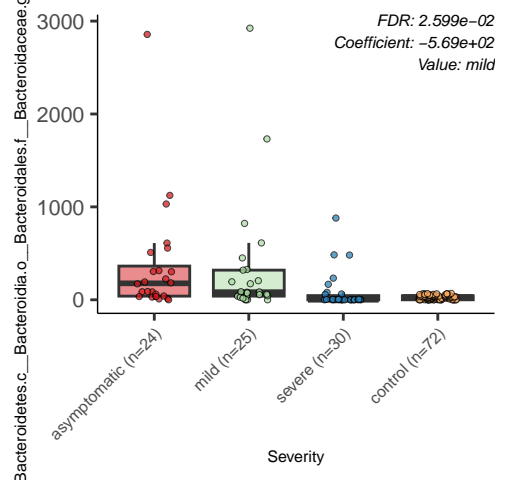


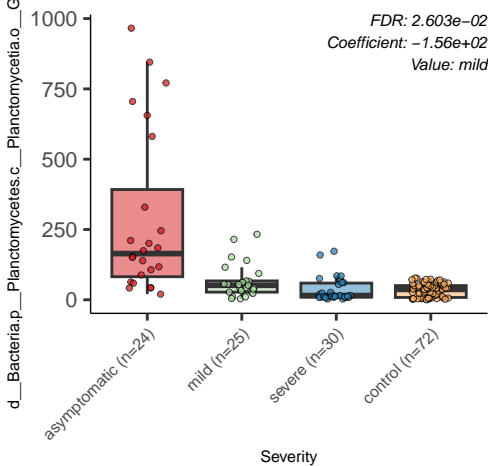
d_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.

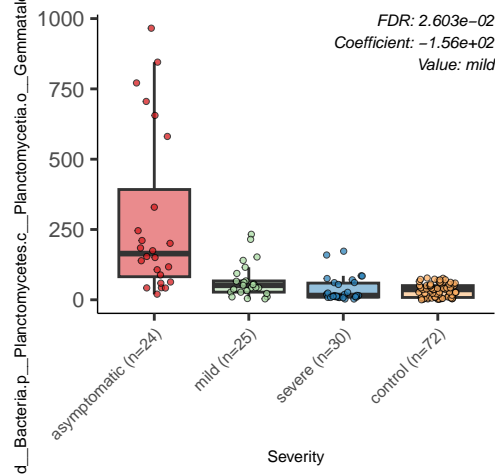




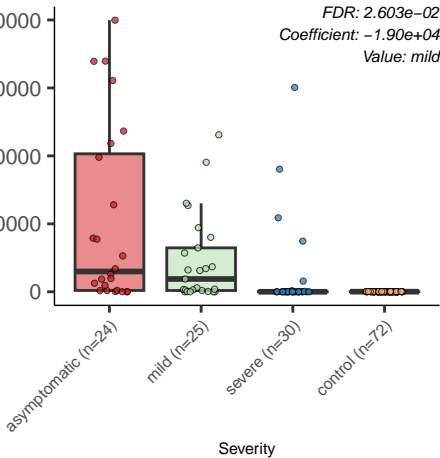




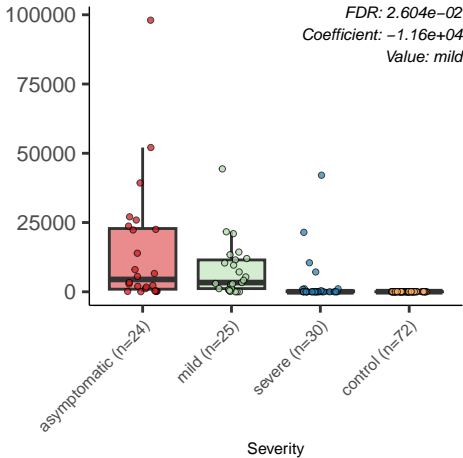




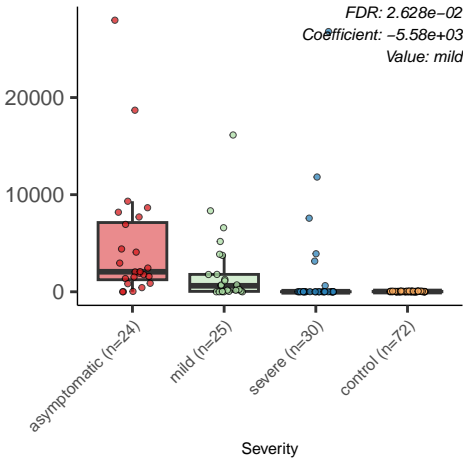
eroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidaceae.g__B

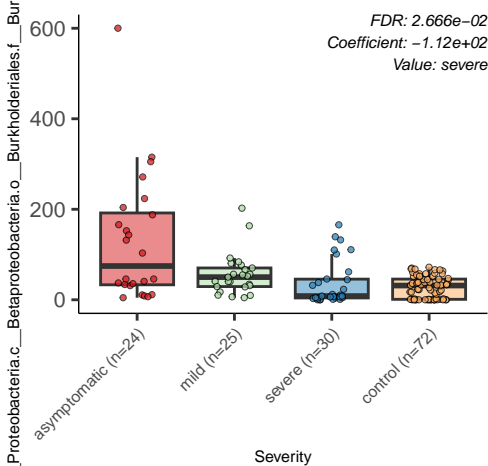


d__Bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__

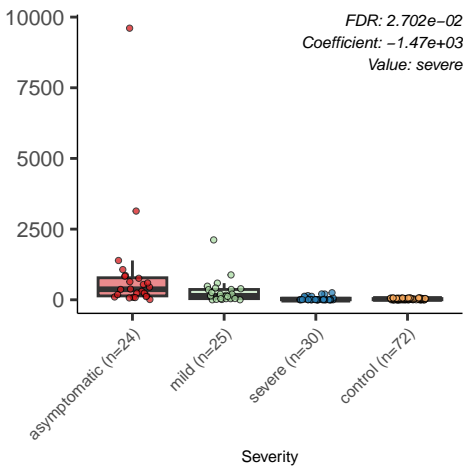


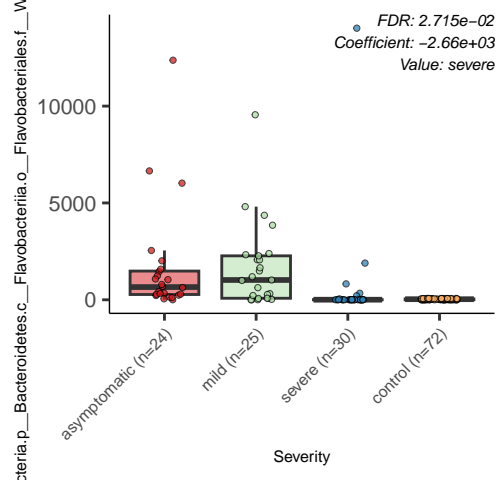
bacteria.c_Actinomycetia.o_Micrococcales.f_Microbacteriaceae.g

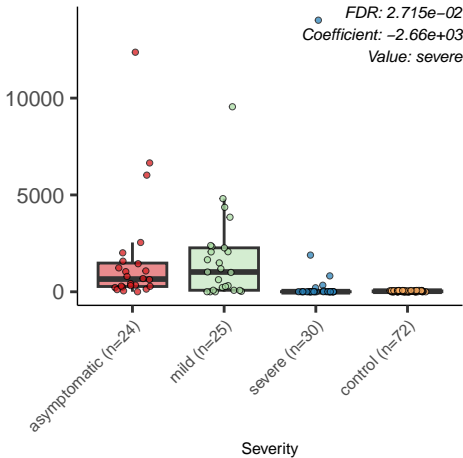


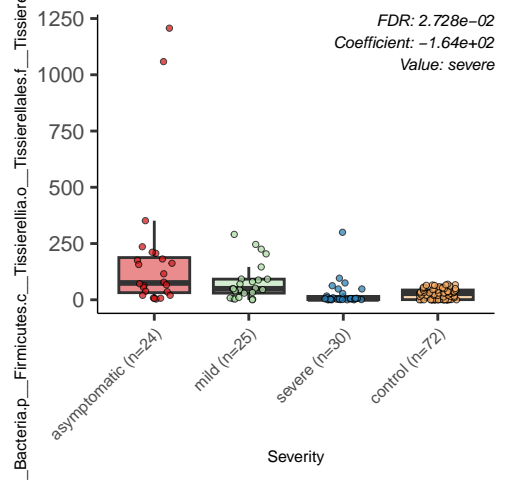


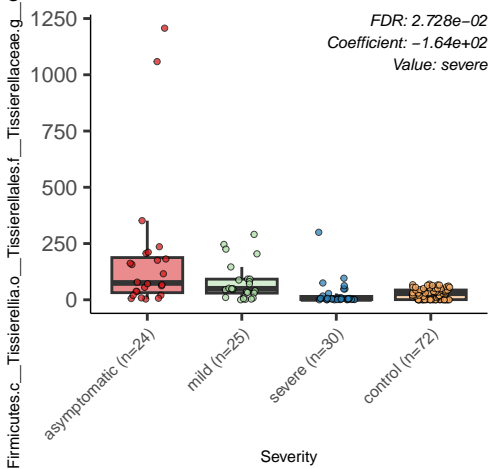
Firmicutes.c_Bacilli.o_Lactobacillales.f_Streptococcaceae.g_St

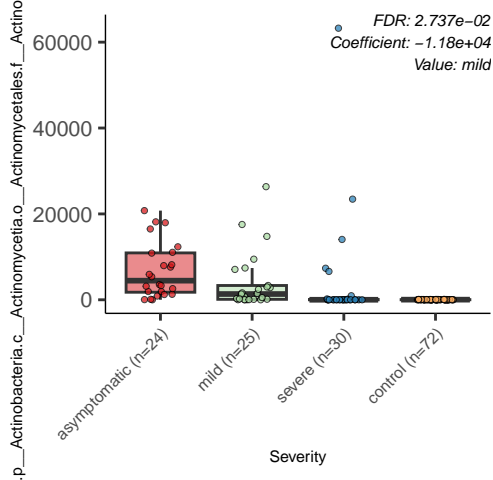




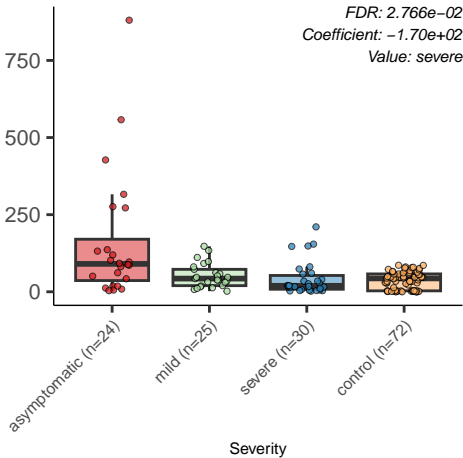


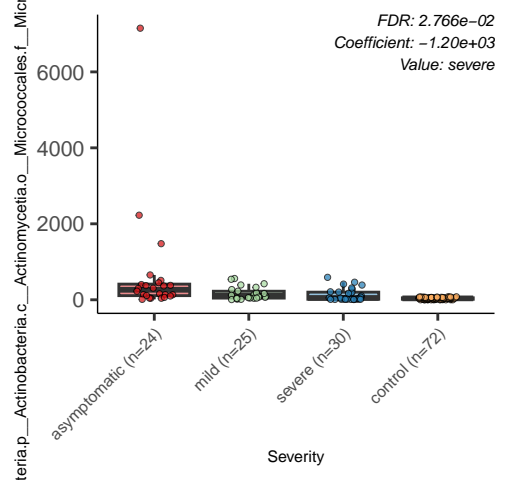




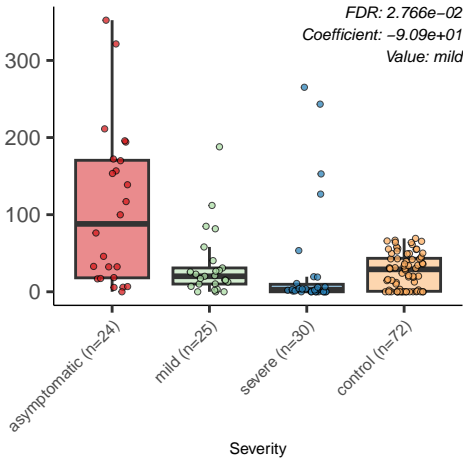


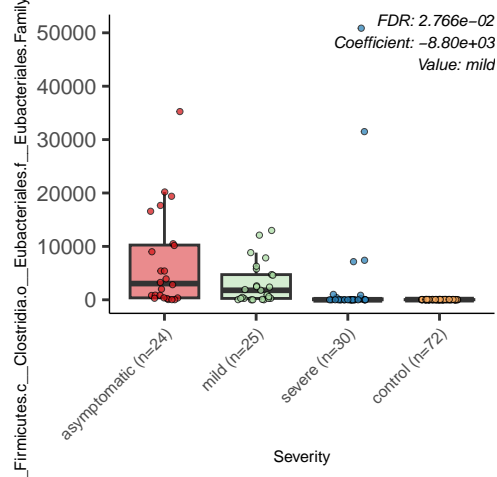
eria.p_Actinobacteria.c_Actinomycetia.o_Micrococcales.f_Micro



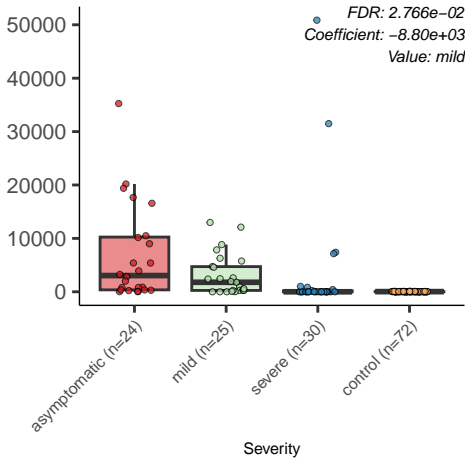


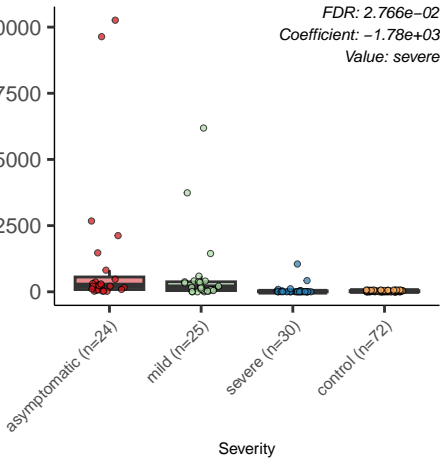
ria.p__Firmicutes.c__Erysipelotrichia.o__Erysipelotrichales.f__Erys

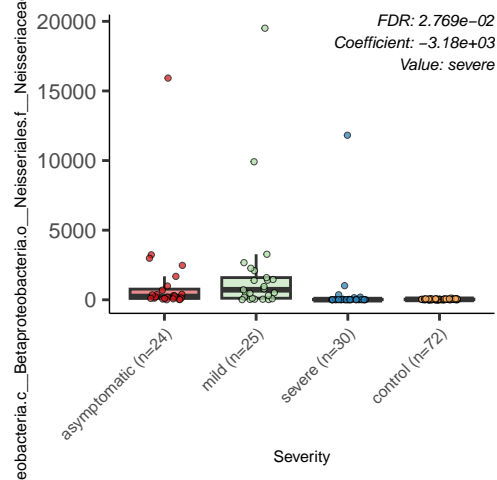




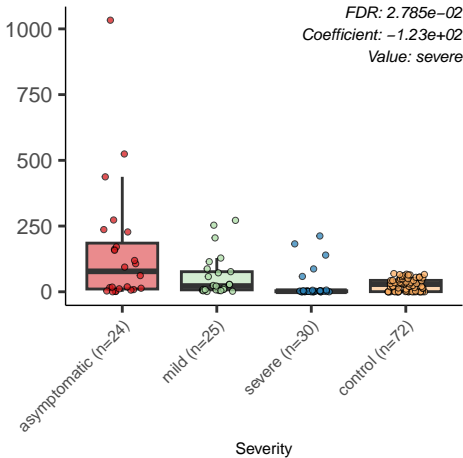
Clostridia.o_Eubacteriales.f_Eubacteriales.Family.XIII..Incerta



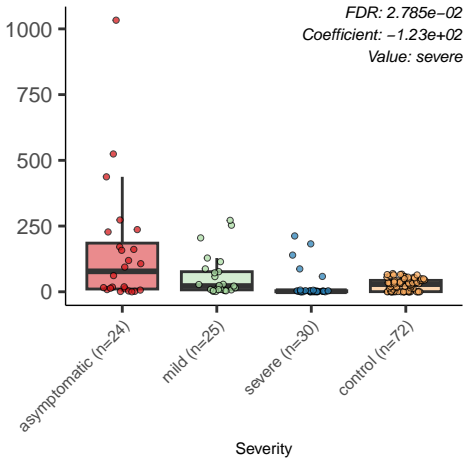




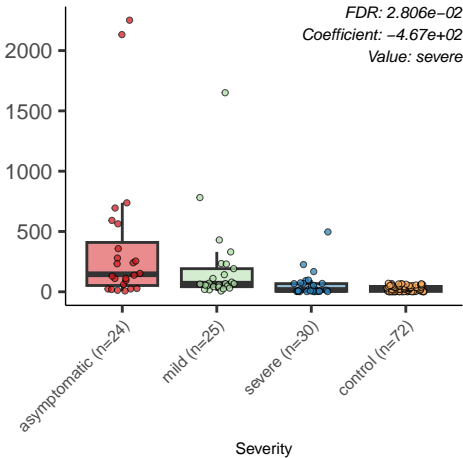
bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Syne



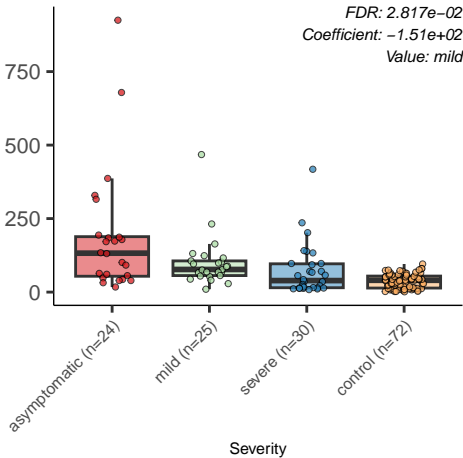
Synergistetes.c__Synergistia.o__Synergistales.f__Synergistaceae.g

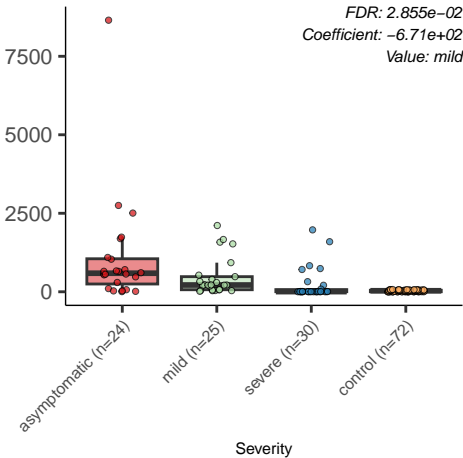


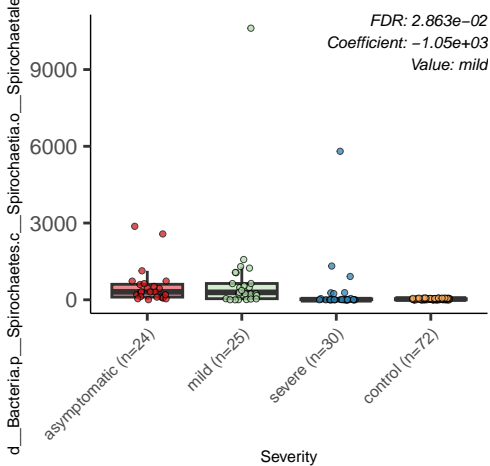
Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Eubacteri

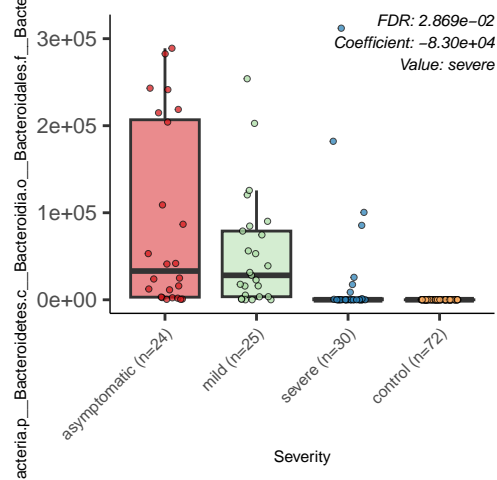


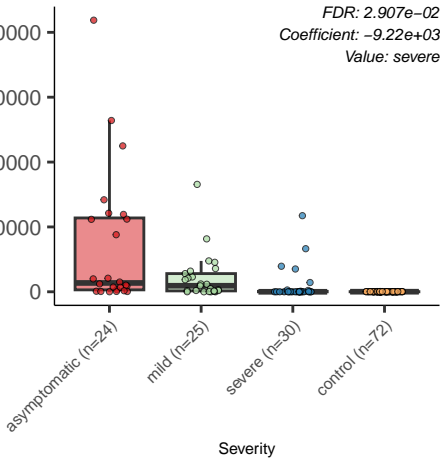
_Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Chroma



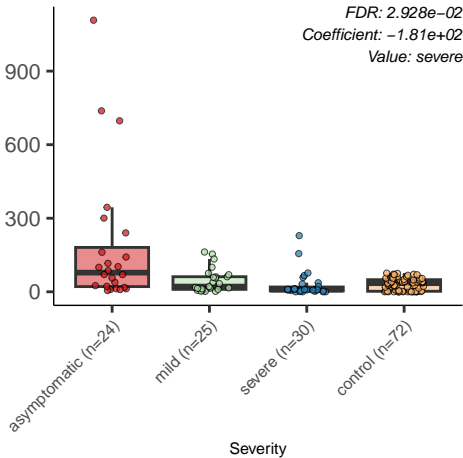


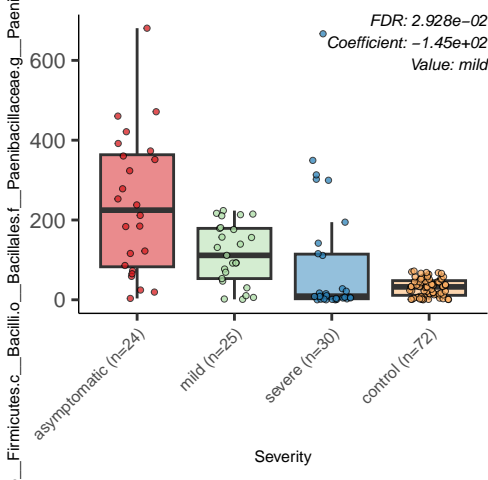






bidetes.c__Cytophagia.o__Cytophagales.f__Hymenobacteraceae.g





d_Bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f

2000

1000

0

asymptomatic (n=24)

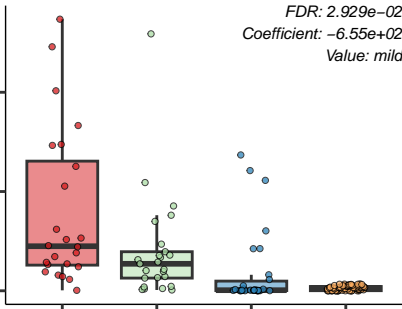
mild (n=25)

severe (n=30)

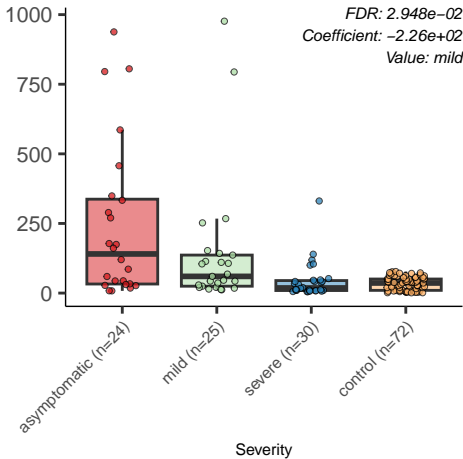
control (n=72)

Severity

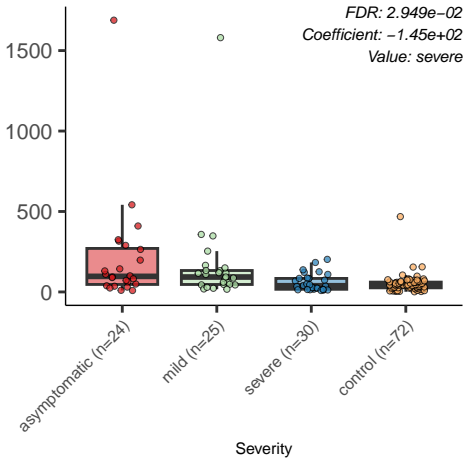
FDR: $2.929e-02$
Coefficient: $-6.55e+02$
Value: mild

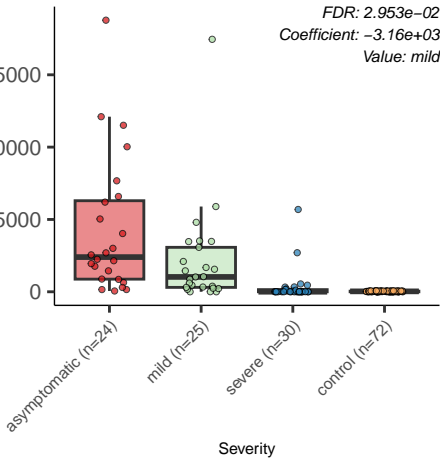


d_Bacteria.p_Thermotogae.c_Thermotogae.o_Thermotogales

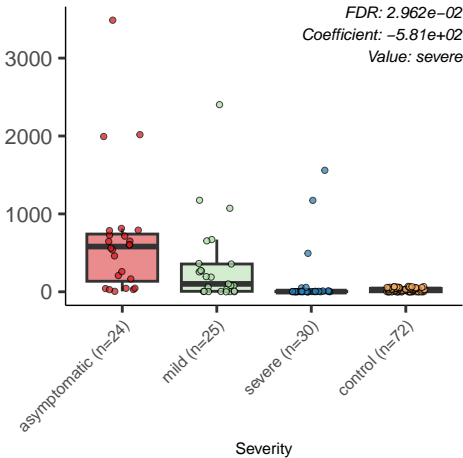


d_Bacteria.p_Actinobacteria.c_Actinomycetia.o_Corynebacteri



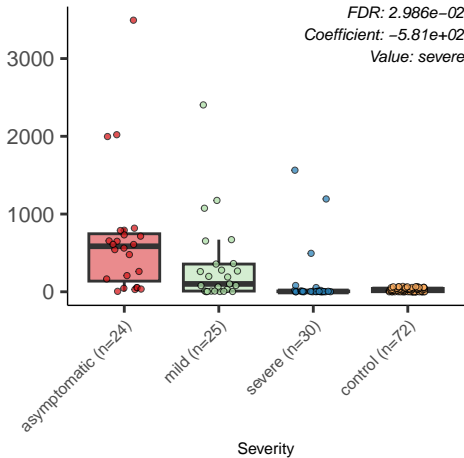


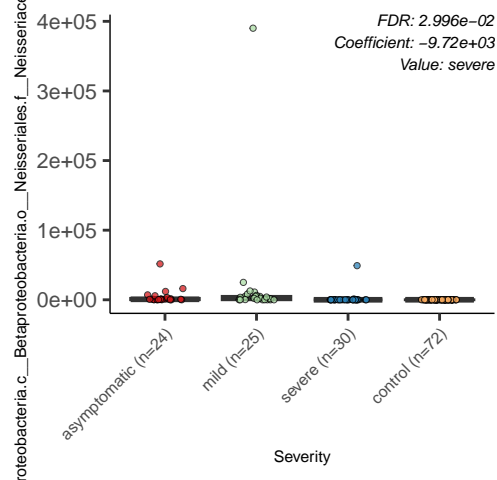
eria.c__Alphaproteobacteria.o__Rhodospirillales.f__Rhodospirillace

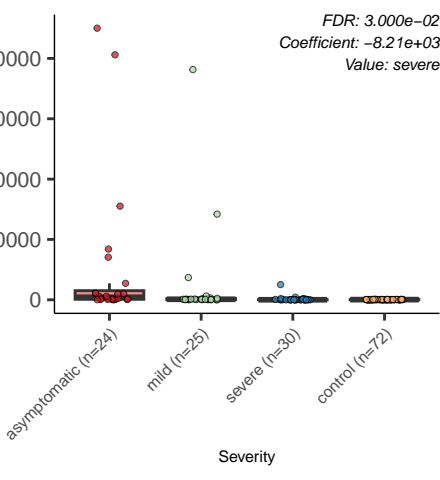


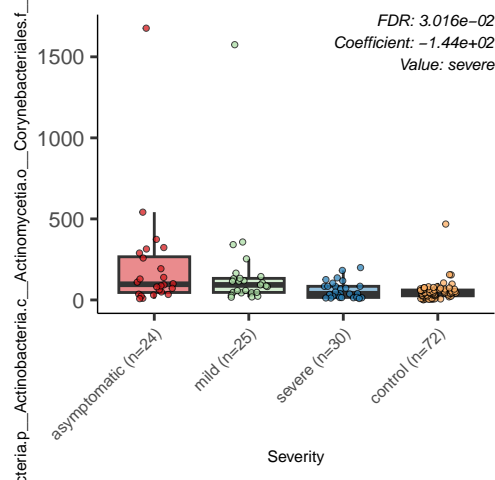
Proteobacteria.c__Alphaproteobacteria.o__Rhodospirillales.f__R

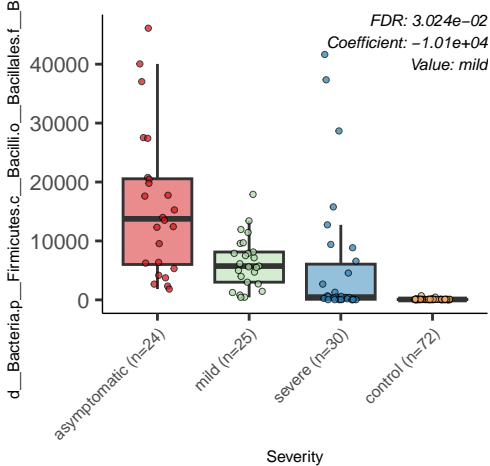
FDR: 2.986×10^{-2}
Coefficient: -5.81×10^2
Value: severe

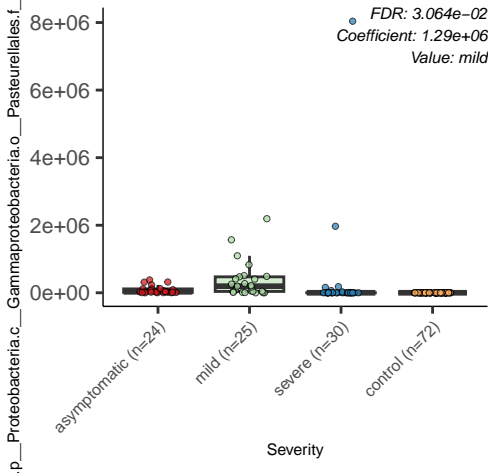


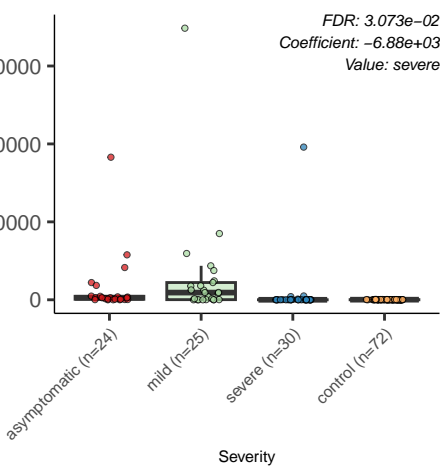




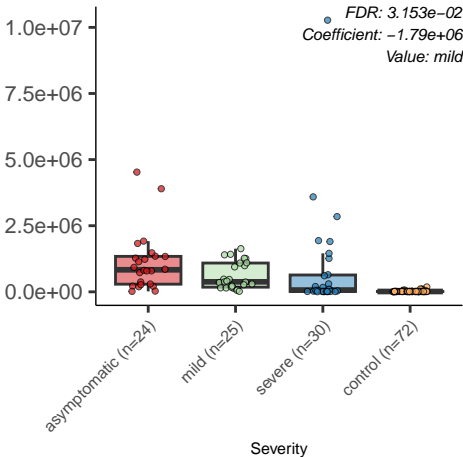


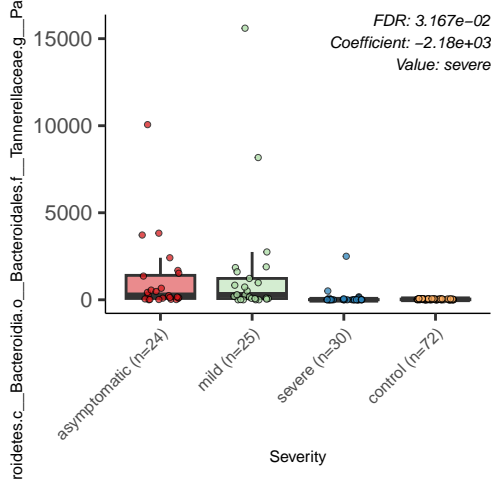




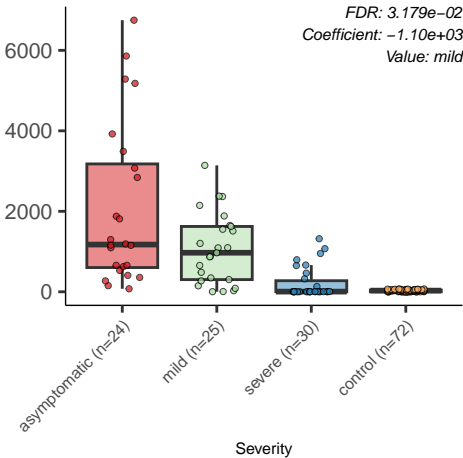


d_Bacteria.p_Actinobacteria



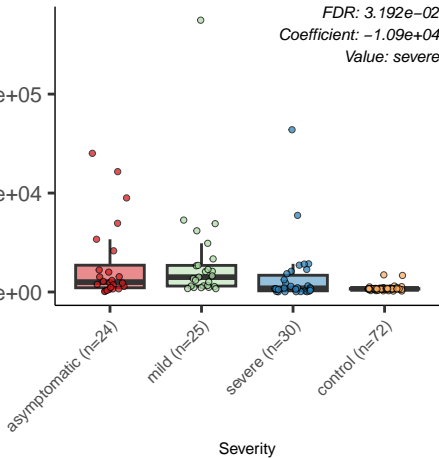


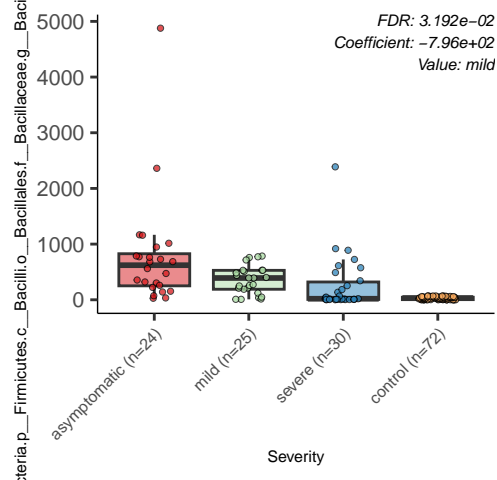
rmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Stre



__Proteobacteria.c__Gammaproteobacteria.o__Oceanospirillales.f

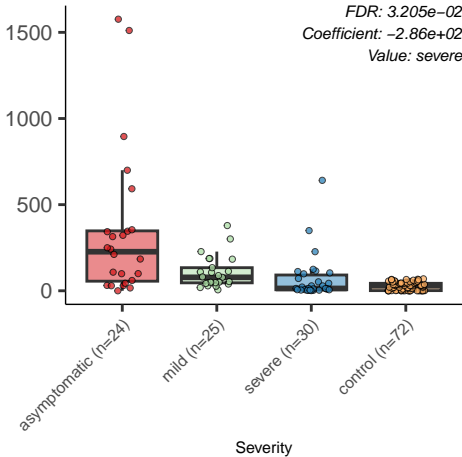
FDR: 3.192e-02
Coefficient: -1.09e+04
Value: severe

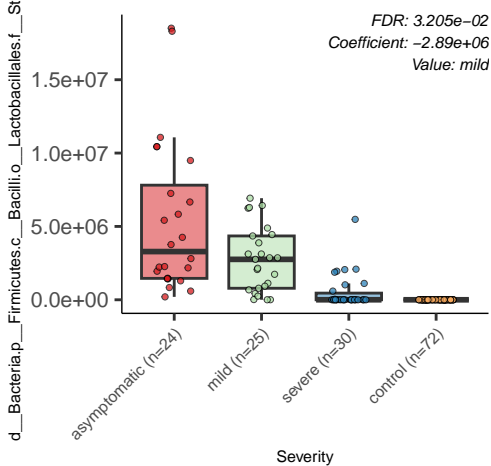




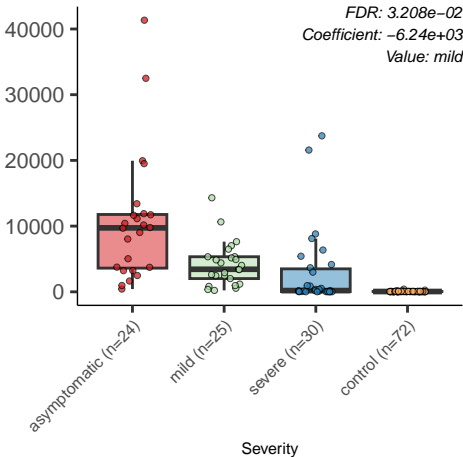
Firmicutes.c_Bacilli.o_Lactobacillales.f_Lactobacillaceae.g_La

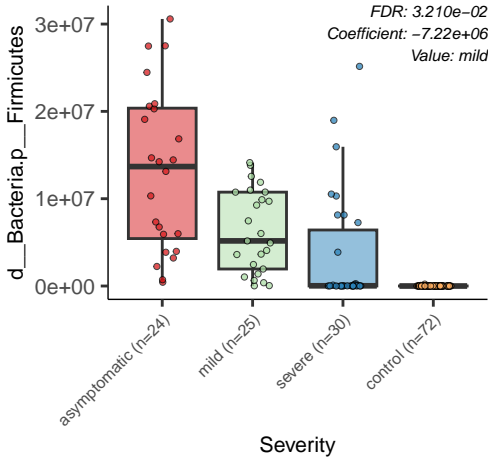
FDR: 3.205e-02
Coefficient: -2.86e+02
Value: severe

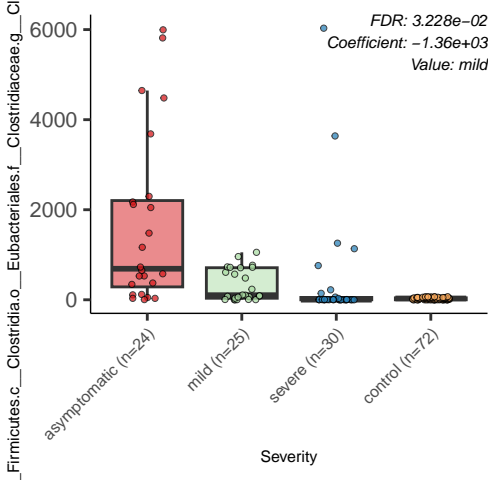




d_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Bacillao







FDR: $3.264e-02$
Coefficient: $-2.85e+02$
Value: mild

1000

500

0

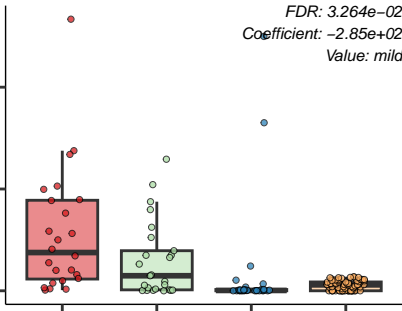
asymptomatic (n=24)

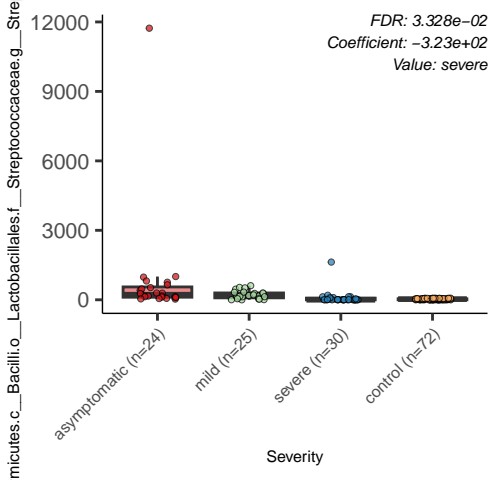
mild (n=25)

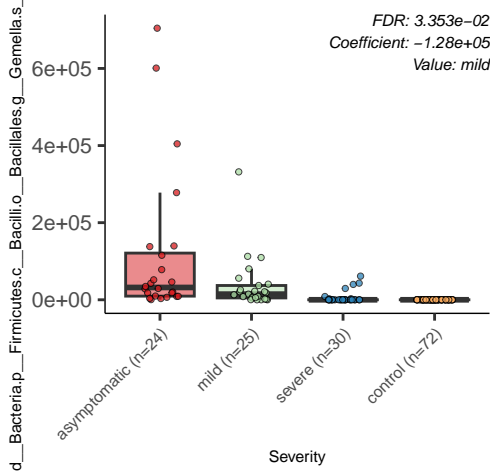
severe (n=30)

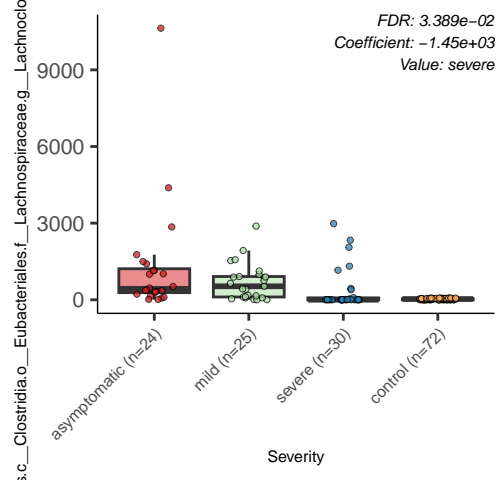
control (n=72)

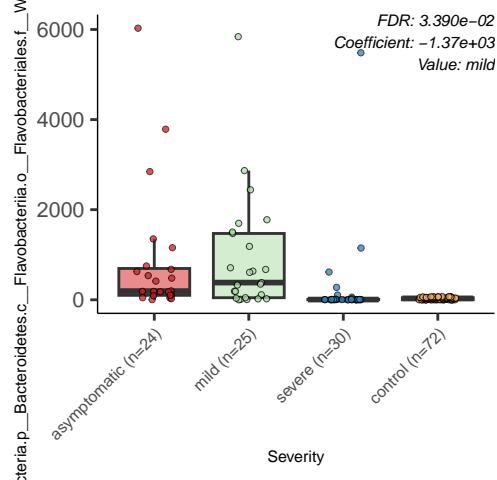
Severity

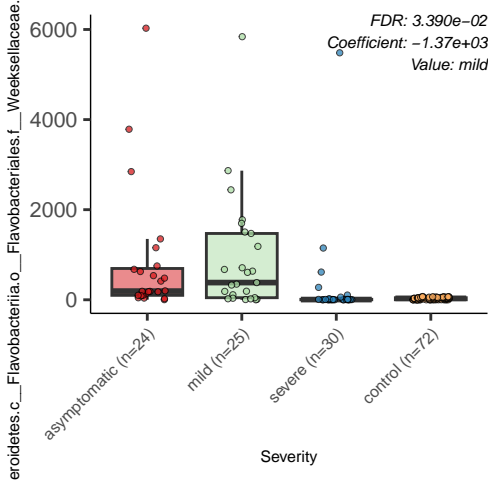


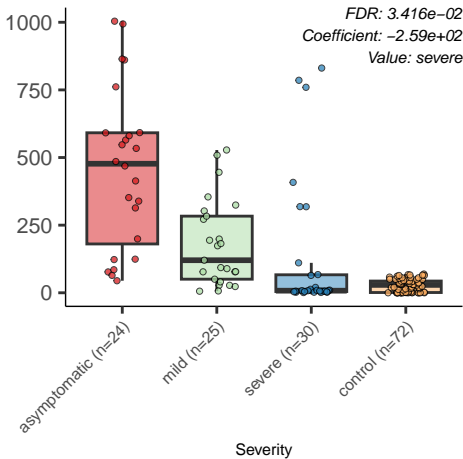


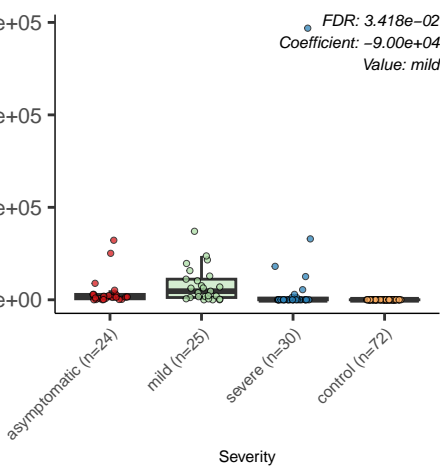


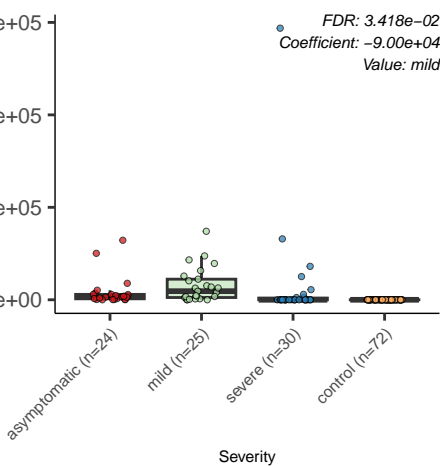












bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Desulfobacte

10000

5000

0

asymptomatic (n=24)

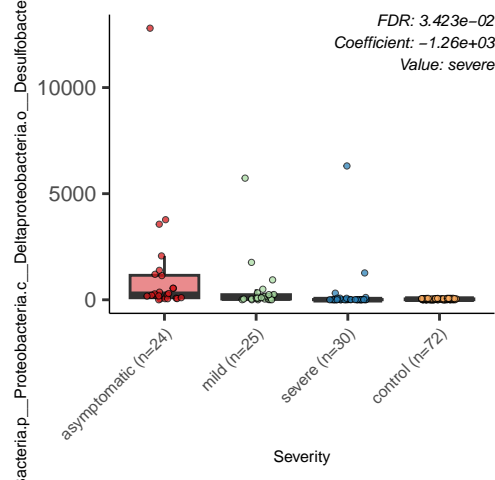
mild (n=25)

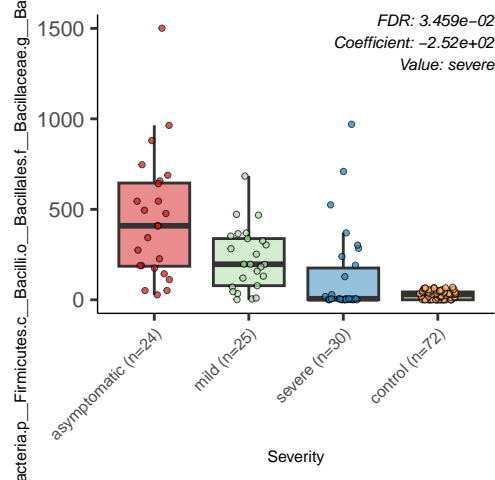
severe (n=30)

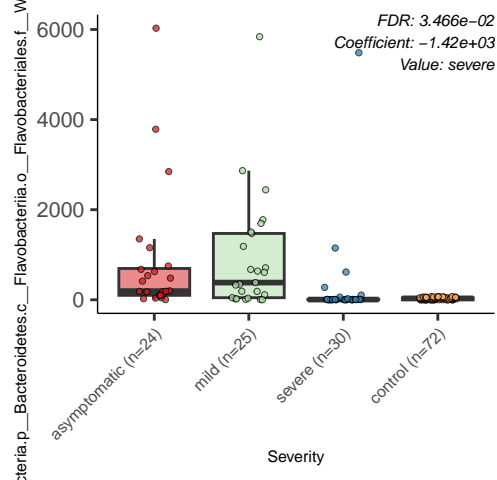
control (n=72)

Severity

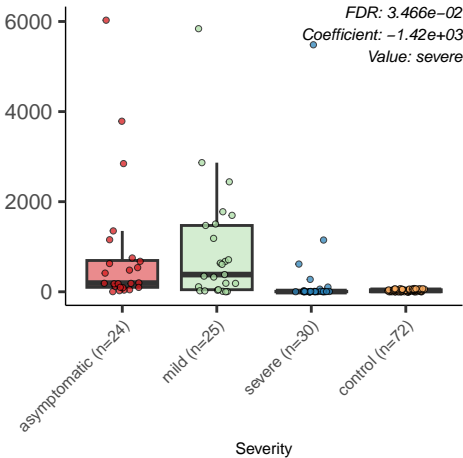
FDR: $3.423e-02$
Coefficient: $-1.26e+03$
Value: severe

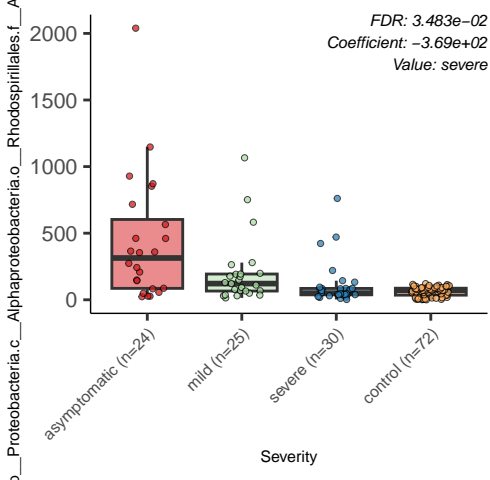




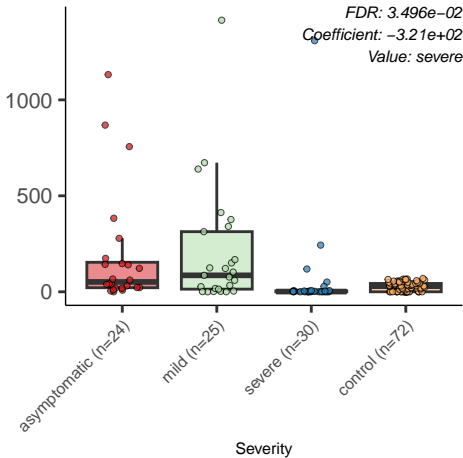


eroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Weeksellaceae.

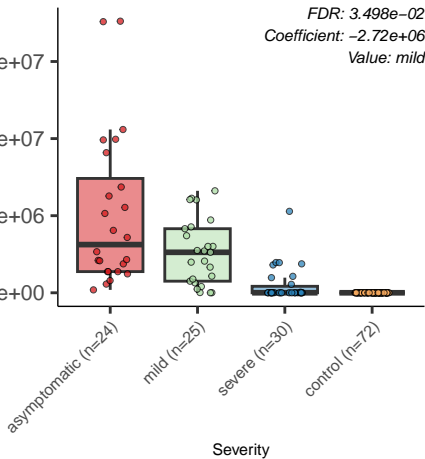


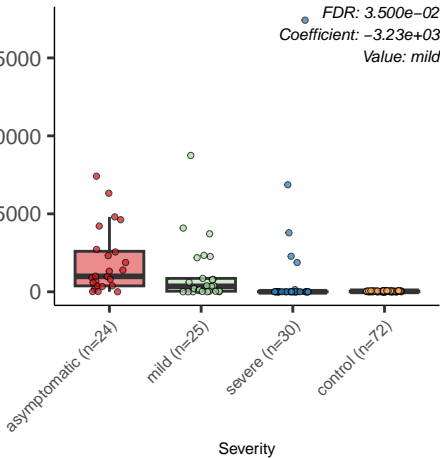


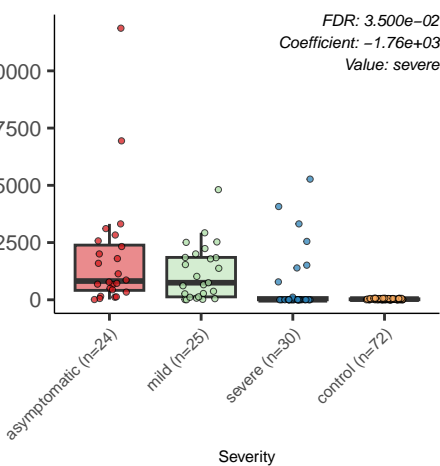
tes.c_Flavobacteriia.o_Flavobacteriales.f_Weeksellaceae.g_CP



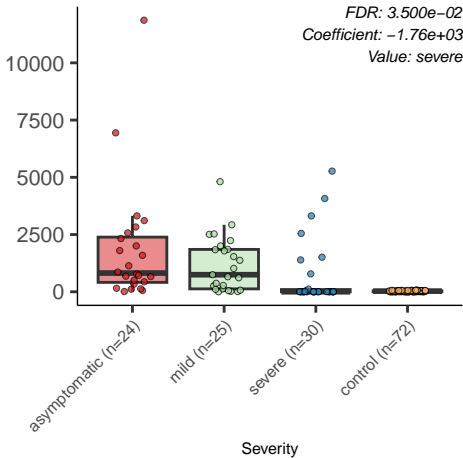
Bacteria.p_Firmicutes.c_Bacilli.o_Lactobacillales.f_Streptococ

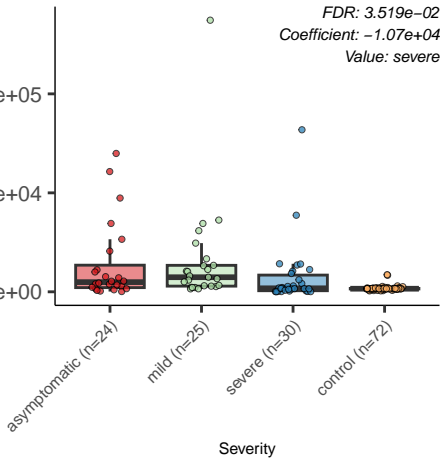




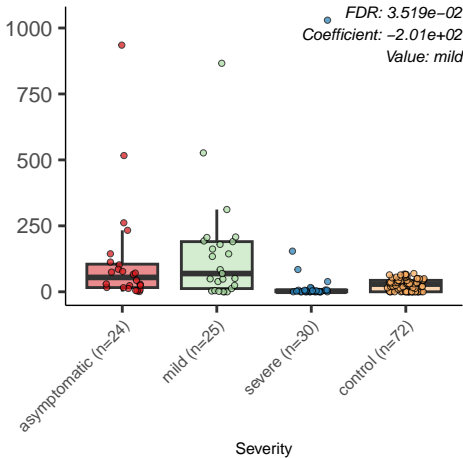


es.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__Pseudob

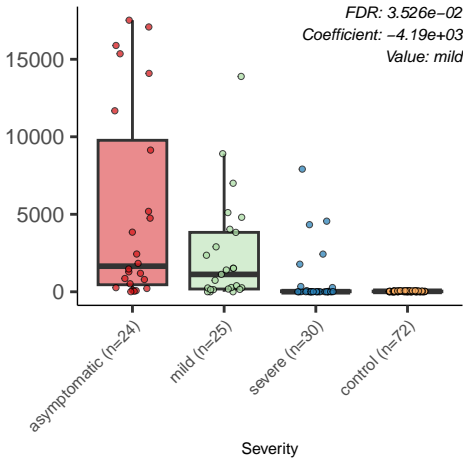




.c__Flavobacteriia.o__Flavobacteriales.f__Weeksellaceae.g__Eliza



Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Bacteroidaceae.g



Firmicutes.c_Bacilli.o_Lactobacillales.f_Streptococcaceae.g

2000

1000

0

FDR: $3.545e-02$

Coefficient: $-4.65e+02$

Value: mild

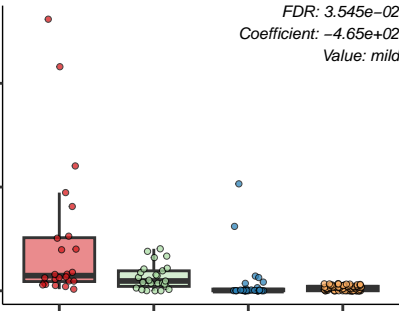
asymptomatic (n=24)

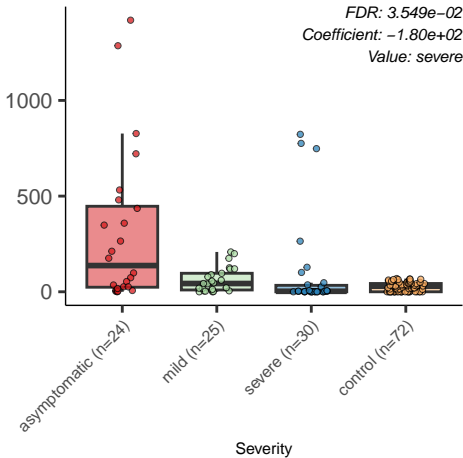
mild (n=25)

severe (n=30)

control (n=72)

Severity





Bacteria.p_Actinobacteria.c_Thermoleophilia.o_Solirubrobactera

FDR: $3.555e-02$
Coefficient: $-4.15e+02$
Value: severe

2000
1000
0

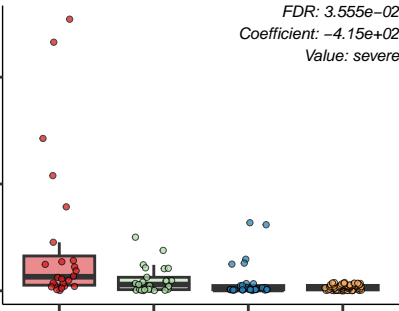
asymptomatic (n=24)

mild (n=25)

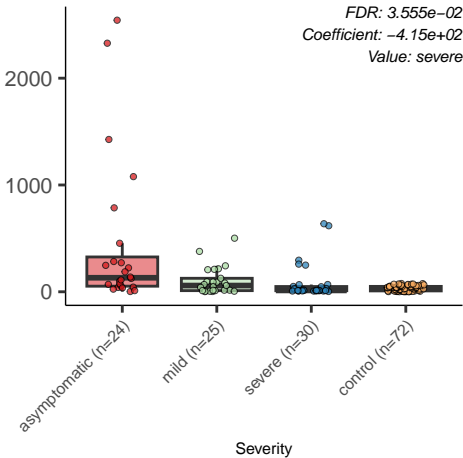
severe (n=30)

control (n=72)

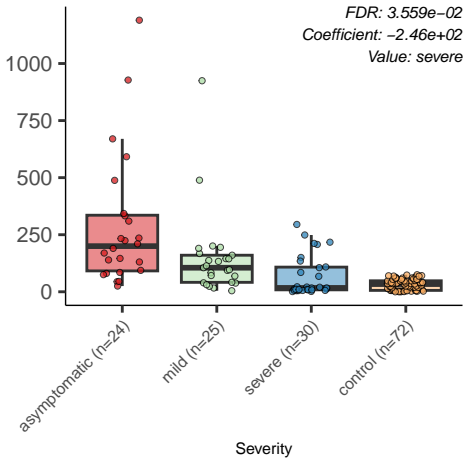
Severity

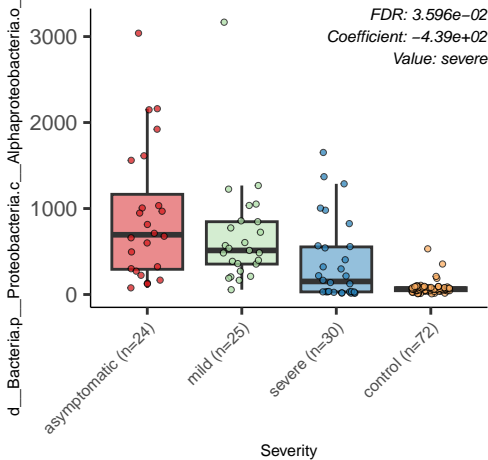


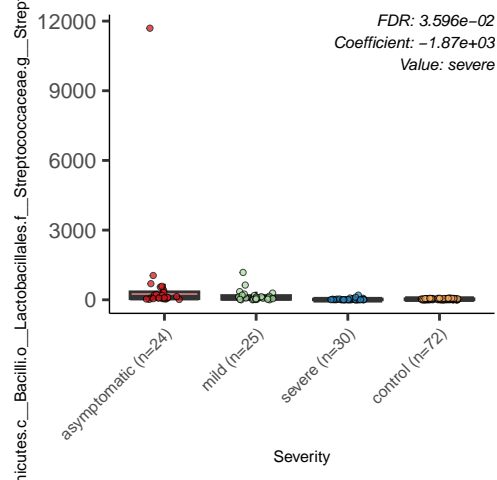
o_Actinobacteria.c_Thermoleophilia.o_Solirubrobacterales.f_Co

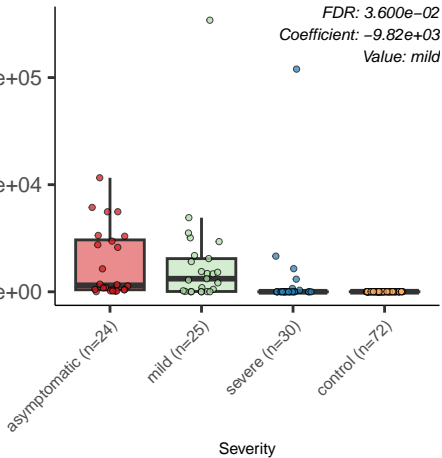


firmicutes.c__Clostridia.o__Thermoanaerobacterales.f__Thermoana

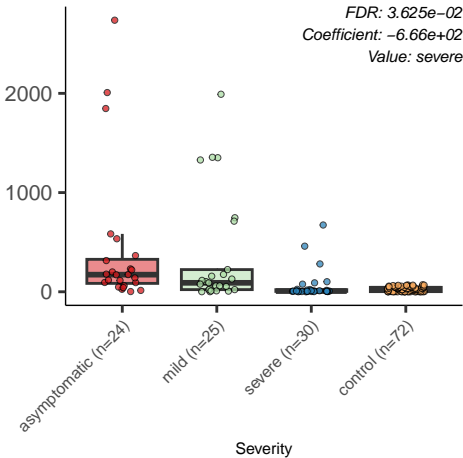


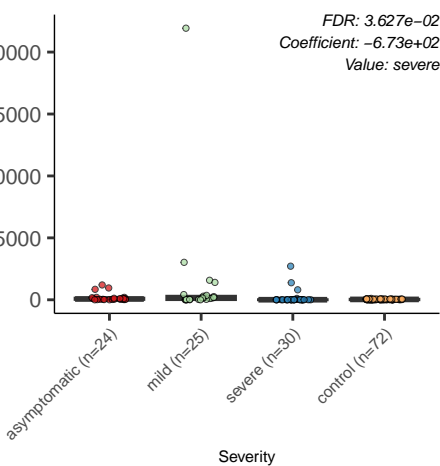




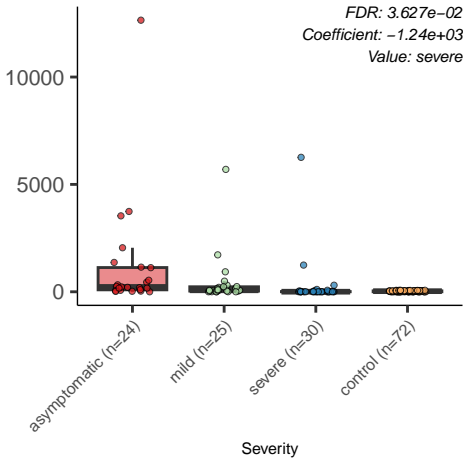


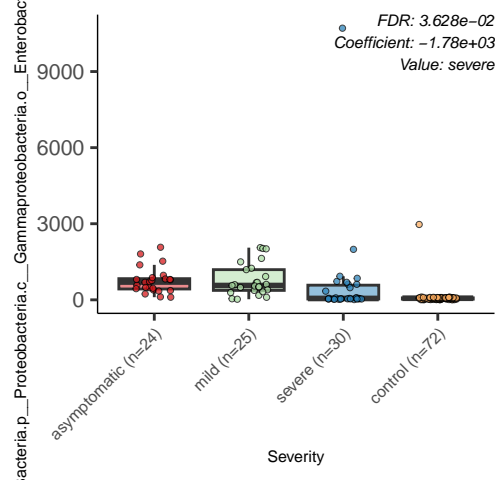
cteria.c_Actinomycetia.o_Actinomycetales.f_Actinomycetaceae.





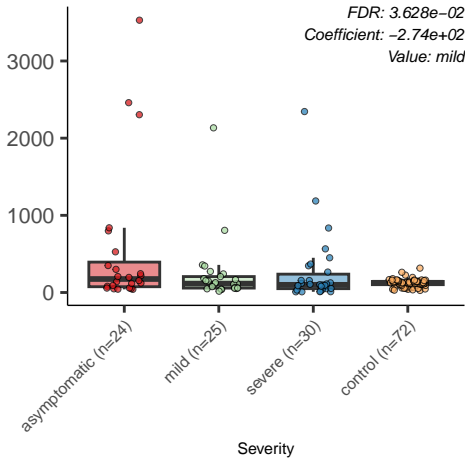
Proteobacteria.c__Deltaproteobacteria.o__Desulfobacterales.f__



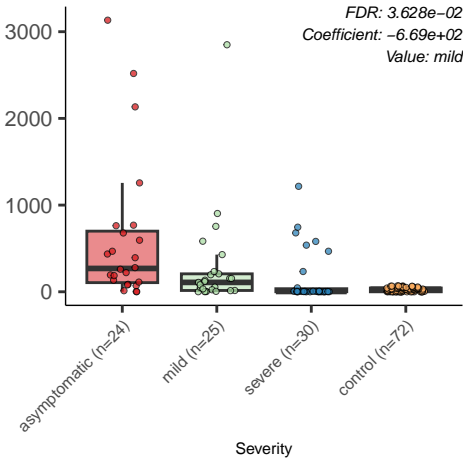


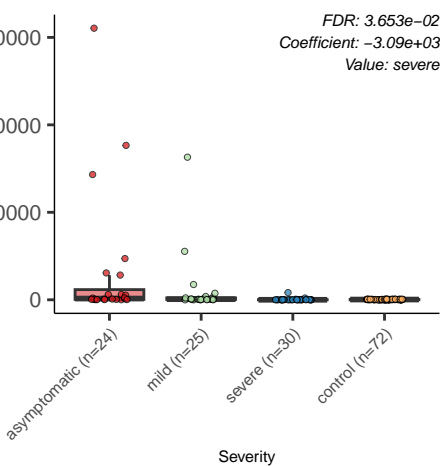
Gammaaproteobacteria.o__Pseudomonadales.f__Pseudomonada

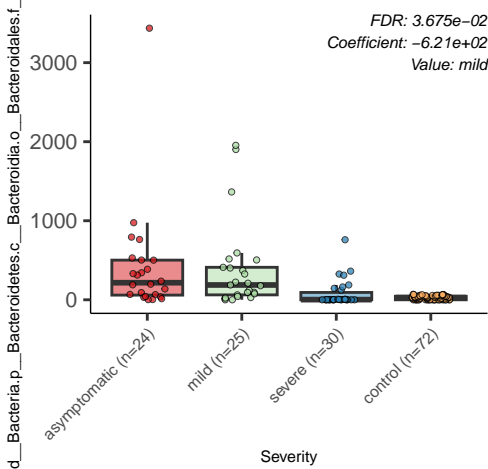
FDR: $3.628e-02$
Coefficient: $-2.74e+02$
Value: mild



inobacteria.c_Actinomycetia.o_Actinomycetales.f_Actinomycetia

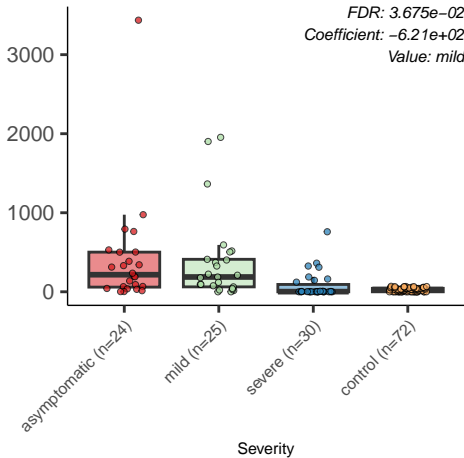




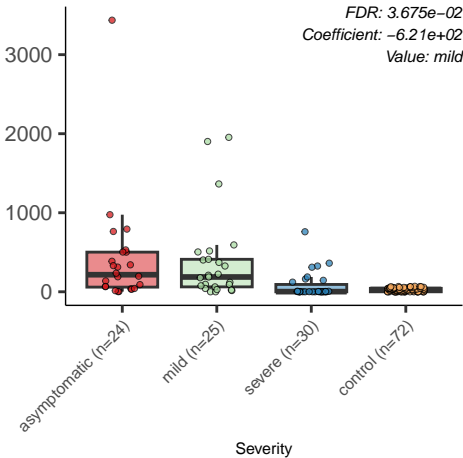


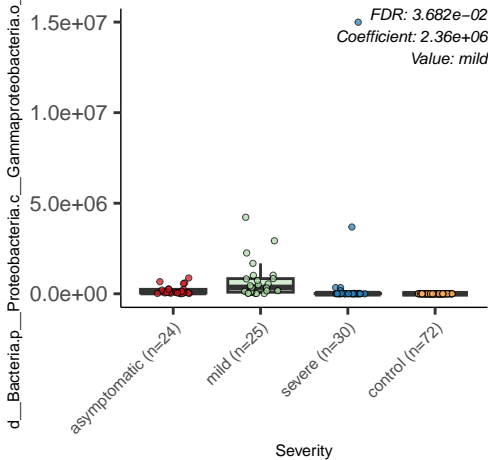
acteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Paludib

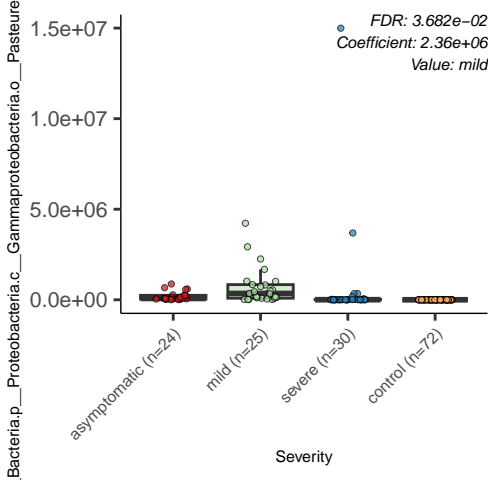
FDR: 3.675e-02
Coefficient: -6.21e+02
Value: mild



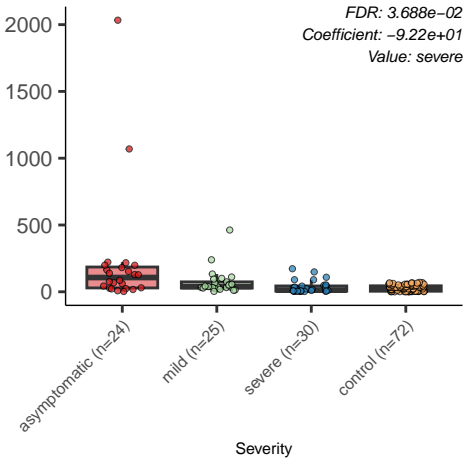
idetes.c_Bacteroidia.o_Bacteroidales.f_Paludibacteraceae.g

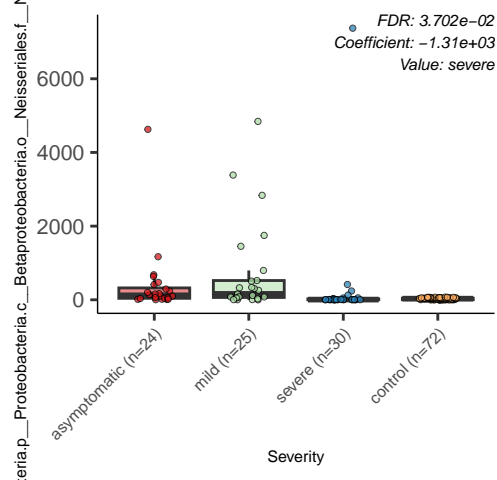




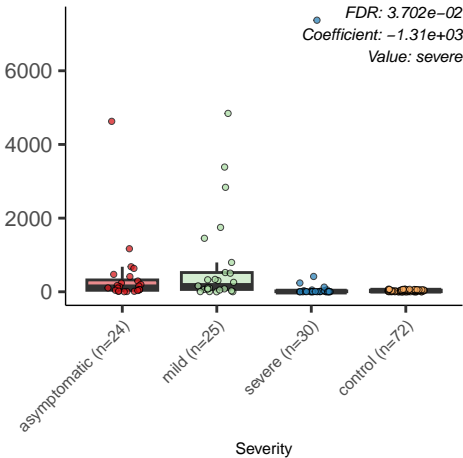


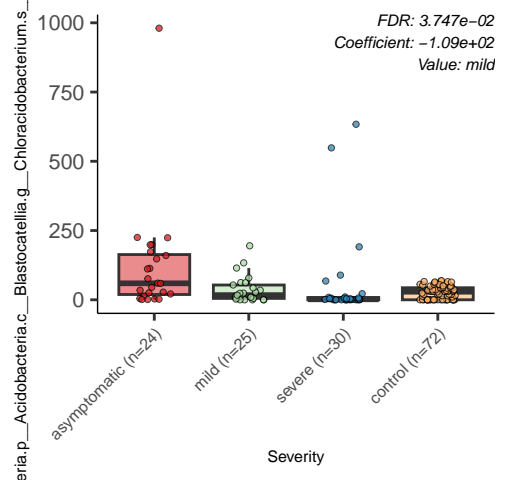
eria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomonas

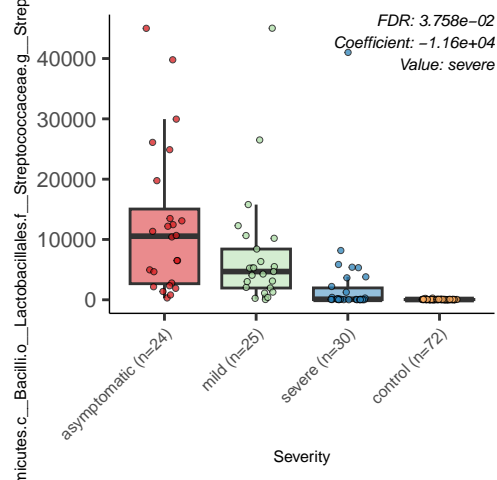




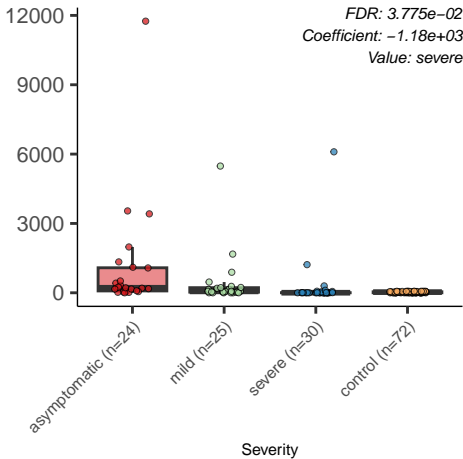
teobacteria.c__Betaproteobacteria.o__Neisseriales.f__Neisseriaceae

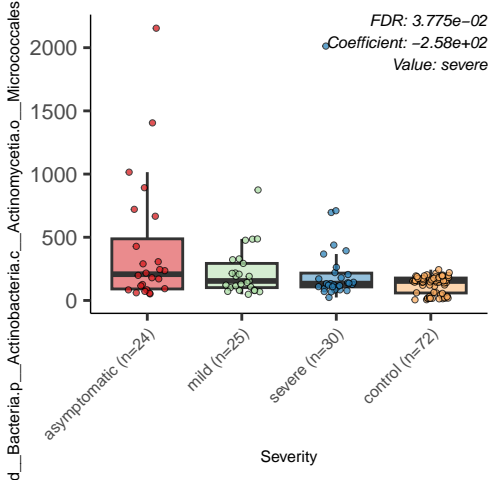


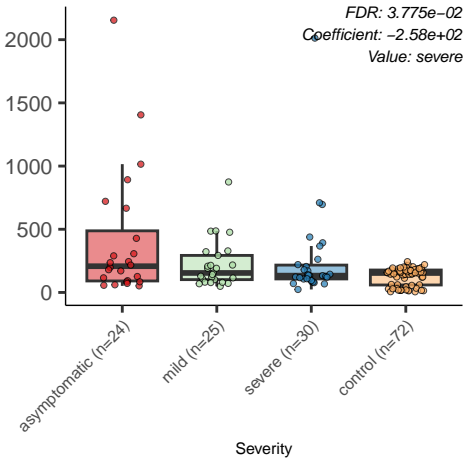


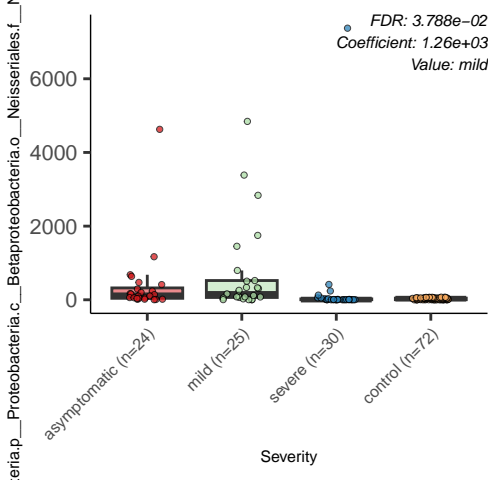


acteria.c__Deltaproteobacteria.o__Desulfobacterales.f__Desulfobulba

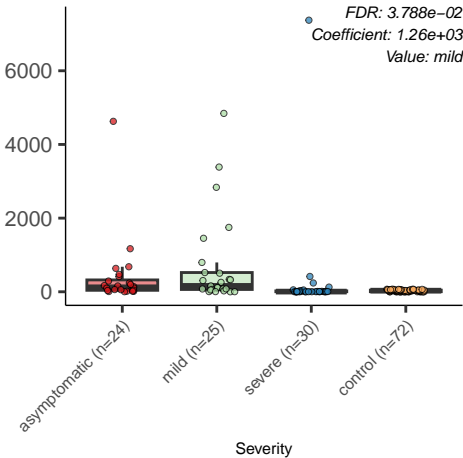




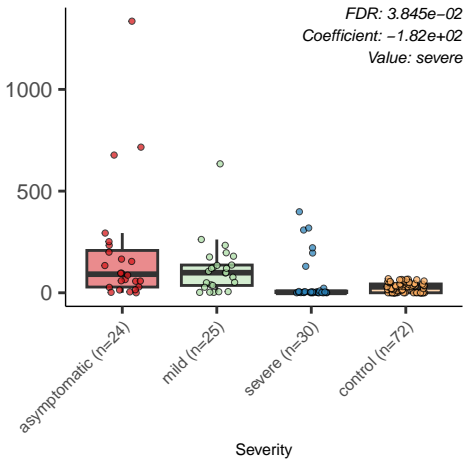


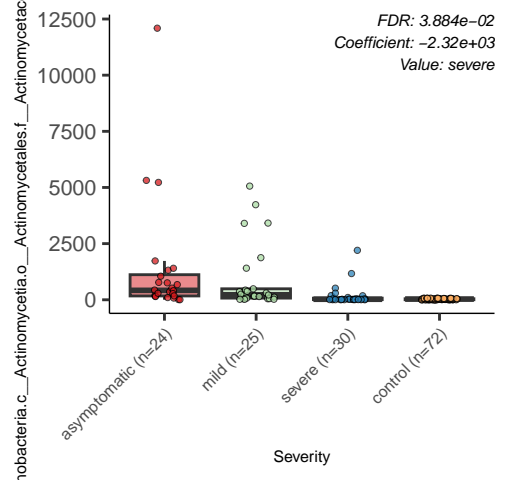


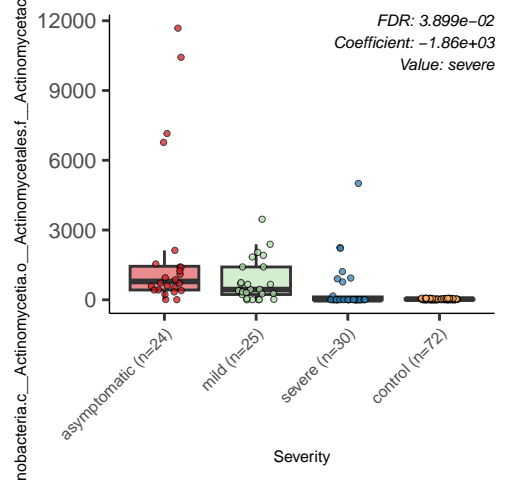
teobacteria.c__Betaproteobacteria.o__Neisseriales.f__Neisseriaceae



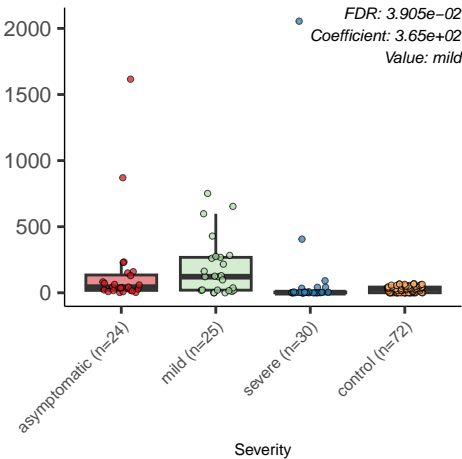
eria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnospiraceae

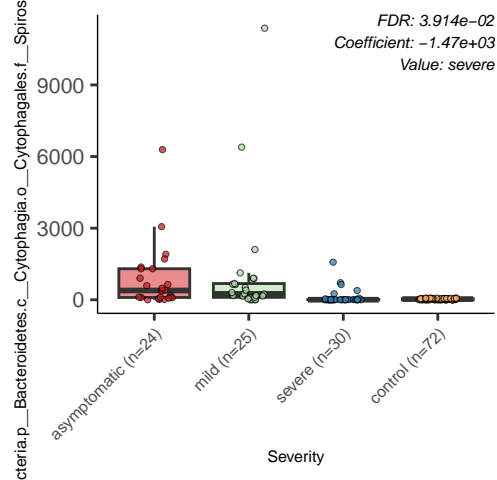


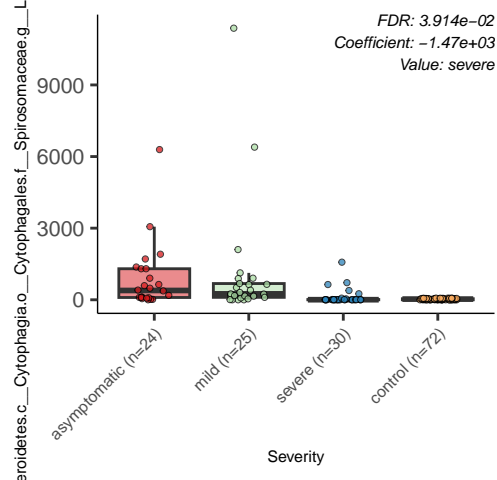


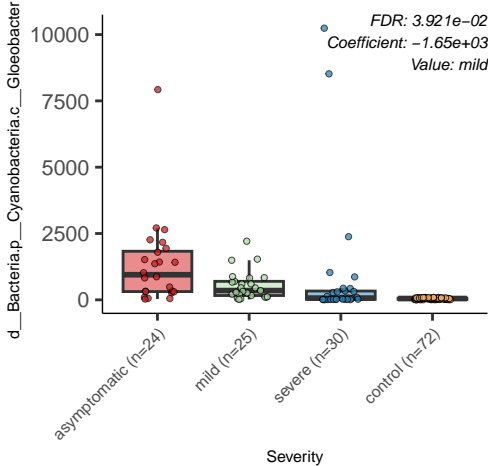


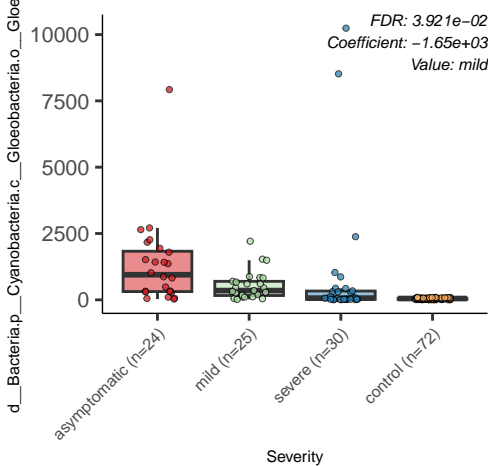
eria.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurellaceae



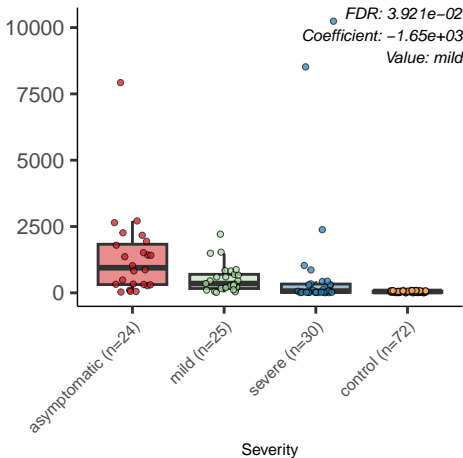




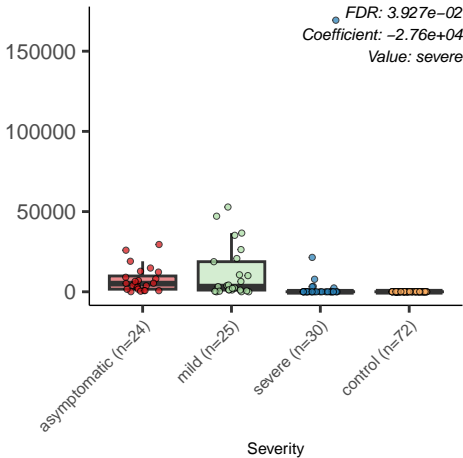


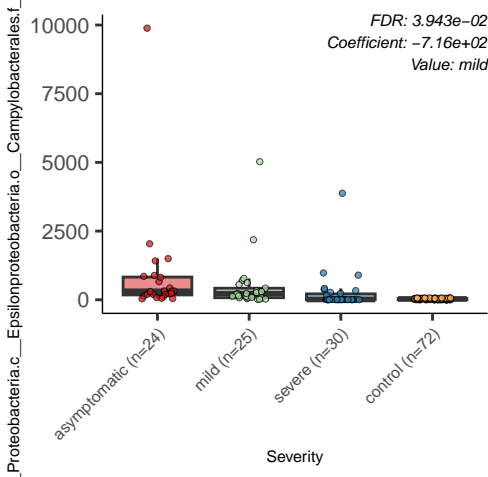


Bacteria.p__Cyanobacteria.c__Gloeobacteria.o__Gloeobacteriales



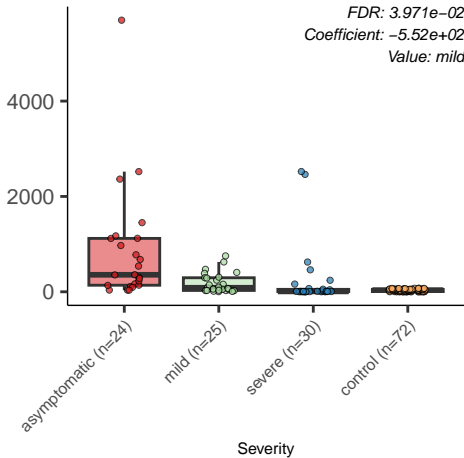
Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__P

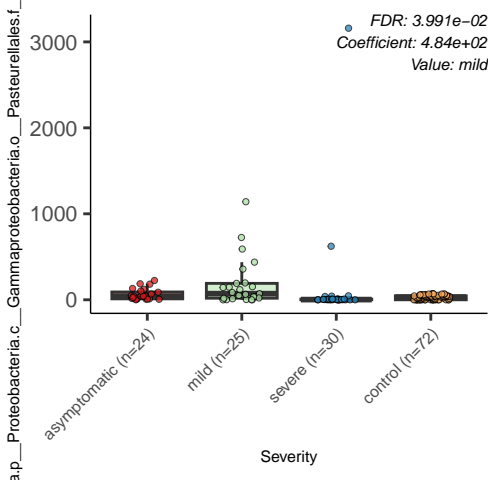


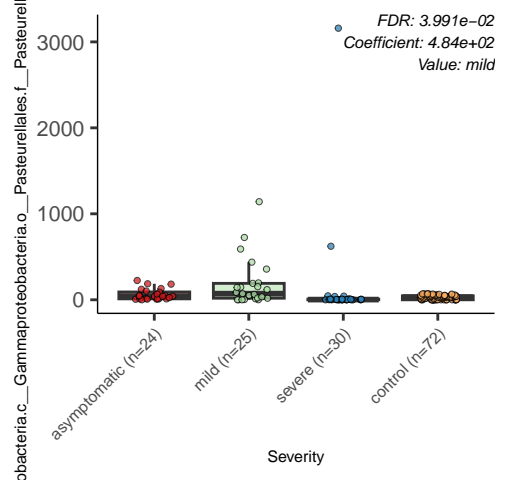


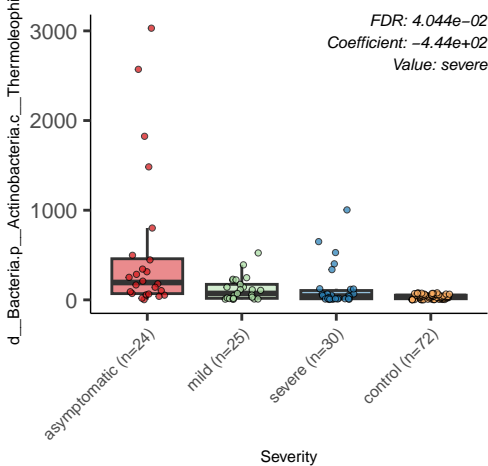
d_Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellula

FDR: $3.971e-02$
Coefficient: $-5.52e+02$
Value: mild

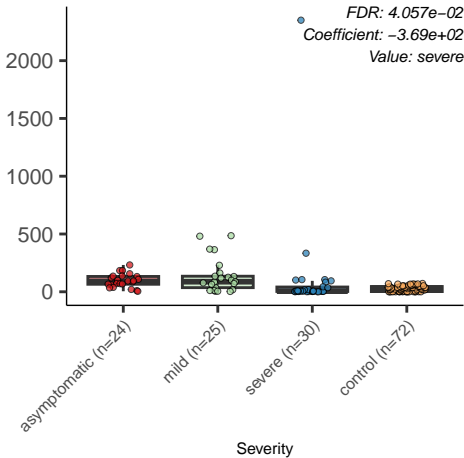


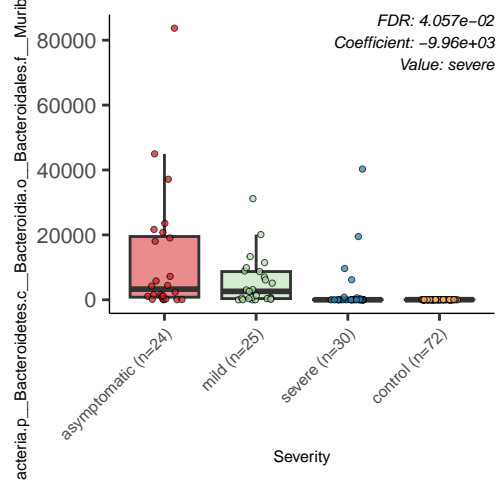


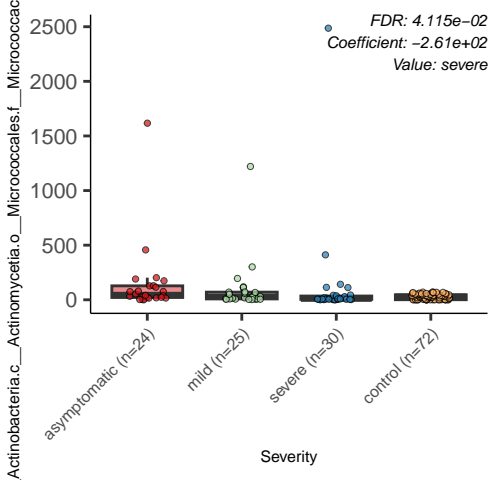


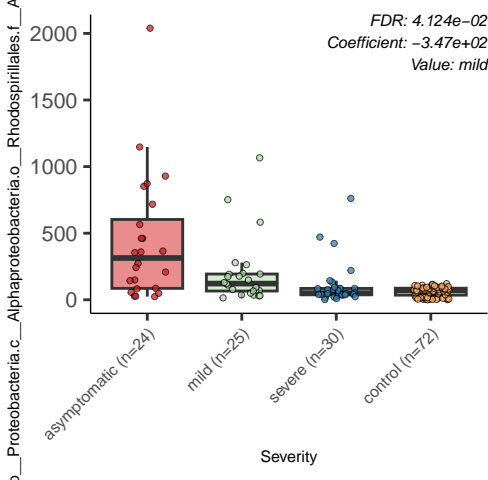


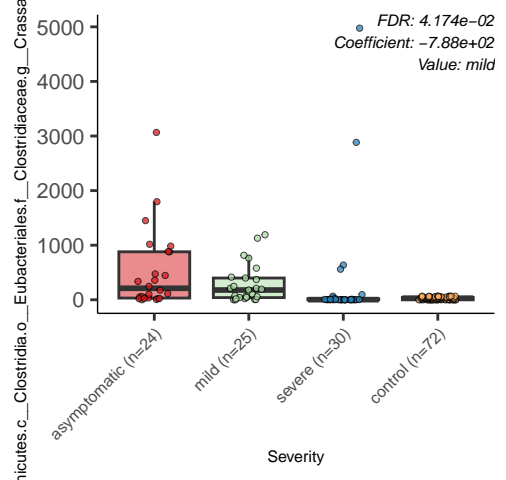
ria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobactera



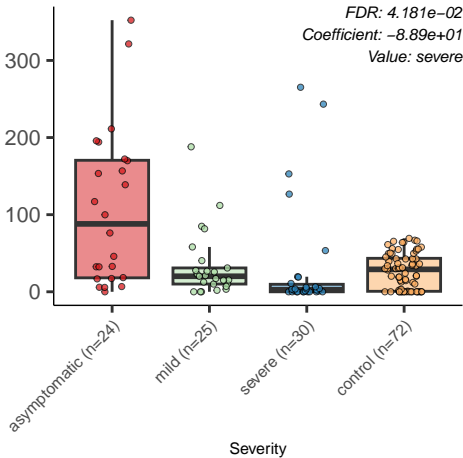




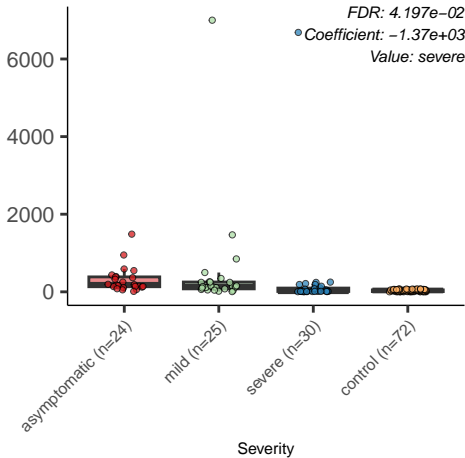




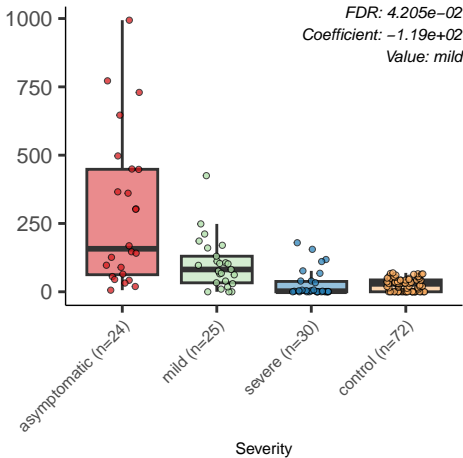
ria.p__Firmicutes.c__Erysipelotrichia.o__Erysipelotrichales.f__Erys



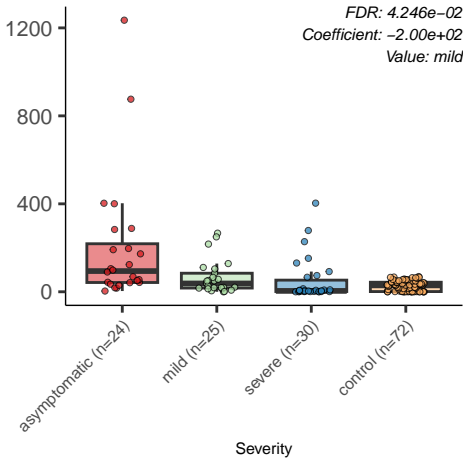
acteria.p__Proteobacteria.c__Gammaproteobacteria.o__Aeromona

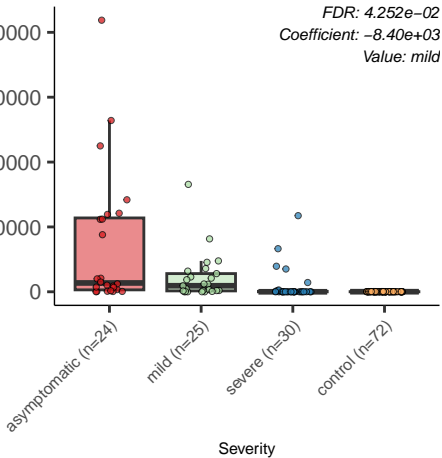


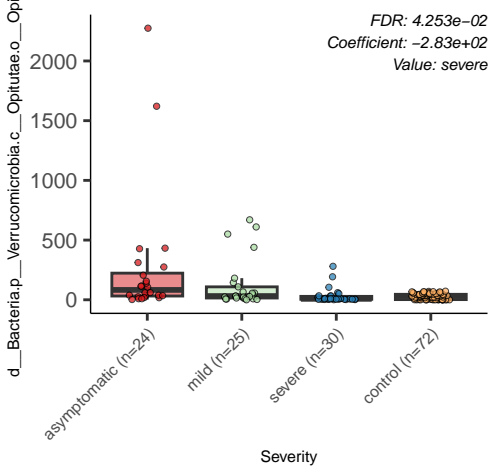
nicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Strep



Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Alicyclobacillao

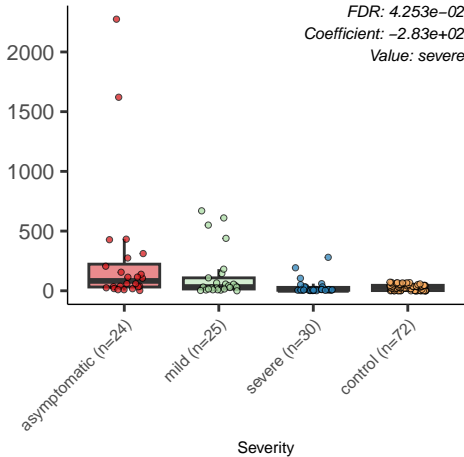


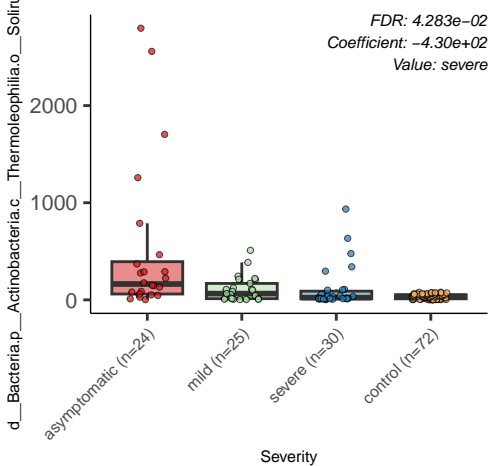




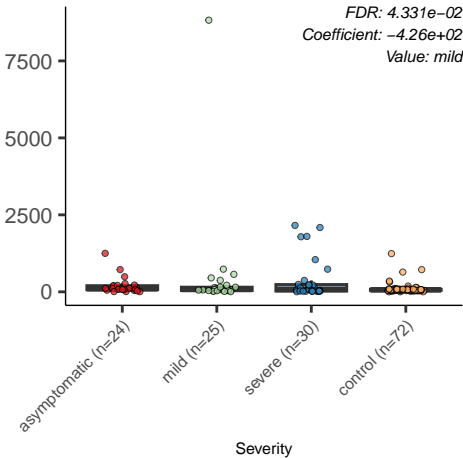
d_Bacteria.p_Verrucomicrobia.c_Opitutae.o_Opitutales.t

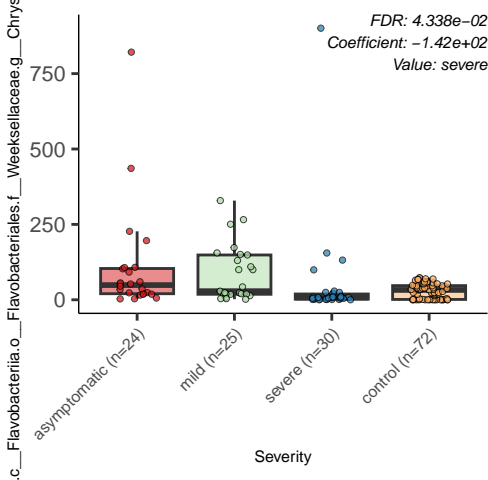
FDR: $4.253e-02$
Coefficient: $-2.83e+02$
Value: severe



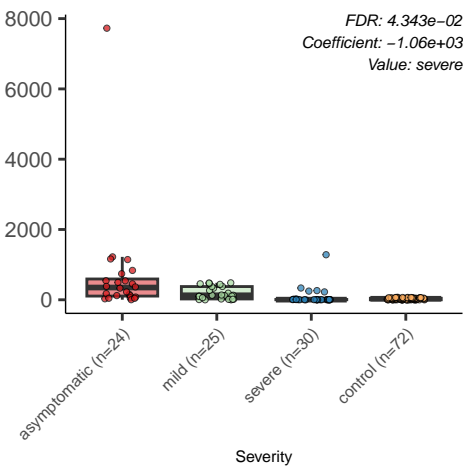


irmicutes.c__Tissierellia.o__Tissierellales.f__Peptoniphilaceae.g__A

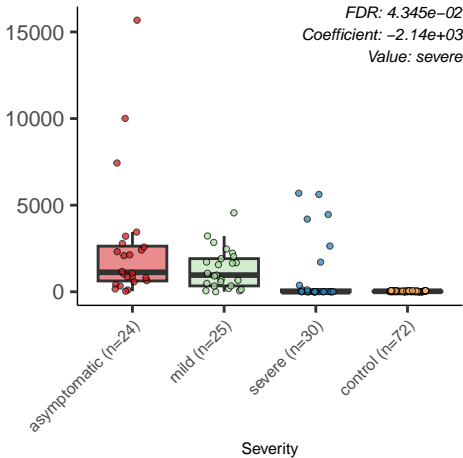


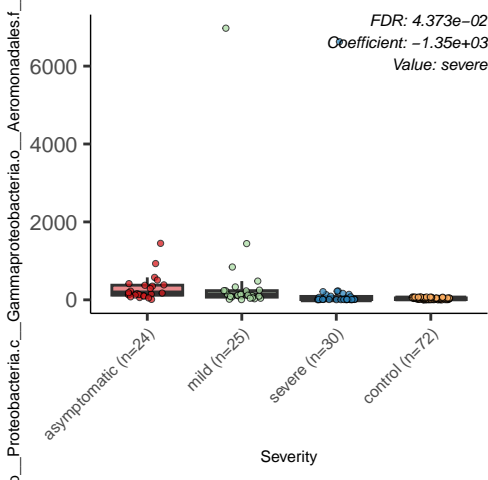


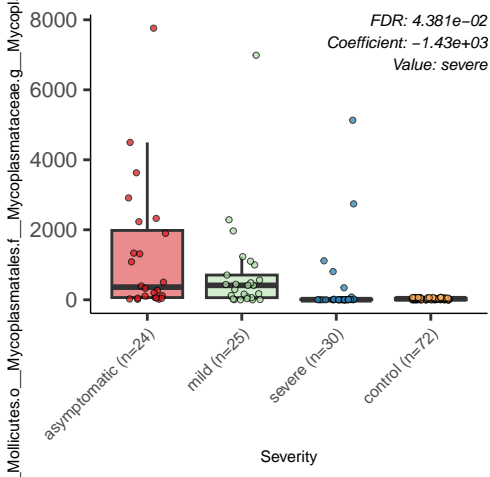
Actinomyces

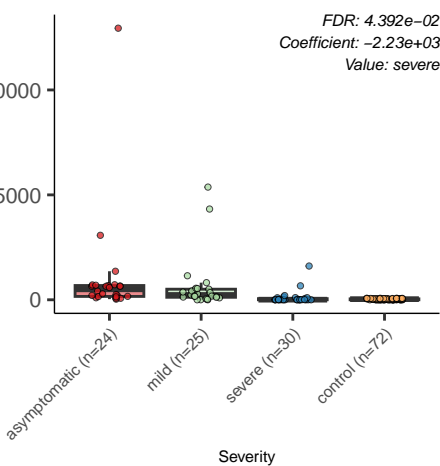


Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachno

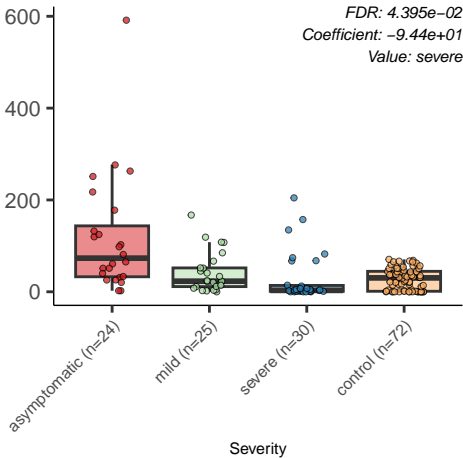


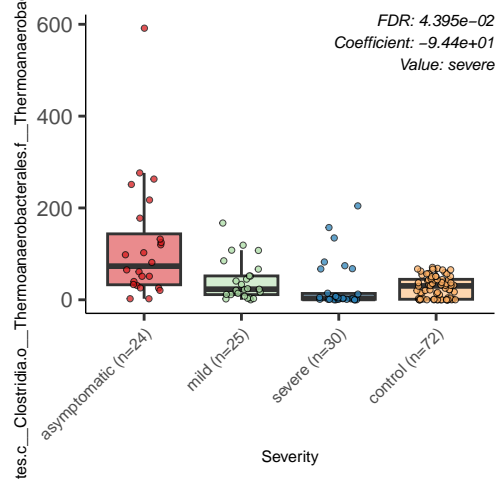


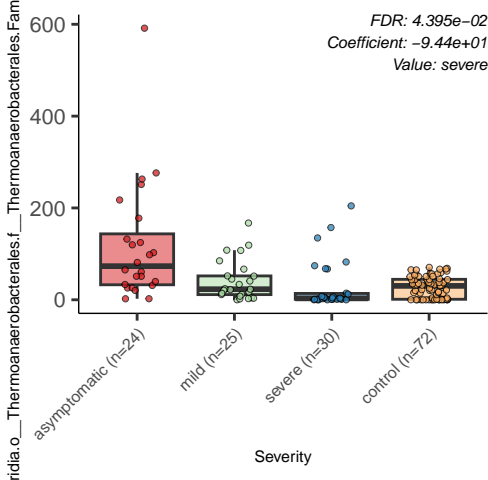




irmicutes.c__Clostridia.o__Thermoanaerobacterales.f__Thermoana







Proteobacteria.c__Epsilonproteobacteria.o__Campylobacter

FDR: $4.399\text{e-}02$
Coefficient: $-7.07\text{e}+02$
Value: mild

15000

10000

5000

0

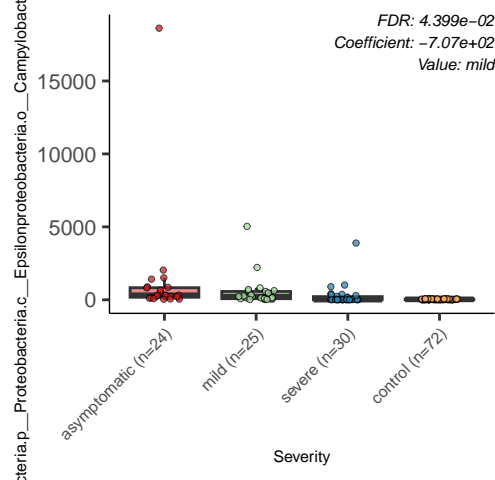
asymptomatic (n=24)

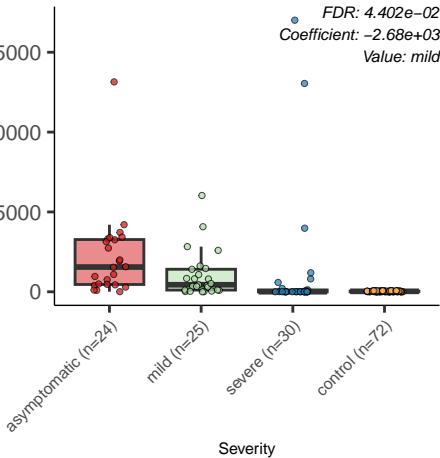
mild (n=25)

severe (n=30)

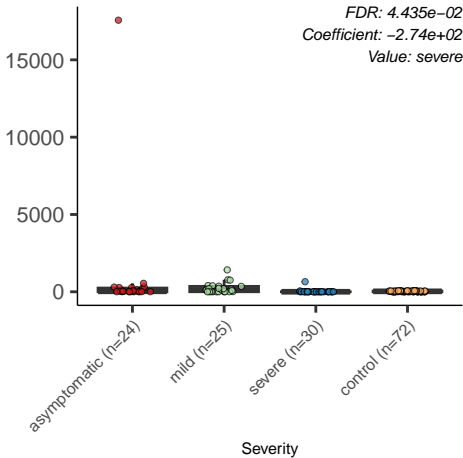
control (n=72)

Severity

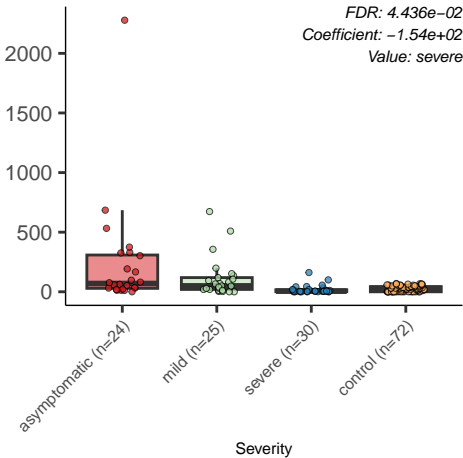


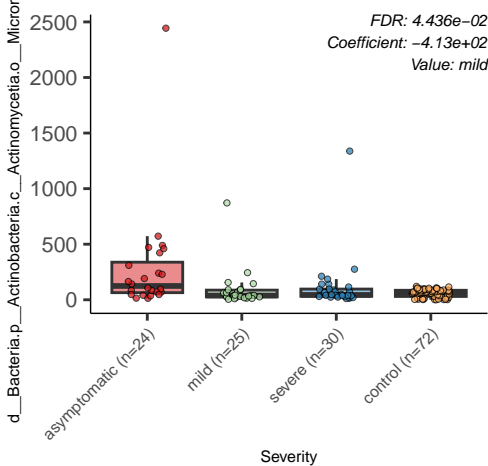


rochaetes.c__Spirochaetia.o__Spirochaetales.f__Treponemataceae.g

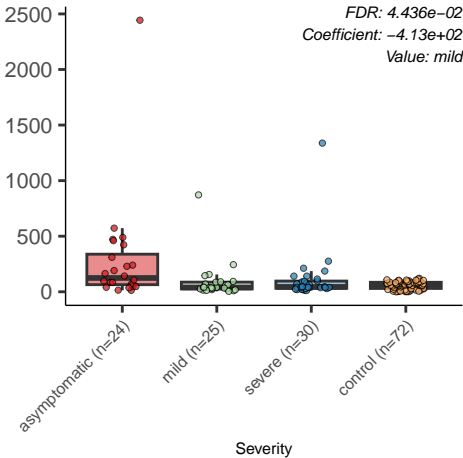


Bacteria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales

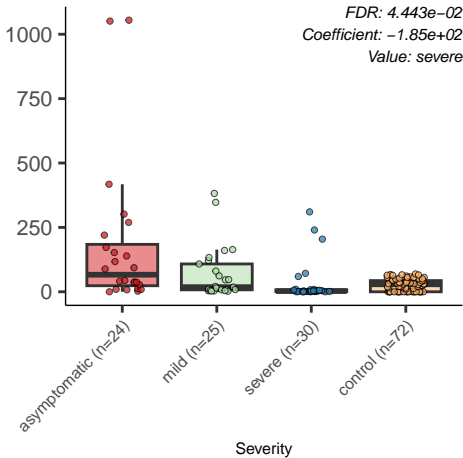


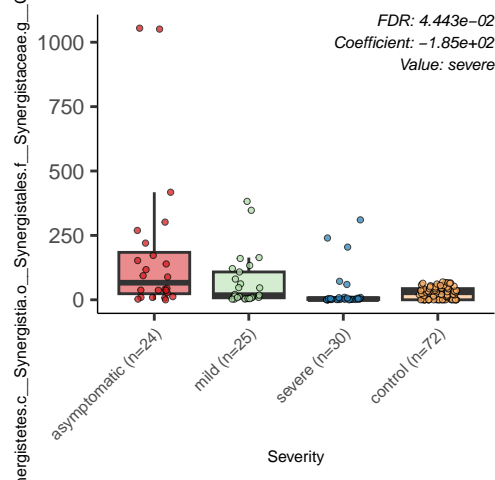


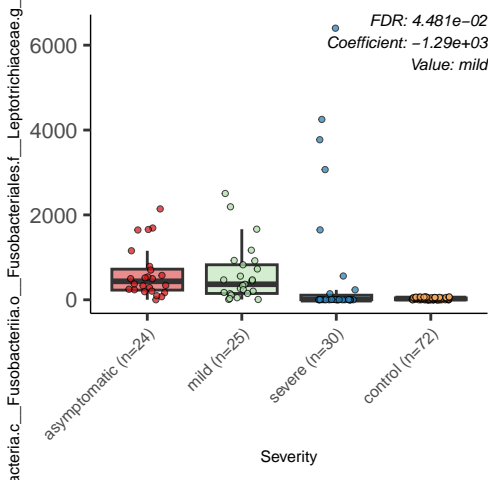
bacteria.p_Actinobacteria.c_Actinomycetia.o_Micromonosporales

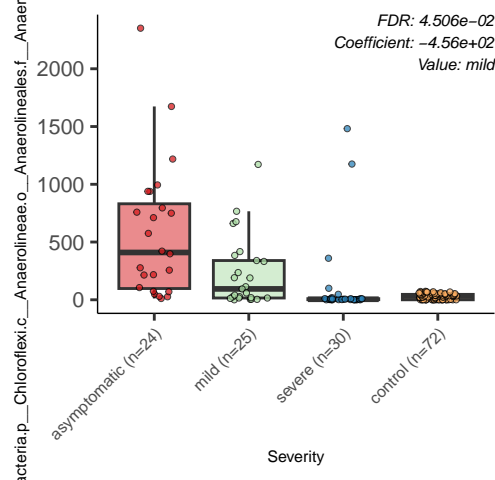


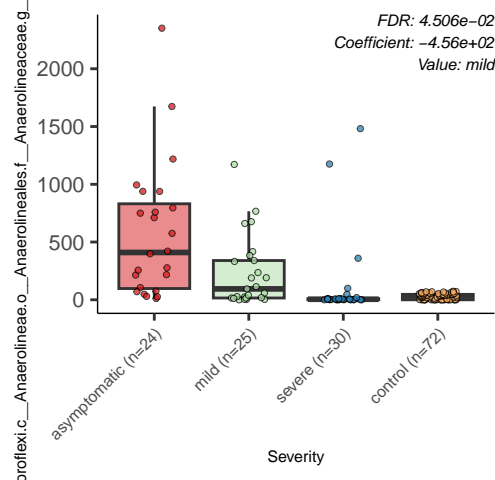
bacteria.p__Synergistetes.c__Synergistia.o__Synergistales.f__Synergistaceae



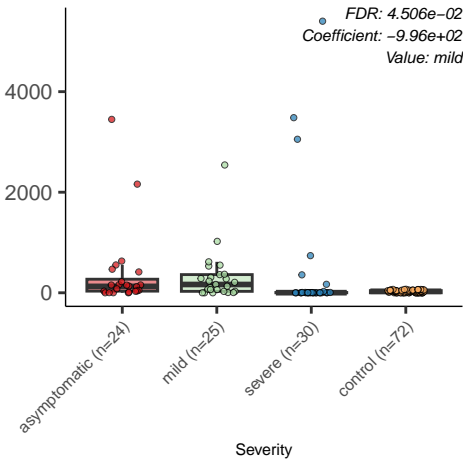




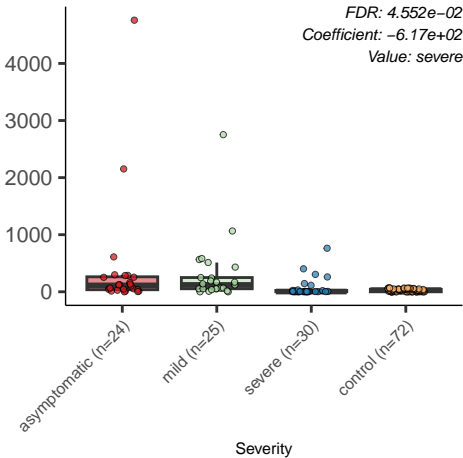




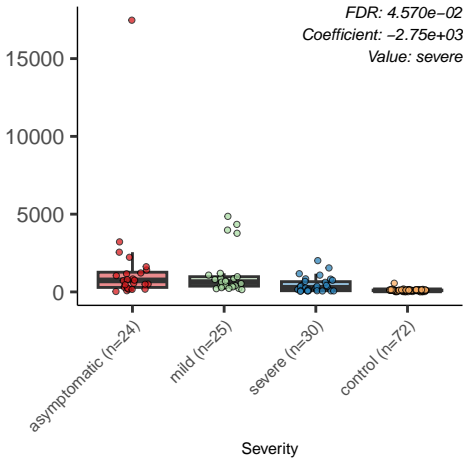
Firmicutes.c__Clostridia.o__Eubacteriales.f__Clostridiaceae.g__C



Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnosp



.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f__B



d_Bacteria.p_Bacteroidetes.c_Chitinophagii

FDR: $4.575e-02$
Coefficient: $-9.14e+02$
Value: mild

4000
2000
0

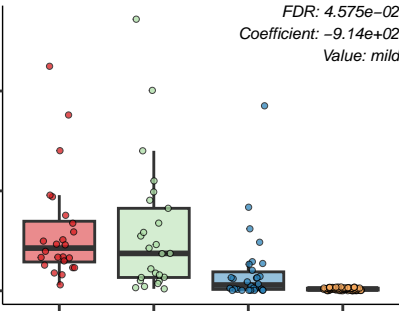
asymptomatic (n=24)

mild (n=25)

severe (n=30)

control (n=72)

Severity



d_Bacteria.p_Bacteroidetes.c_Chitinophagia.o_Chitin

FDR: $4.575e-02$
Coefficient: $-9.14e+02$
Value: mild

4000
2000
0

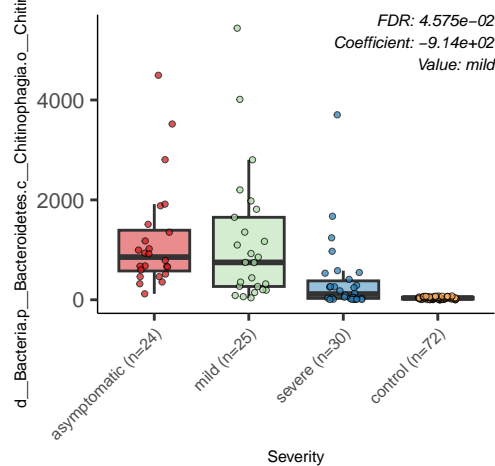
asymptomatic (n=24)

mild (n=25)

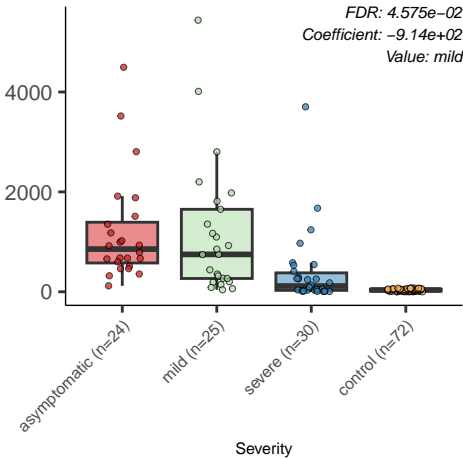
severe (n=30)

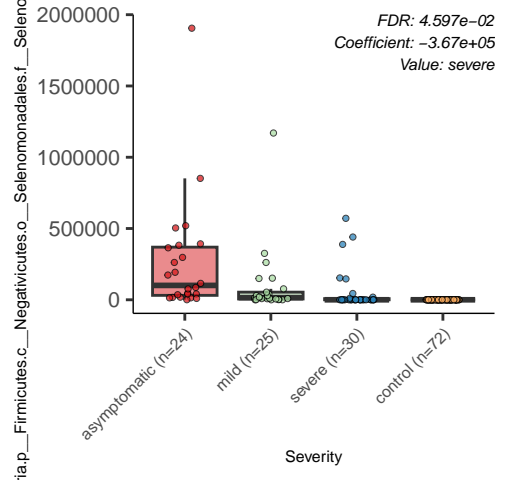
control (n=72)

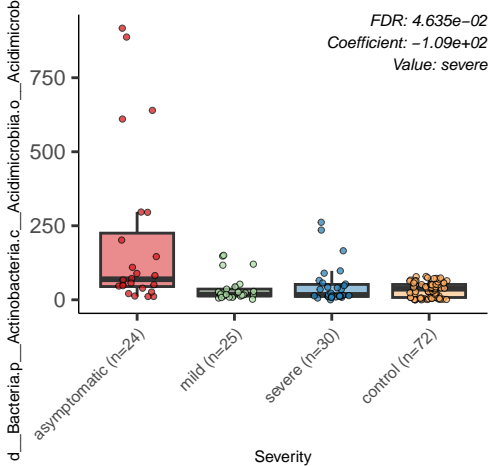
Severity

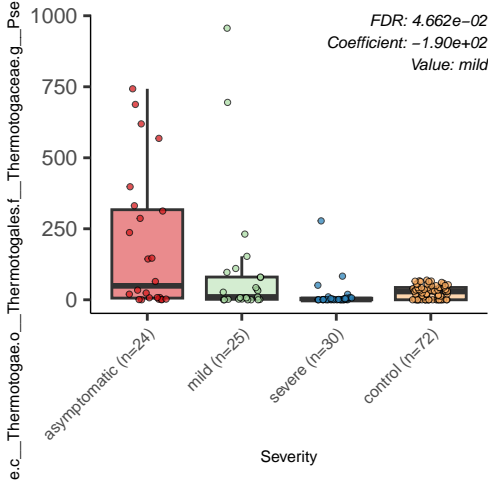


4_Bacteria.p_Bacteroidetes.c_Chitinophagia.o_Chitinophagales

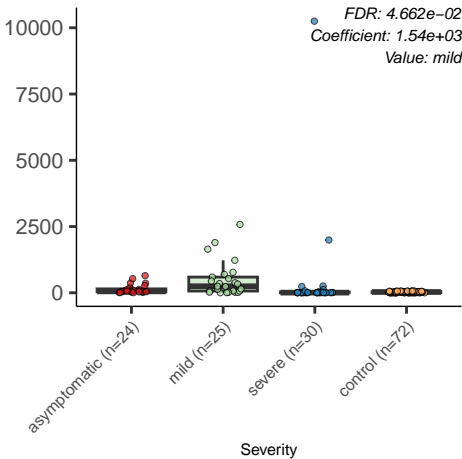






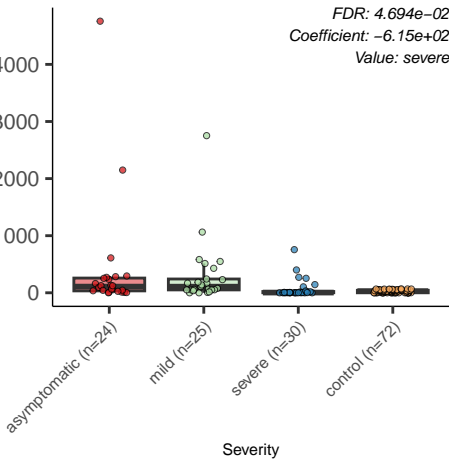


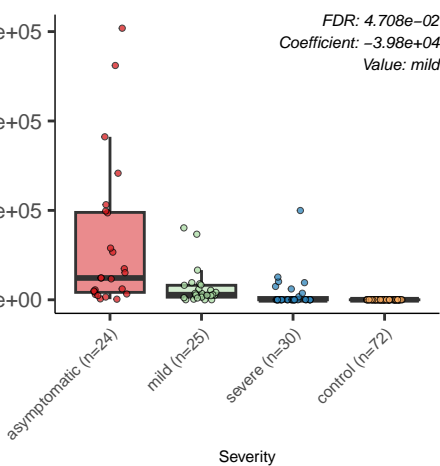
c__Gammaproteobacteria.o__Enterobacterales.f__Bruguierivoraca

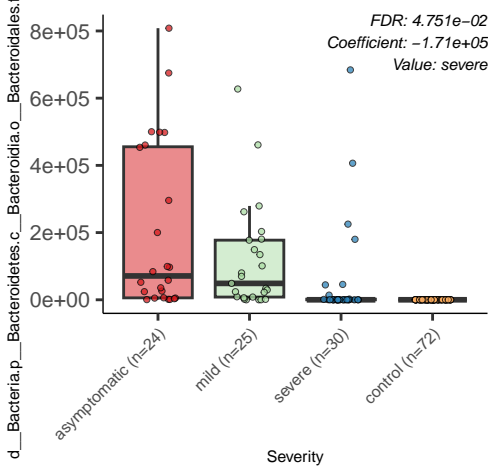


Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g

FDR: 4.694e-02
Coefficient: -6.15e+02
Value: severe

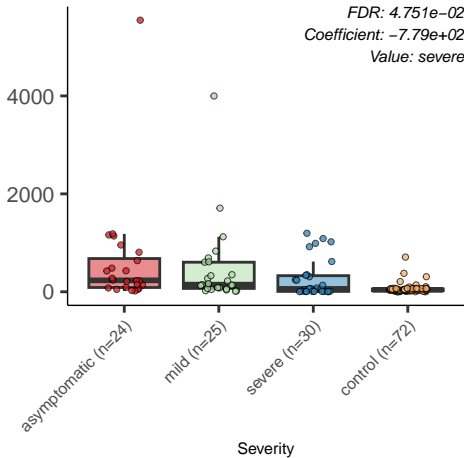




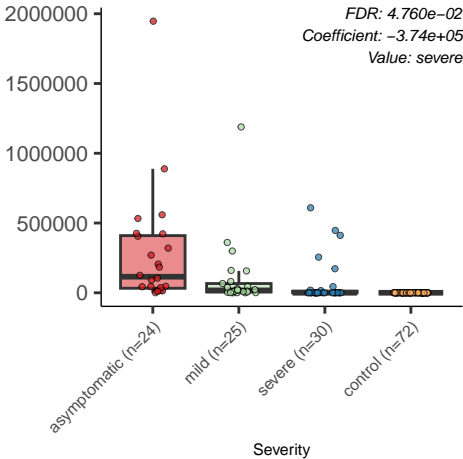


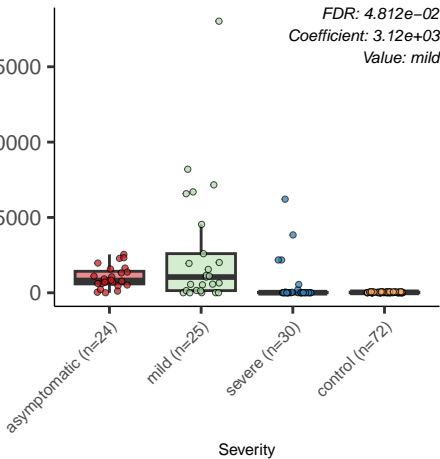
utes.c__Tissierellia.o__Tissierellales.f__Peptoniphilaceae.g__Anaer

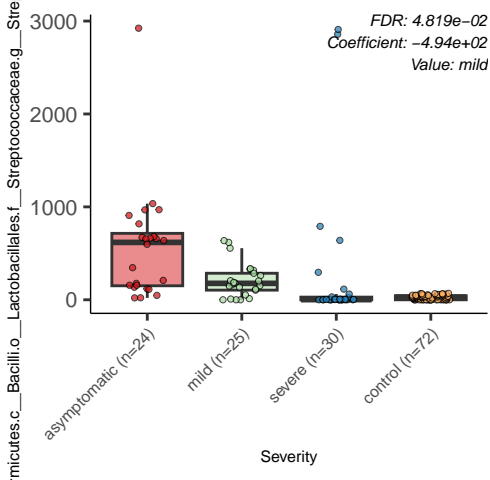
FDR: $4.751e-02$
Coefficient: $-7.79e+02$
Value: severe

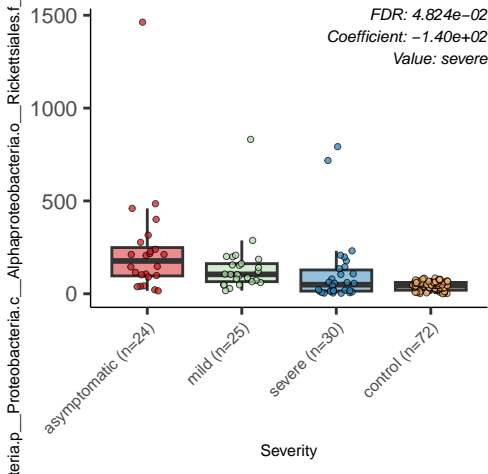


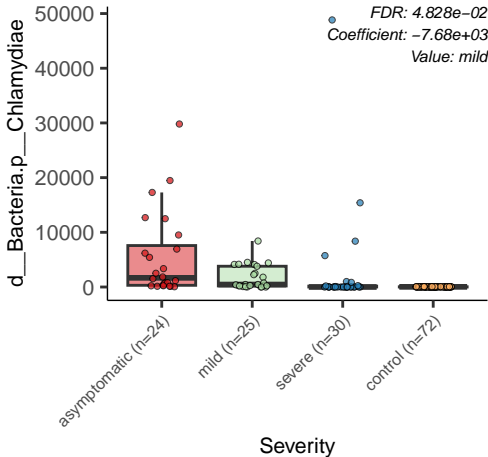
l_Bacteria.p_Firmicutes.c_Negativicutes.o__Selenomonadales.f

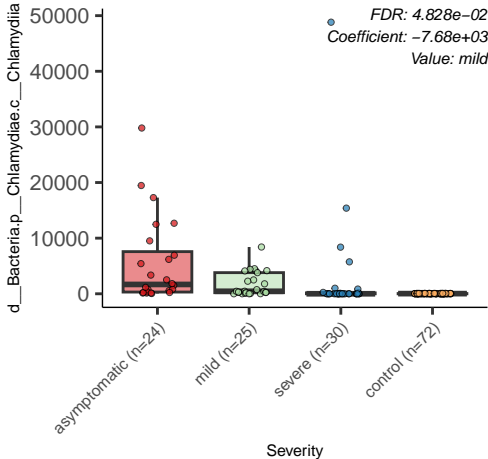


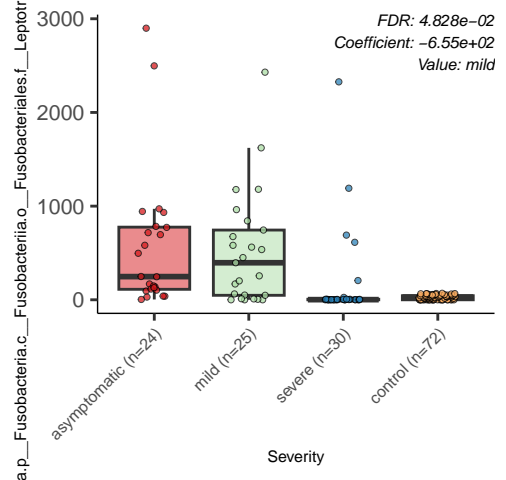


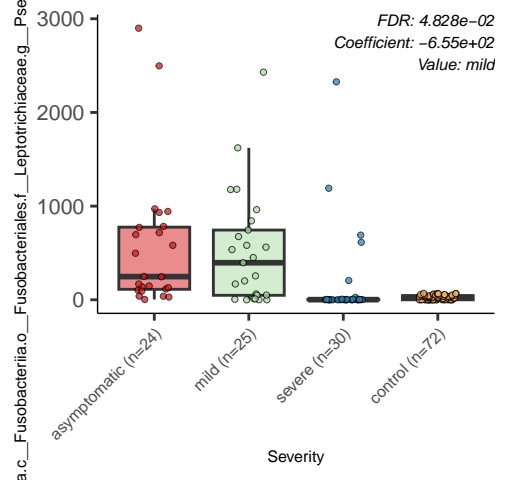


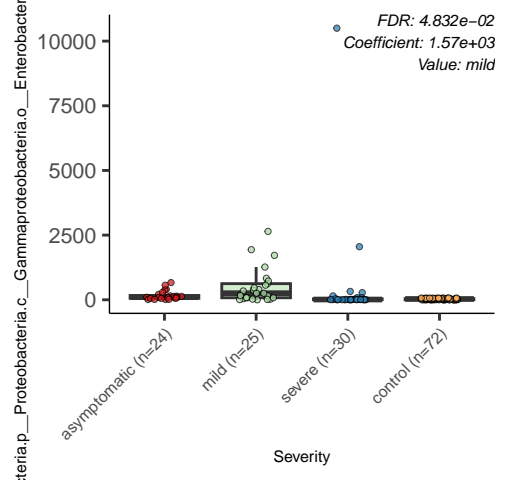


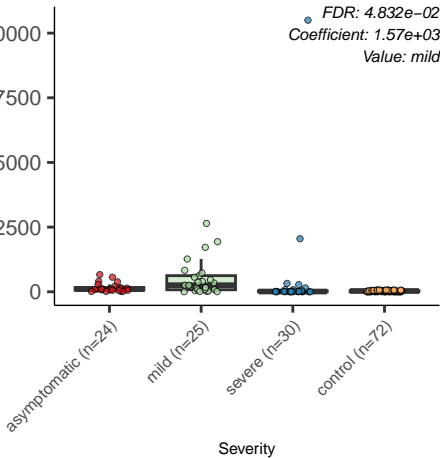


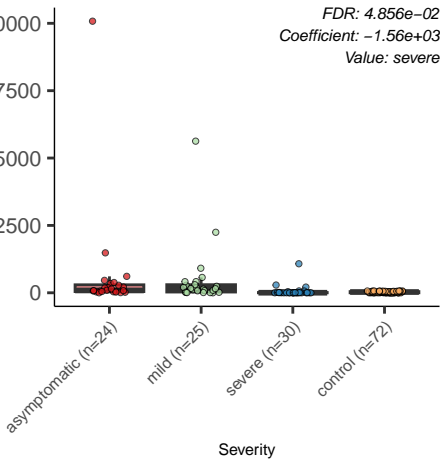


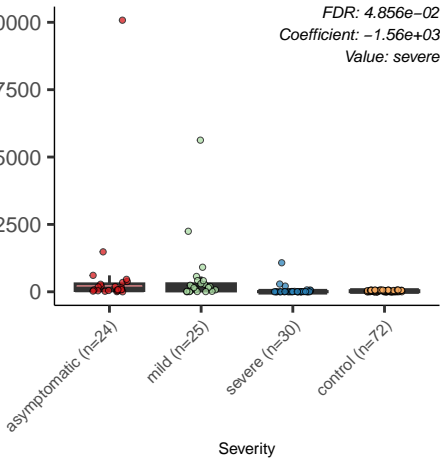




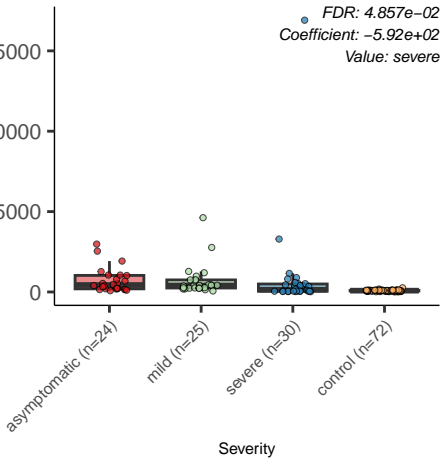


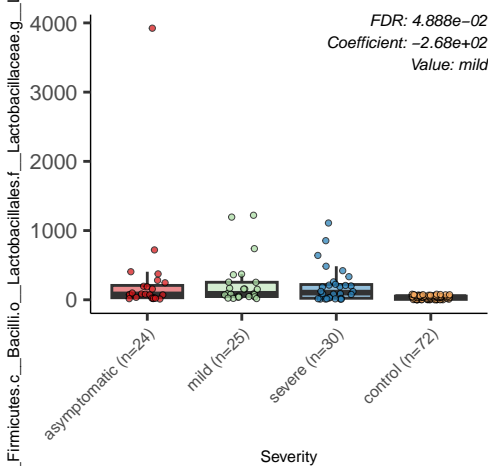




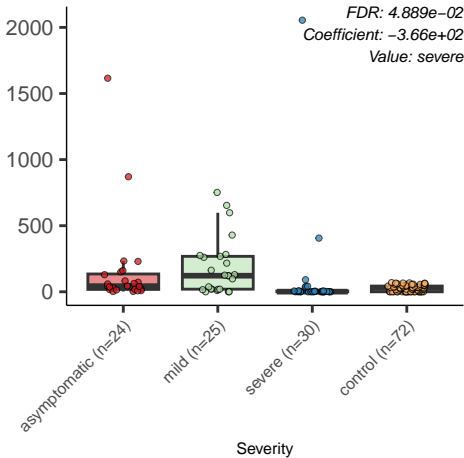


Firmicutes.c_Clostridia.o_Eubacteriales.f_Clostridiaceae.g_C

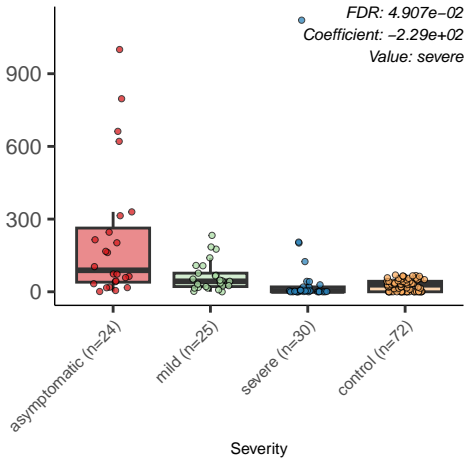


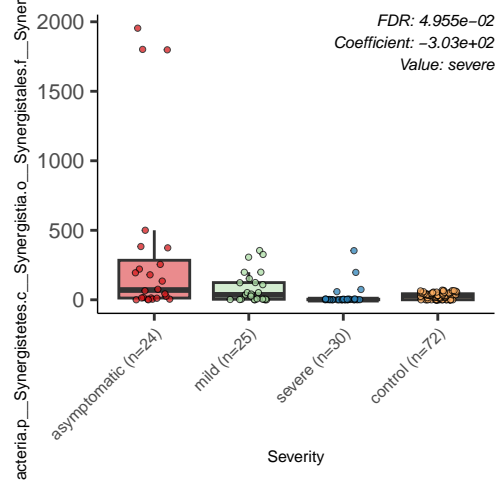


eria.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurellaceae

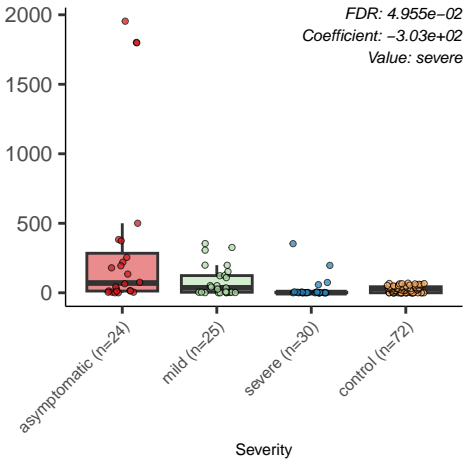


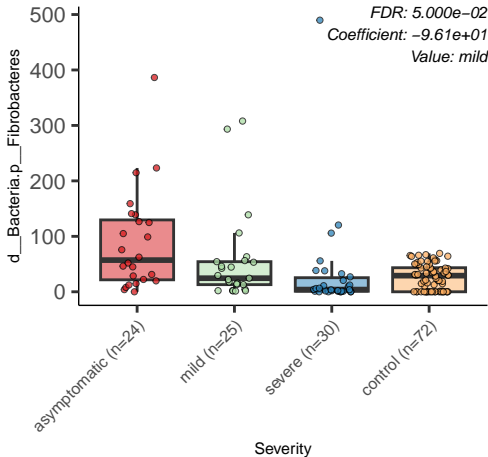
rmicutes.c__Bacilli.o__Lactobacillales.f__Lactobacillaceae.g__Lact

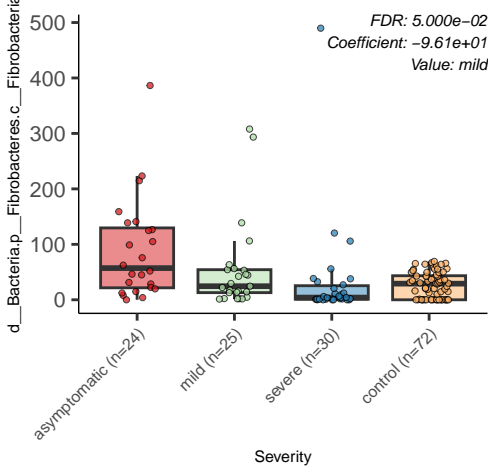


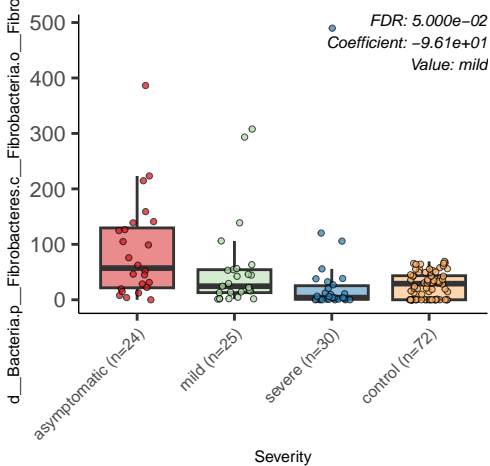


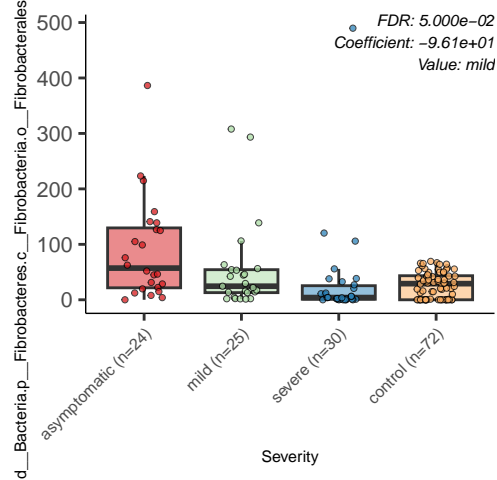
Synergistetes.c__Synergistia.o__Synergistales.f__Synergistaceae.g

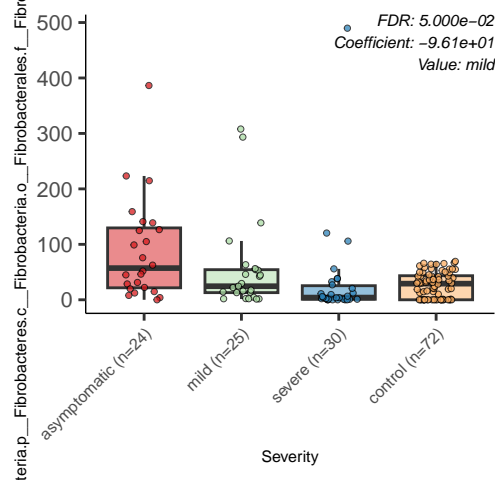


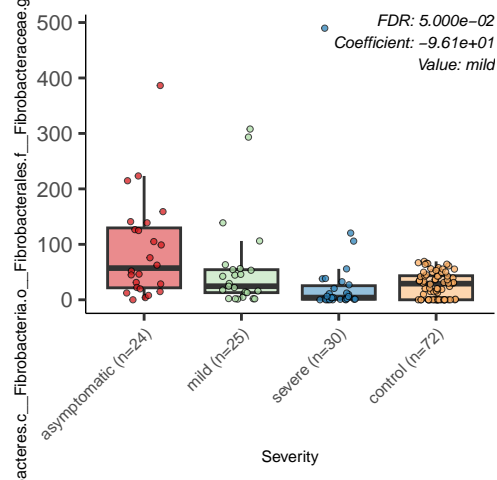


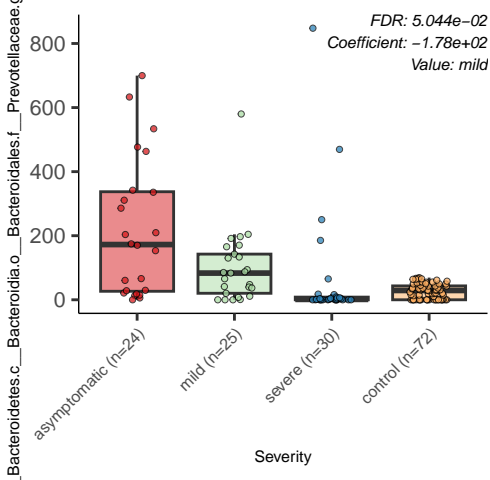


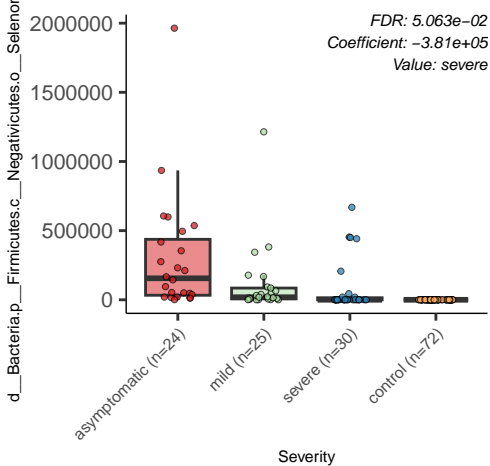












d__Bacteria.p_Actinobacteria.c_Acidimicrobi

FDR: $5.120e-02$
Coefficient: $-2.02e+02$
Value: severe

1000
500
0

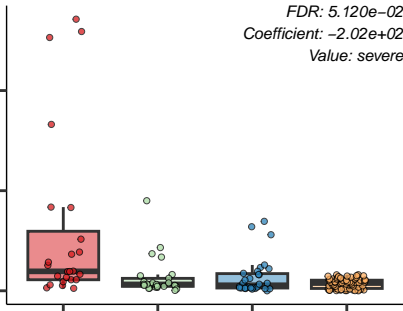
asymptomatic (n=24)

mild (n=25)

severe (n=30)

control (n=72)

Severity



d_Bacteria.p_Actinobacteria.c_Acidimicrobiia.o_Acid

1000

500

0

FDR: 5.120e-02

Coefficient: -2.02e+02

Value: severe

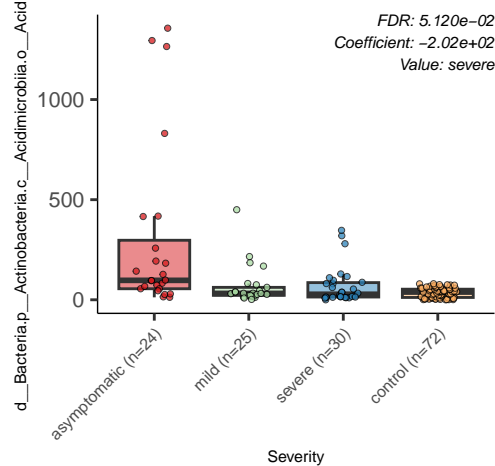
asymptomatic (n=24)

mild (n=25)

severe (n=30)

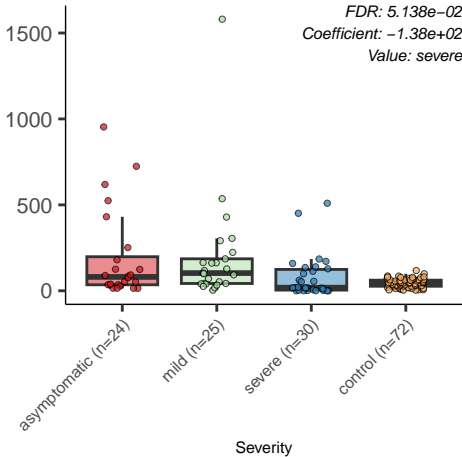
control (n=72)

Severity

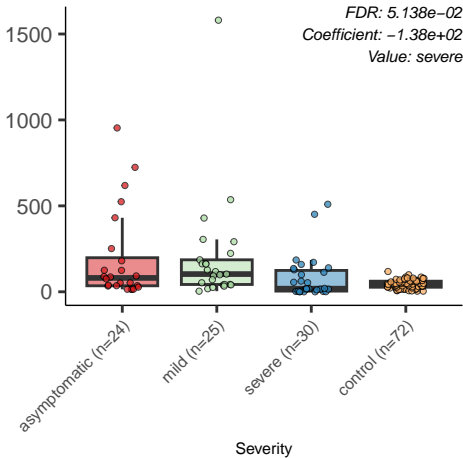


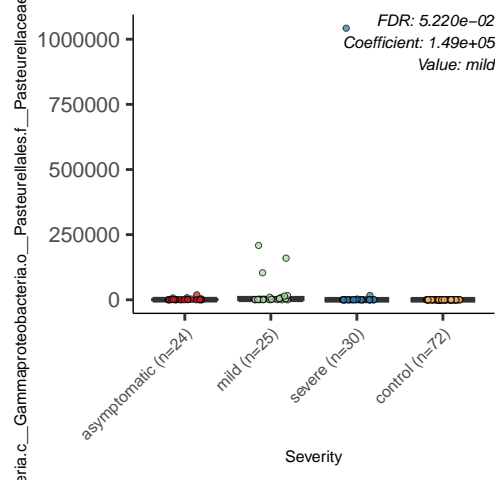
Flavobacteriales.f_Fla
Bacteroidetes.c_Flavobacteriia.o_Flavobacteriales.f_Fla
Bacteroidetes.c_Flavobacteriia.o_Flavobacteriales.f_Fla

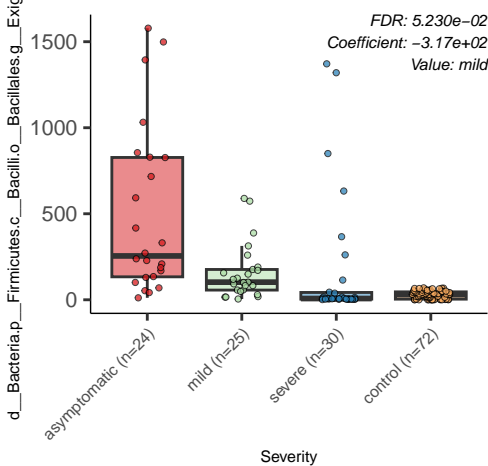
FDR: 5.138e-02
Coefficient: -1.38e+02
Value: severe

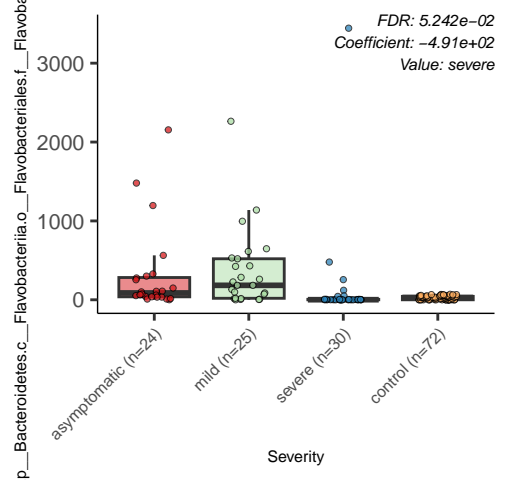


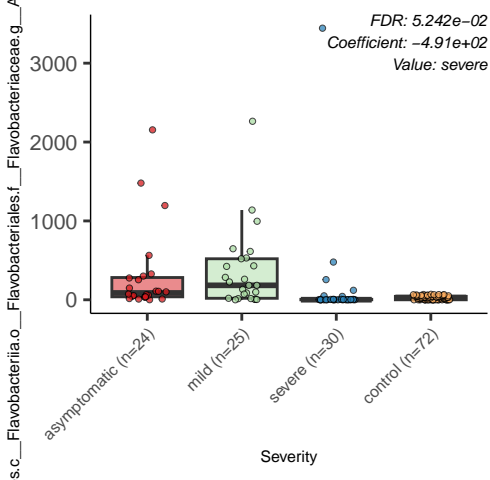
Bacteroidetes.c_Flavobacteriia.o_Flavobacteriales.f_Flavobacter

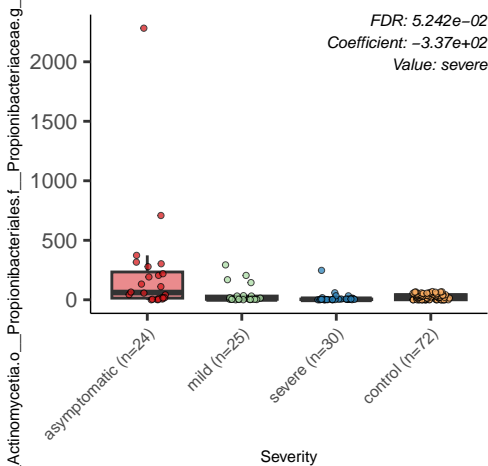






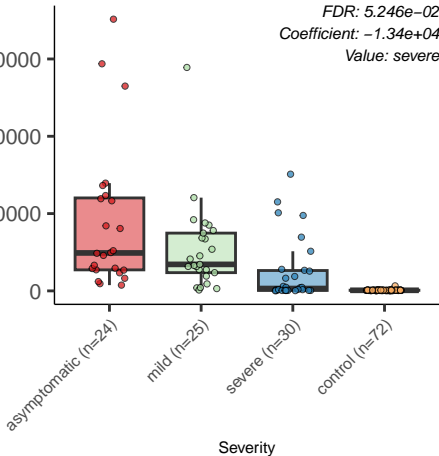


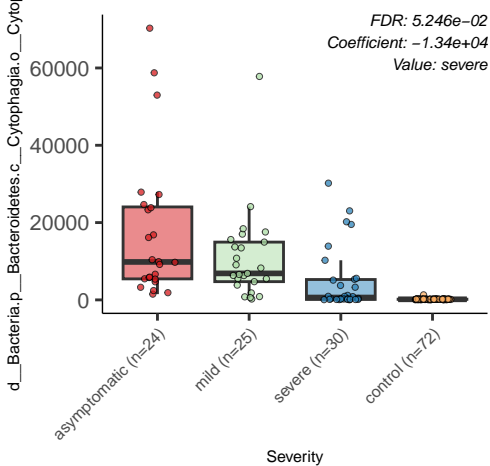




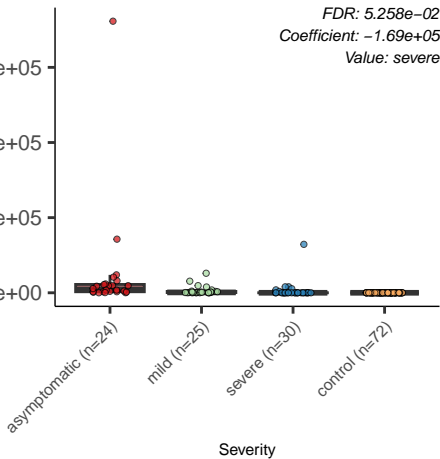
d_Bacteria.p_Bacteroidetes.c_Cytophagia

FDR: $5.246e-02$
Coefficient: $-1.34e+04$
Value: severe

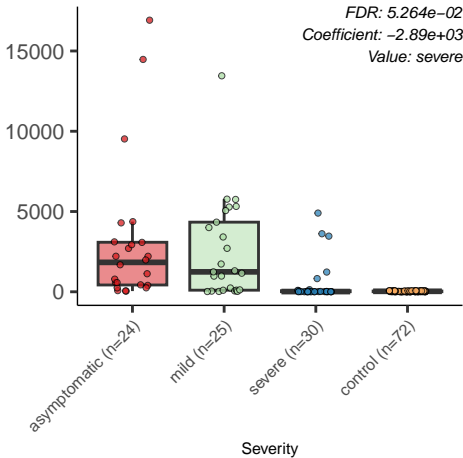


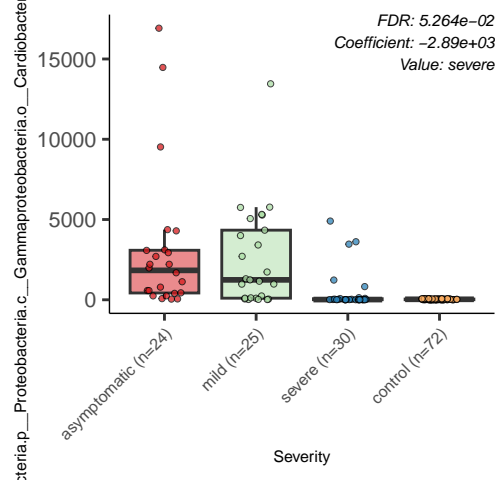


tes.c__Negativicutes.o__Selenomonadales.f__Selenomonadaceae.g__

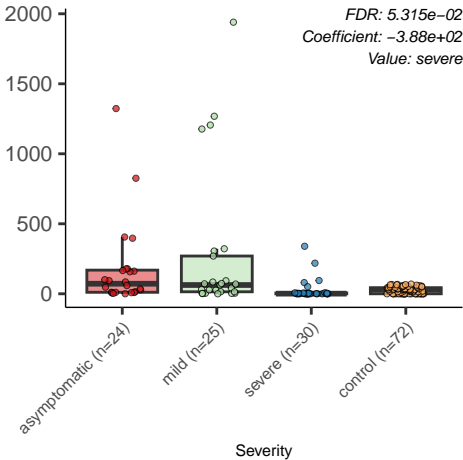


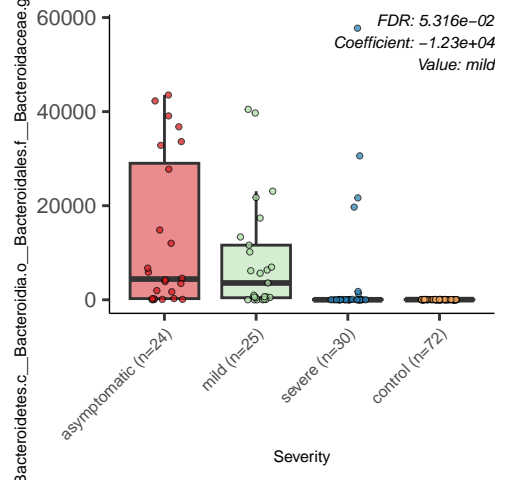
d_Bacteria.p_Proteobacteria.c_Gammaproteobacteria.o_o





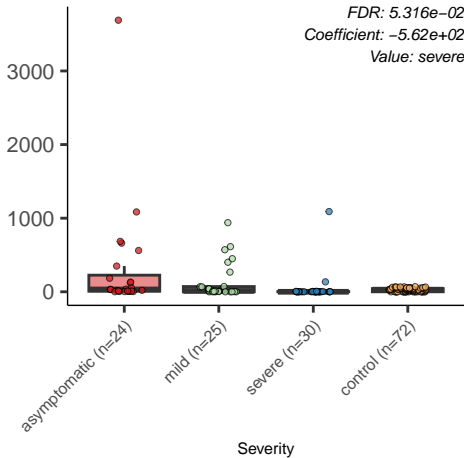
teobacteria.c__Betaproteobacteria.o__Neisseriales.f__Neisseriaceae

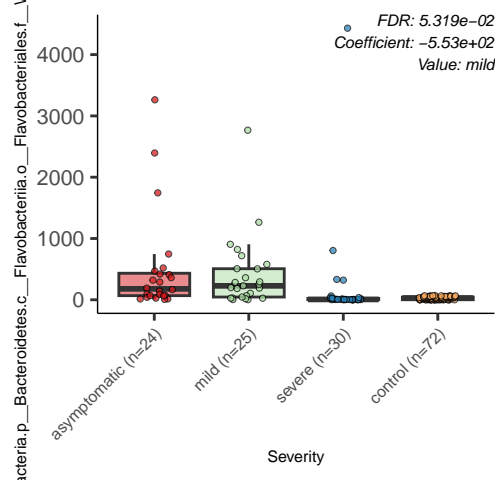




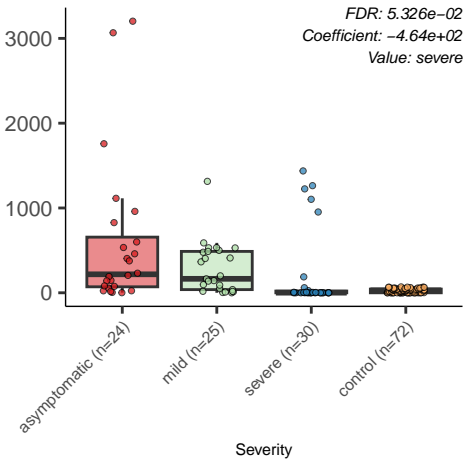
Firmicutes.c__Bacilli.o__Lactobacillales.f__Lactobacillaceae.g__La

FDR: 5.316e-02
Coefficient: -5.62e+02
Value: severe



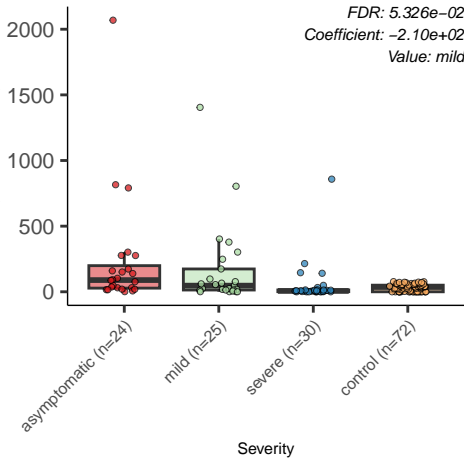


Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g

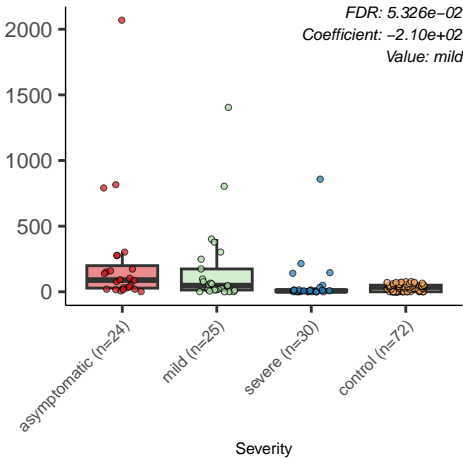


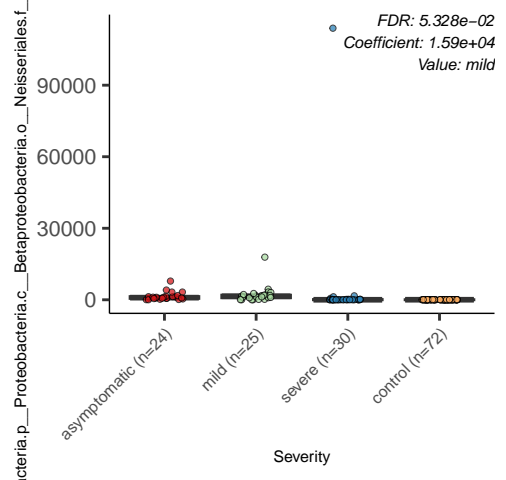
bacteria.p__Bacteroidetes.c__Cytophagia.o__Cytophagales.f__Fulv

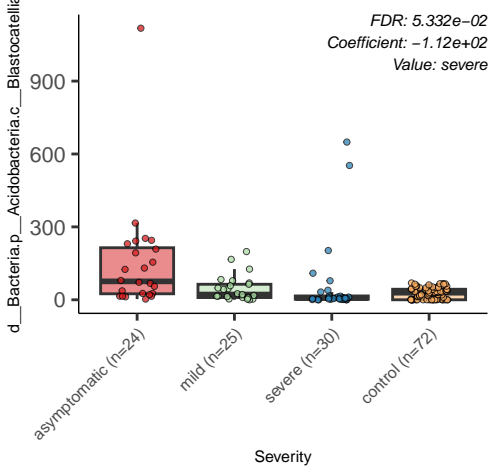
FDR: 5.326e-02
Coefficient: -2.10e+02
Value: mild

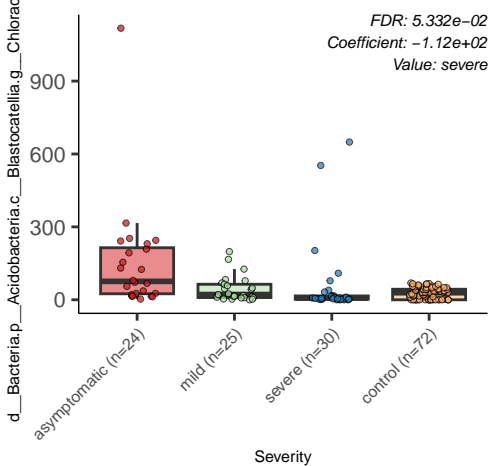


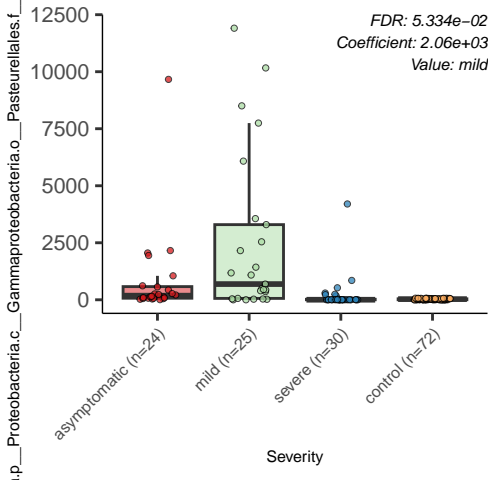
Bacteroidetes.c__Cytophagia.o__Cytophagales.f__Fulvivirgaceae.g





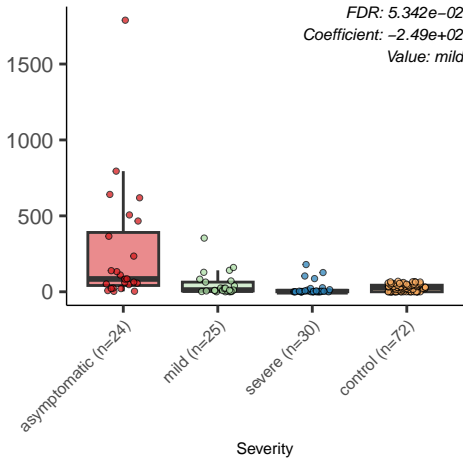


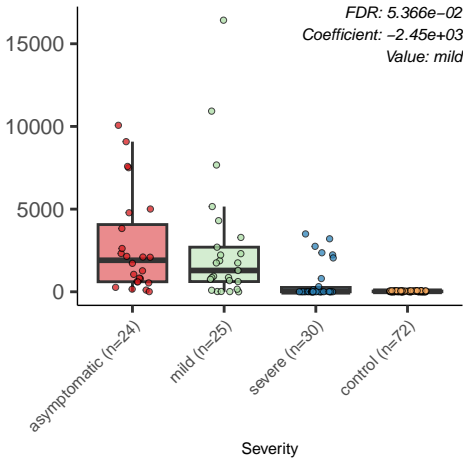


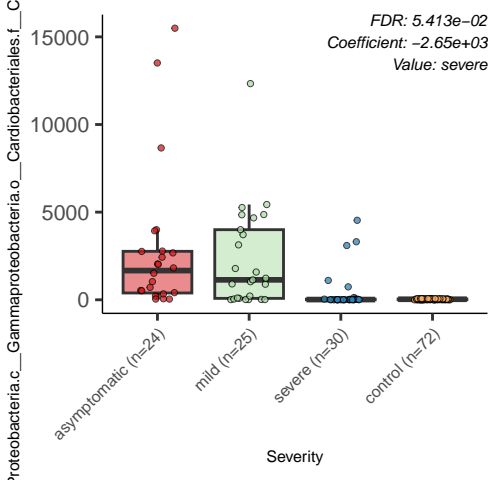


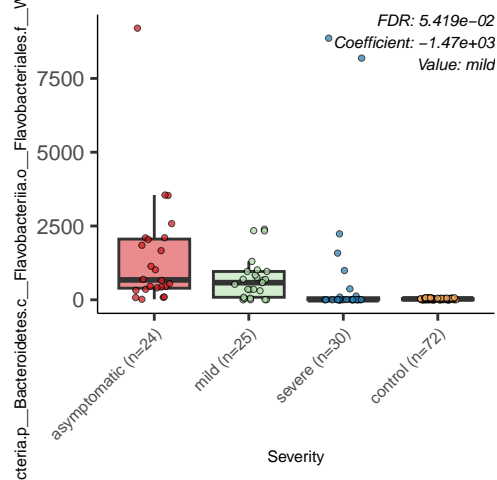
micutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Stre

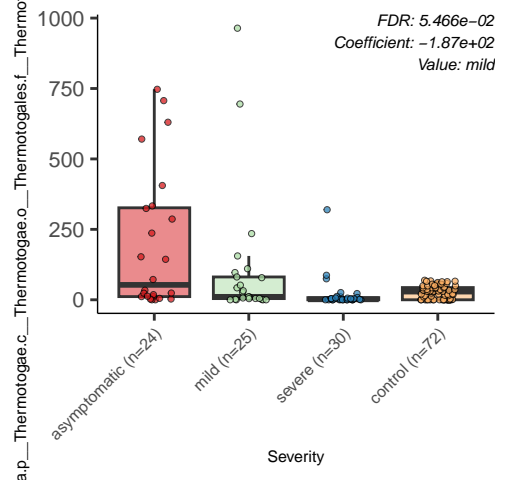
FDR: 5.342e-02
Coefficient: -2.49e+02
Value: mild

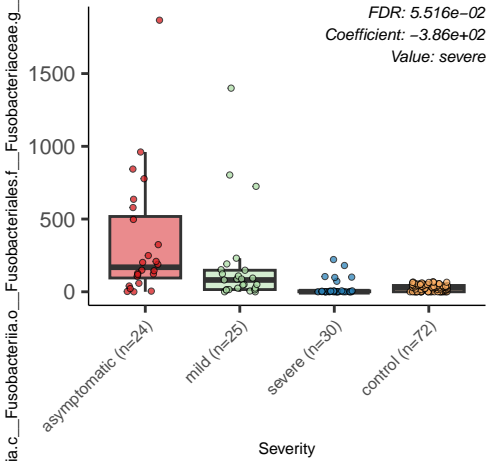




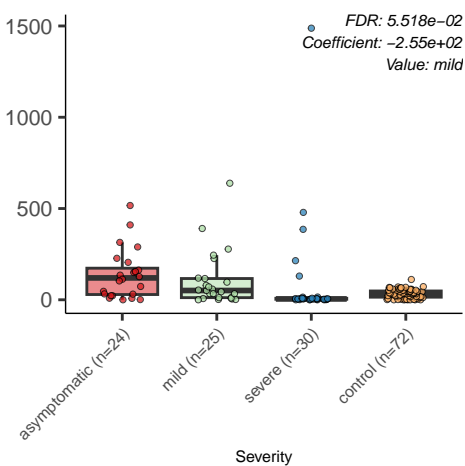


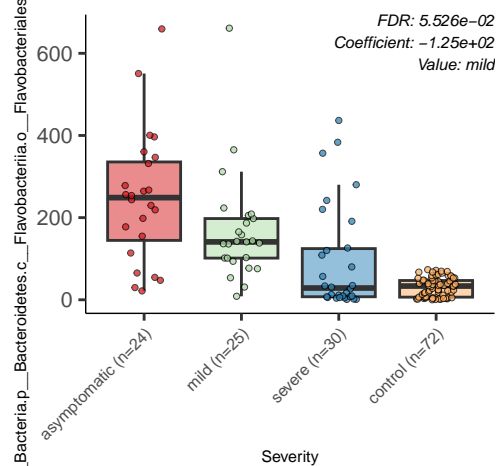




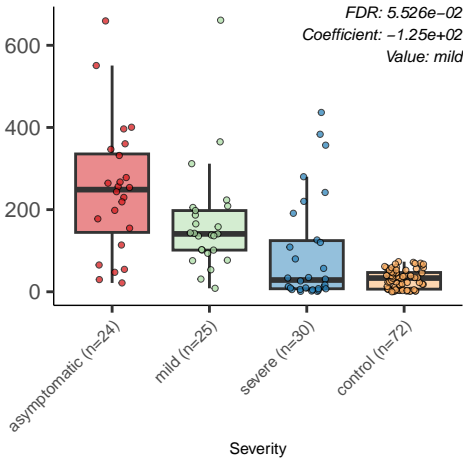


nobacteria.c_Actinomycetia.o_Actinomycetales.f_Actinomycetaceae

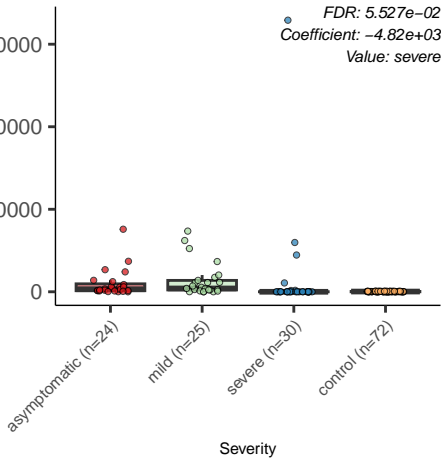


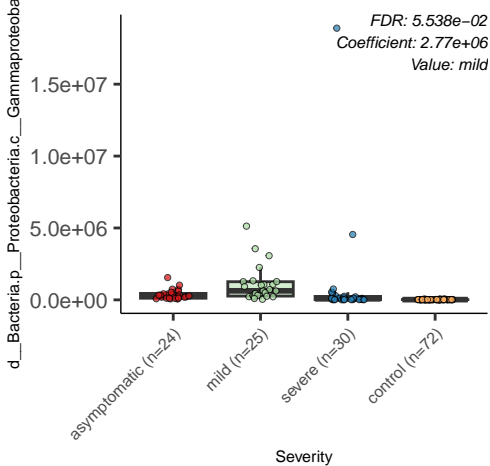


Bacteroidetes.c_Flavobacteriia.o_Flavobacteriales.g_Candidatus



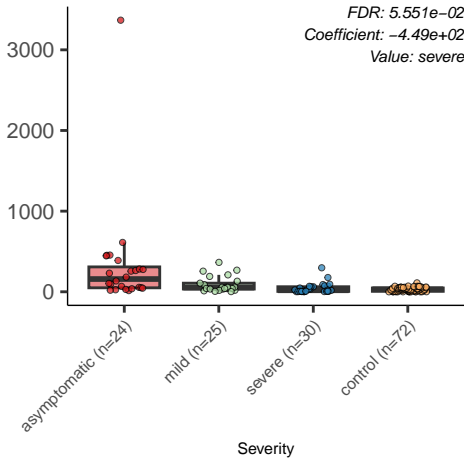
bacteria.c__Betaproteobacteria.o__Neisseriales.f__Neisseriaceae.g

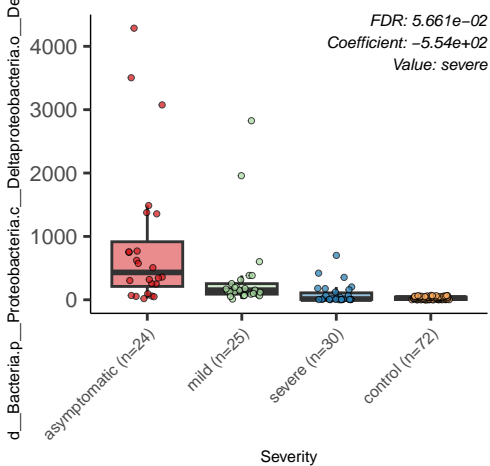


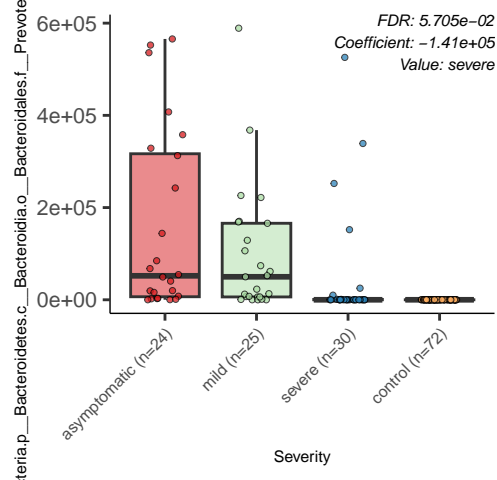


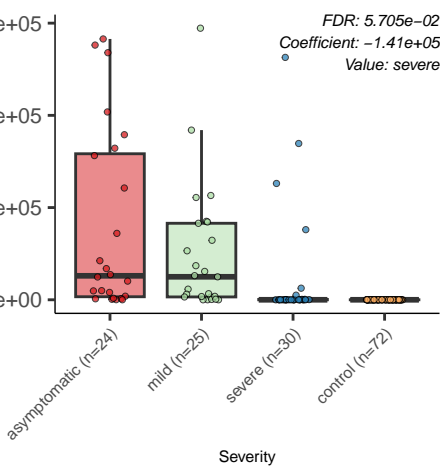
acteria.p__Verrucomicrobia.c__Verrucomicrobiae.o__Verrucomicrobia

FDR: 5.551e-02
Coefficient: -4.49e+02
Value: severe



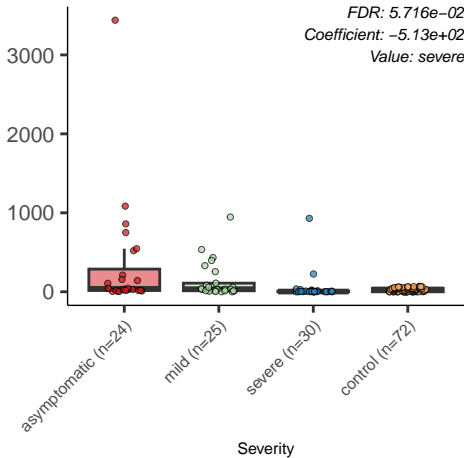


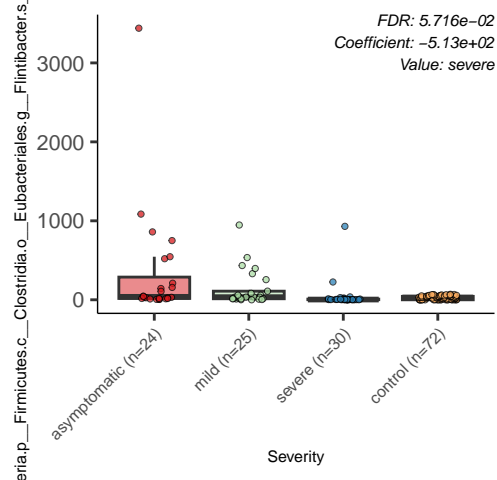




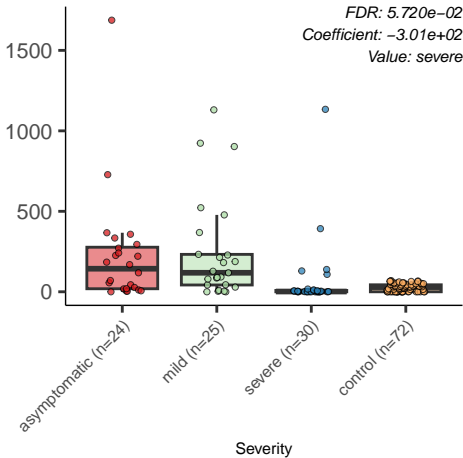
d_Bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.g

FDR: 5.716e-02
Coefficient: -5.13e+02
Value: severe

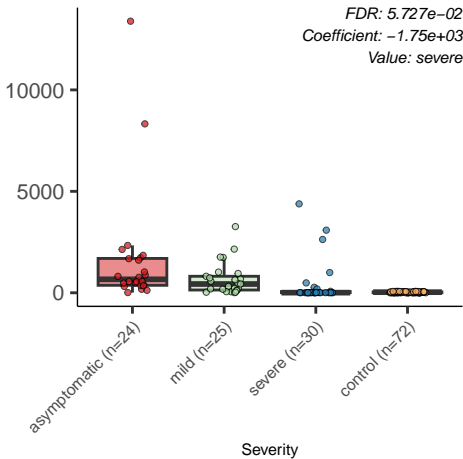


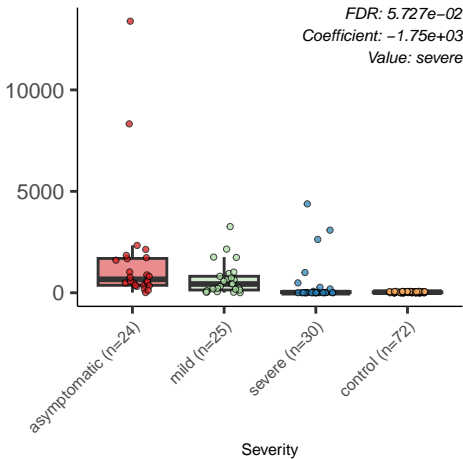


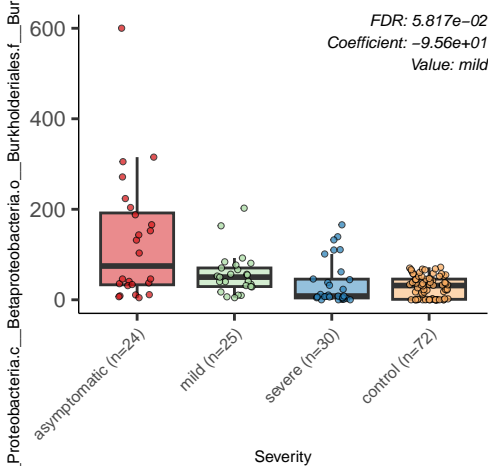
Acetivibrio__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__Anaer

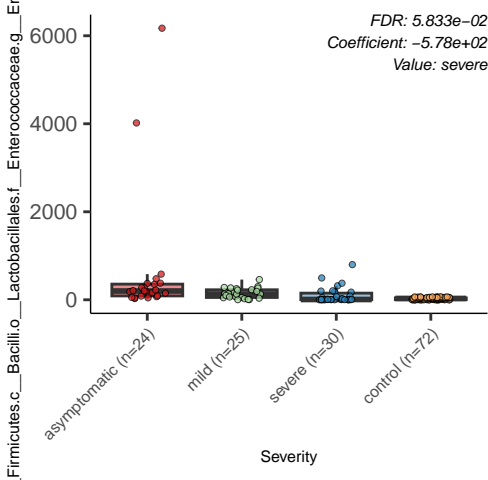


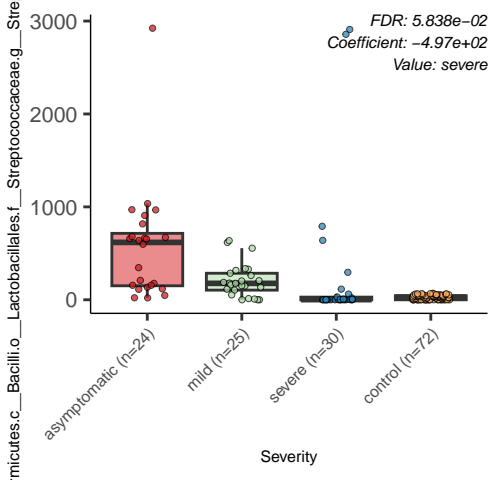
ia.p_Actinobacteria.c_Actinomycetia.o_Actinomycetales.f_Actin



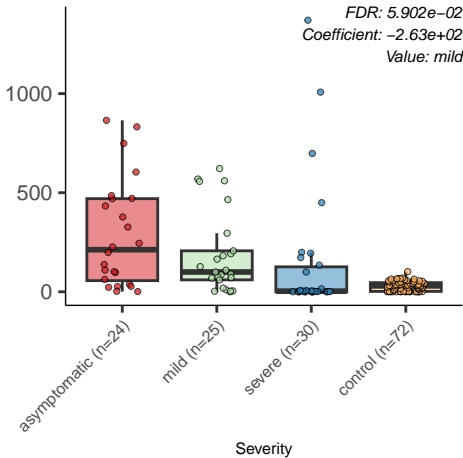


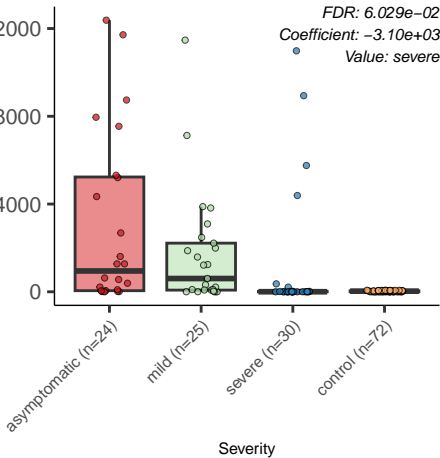




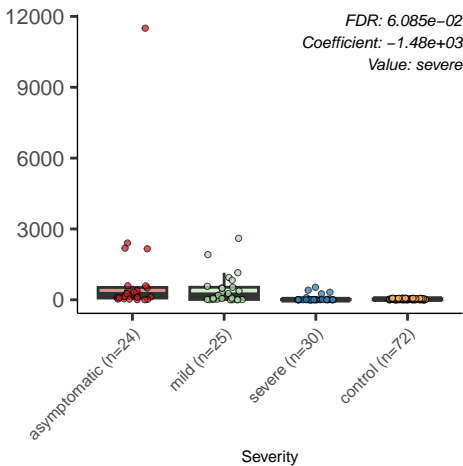


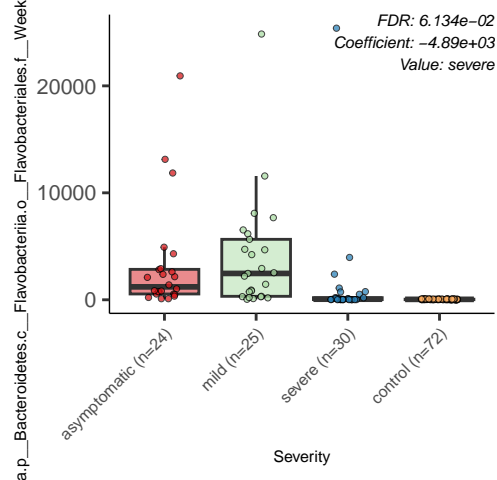
eria.p__Bacteroidetes.c__Flavobacteriia.o__Flavobacteriales.f__Fla

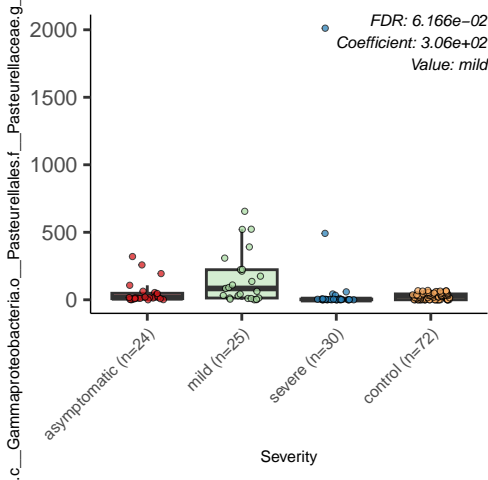


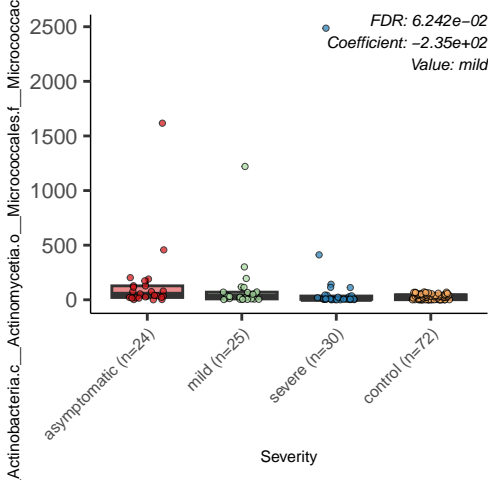


mmaproteobacteria.o__Cardiobacteriales.f__Cardiobacteriaceae.g



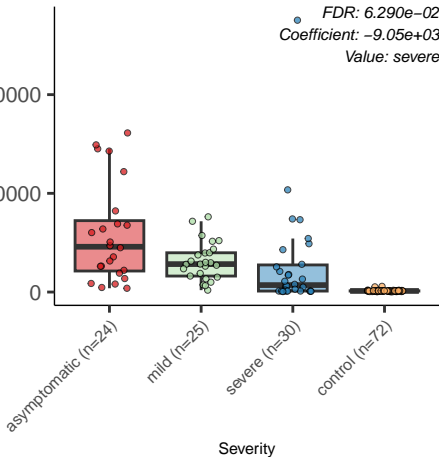


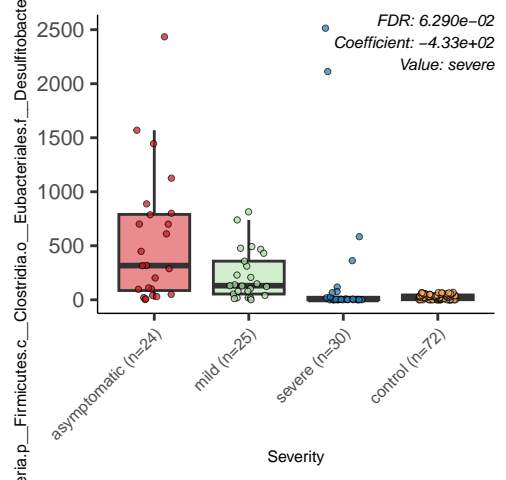


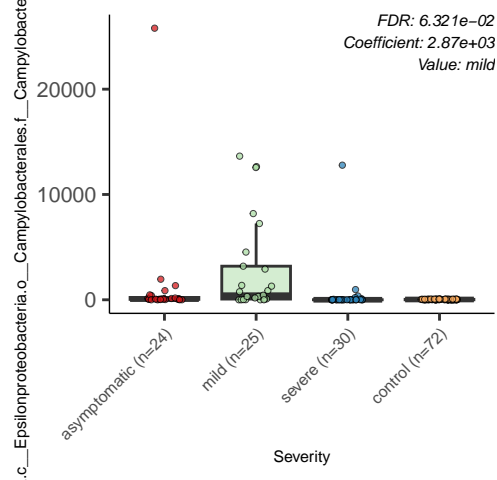


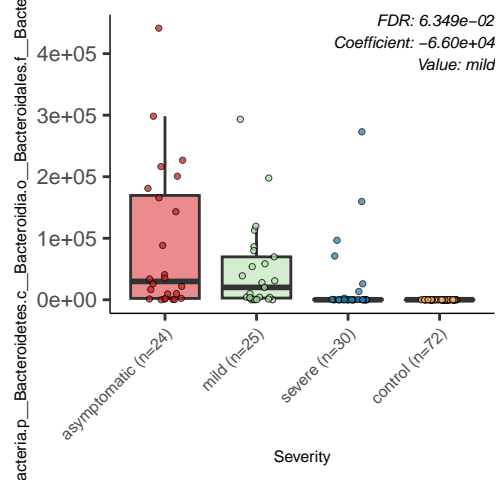
d_Bacteria.p_Cyanobacteria

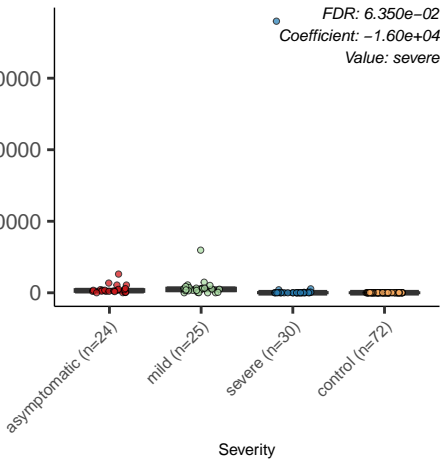
FDR: $6.290e-02$
Coefficient: $-9.05e+03$
Value: severe

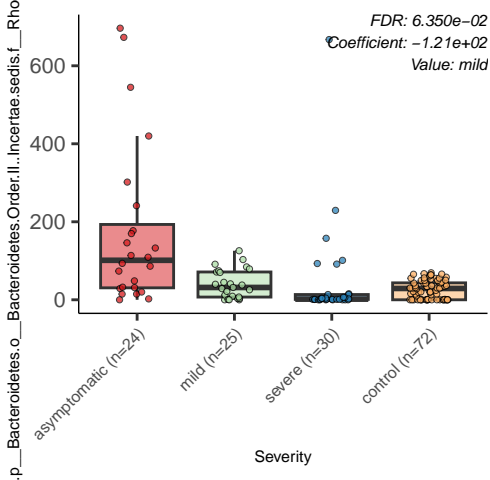




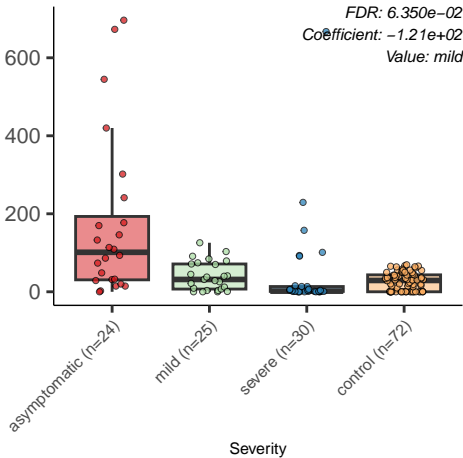


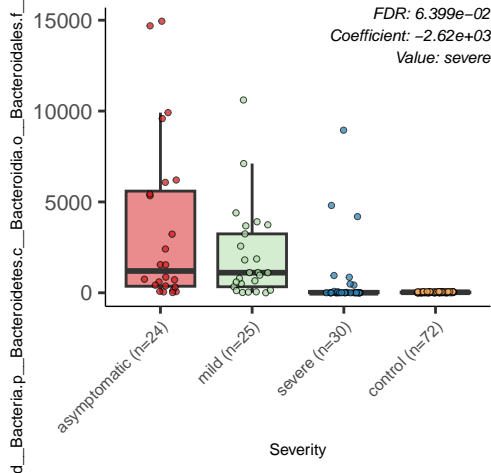




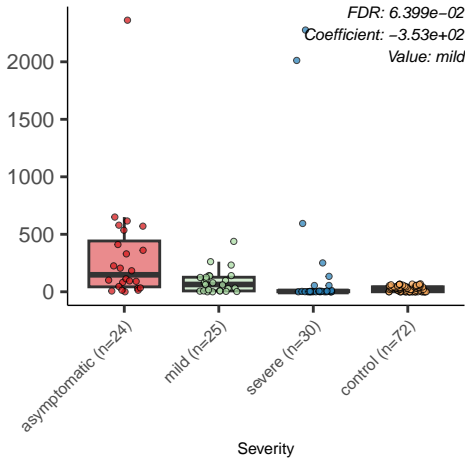


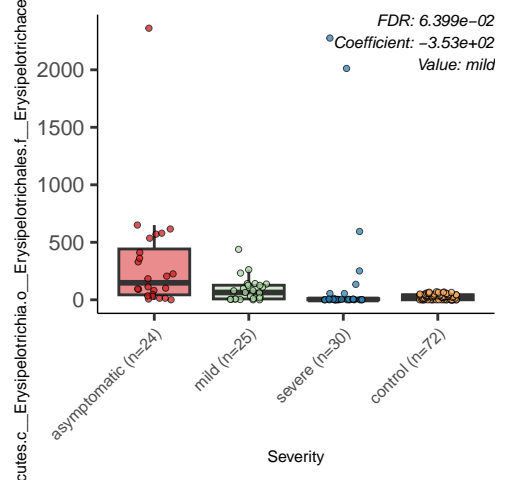
etes.o__Bacteroidetes.Order.II...Incertae.sedis.f__Rhodothermaceae

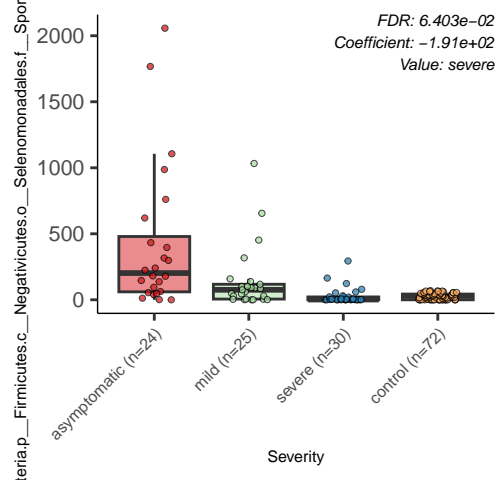


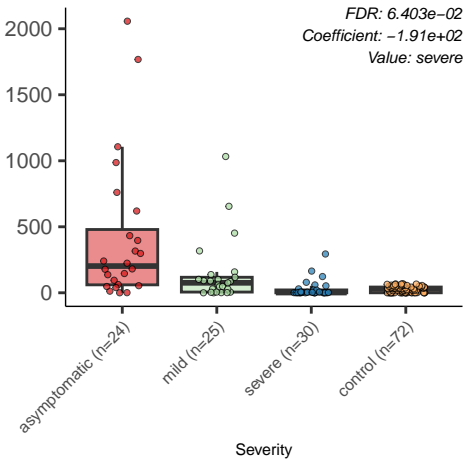


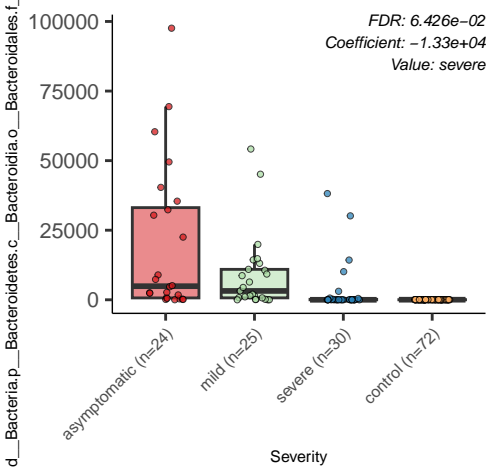
ria.p__Firmicutes.c__Erysipelotrichia.o__Erysipelotrichales.f__Erys

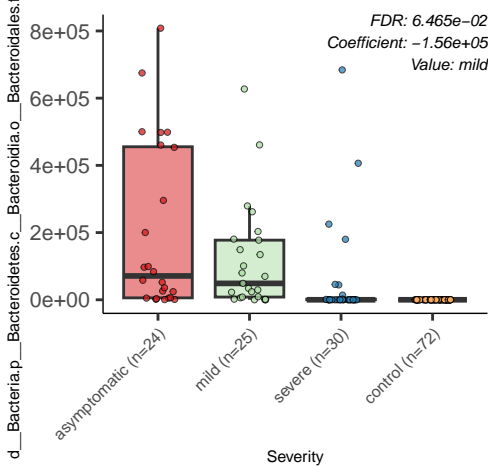




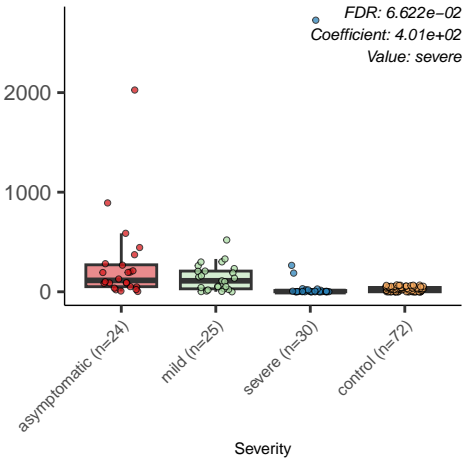








ria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Peptostreptococ



s.c__Clostridia.o__Eubacteriales.f__Peptostreptococaceae.g__Ac

FDR: 6.622e-02
Coefficient: 4.01e+02
Value: severe

2000

1000

0

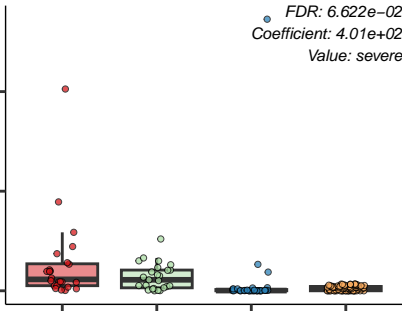
asymptomatic (n=24)

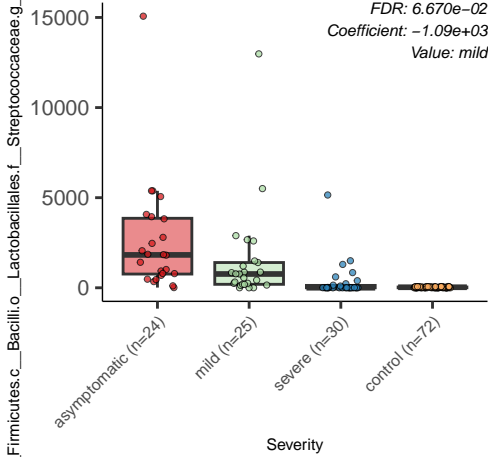
mild (n=25)

severe (n=30)

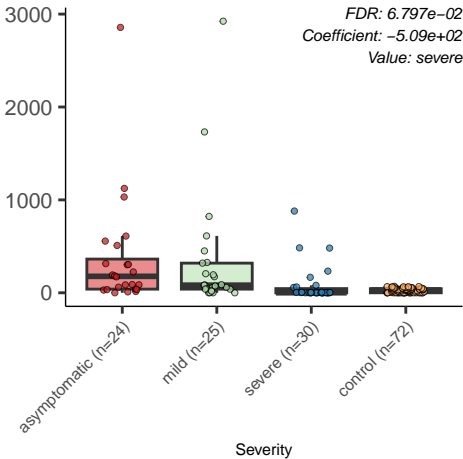
control (n=72)

Severity

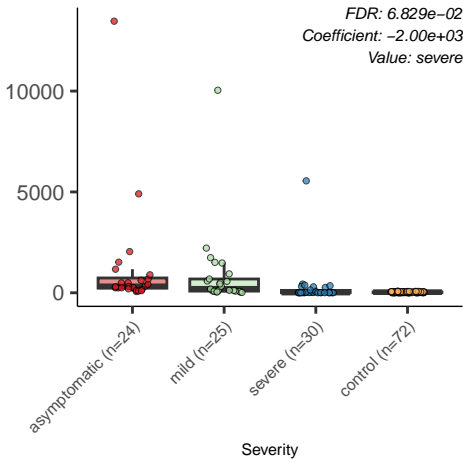




Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Bacteroidaceae.g

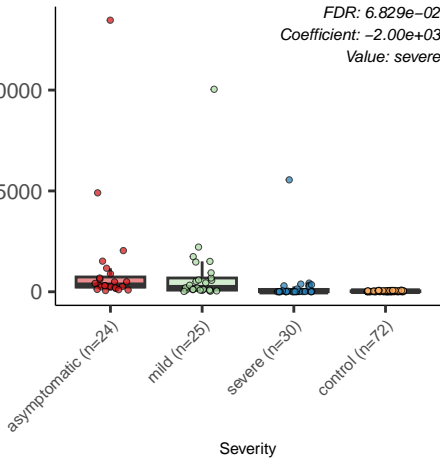


d_Bacteria.p__Planctomycetes.c__Planctomycetia.o__Plan

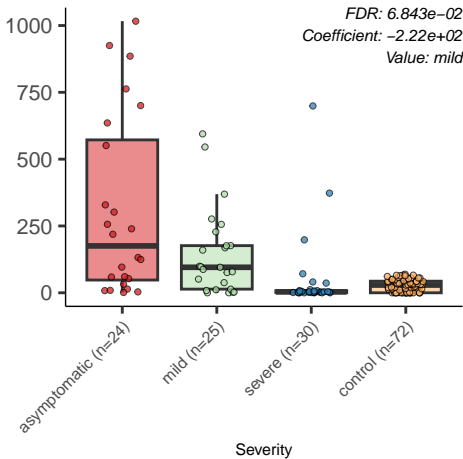


Bacteria.p__Planctomycetes.c__Planctomycetia.o__Planctomycetia

FDR: 6.829×10^{-2}
Coefficient: -2.00×10^3
Value: severe

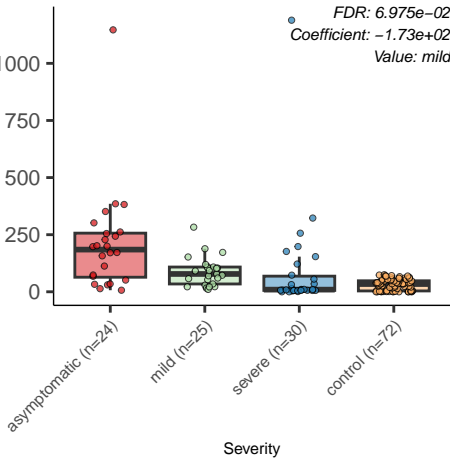


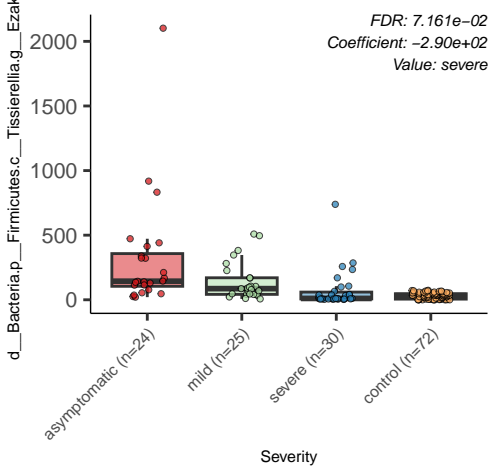
Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Rikenellaceae.

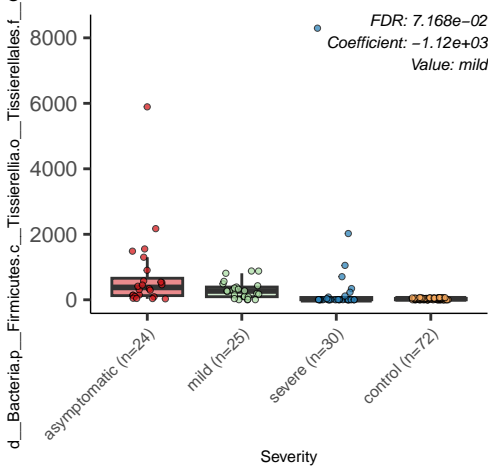


d_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Paenibacillales

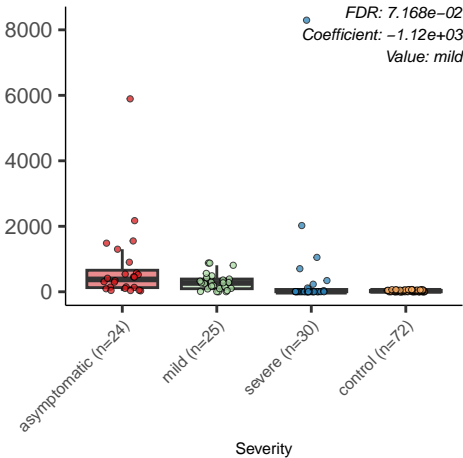
FDR: $6.975e-02$
Coefficient: $-1.73e+02$
Value: mild

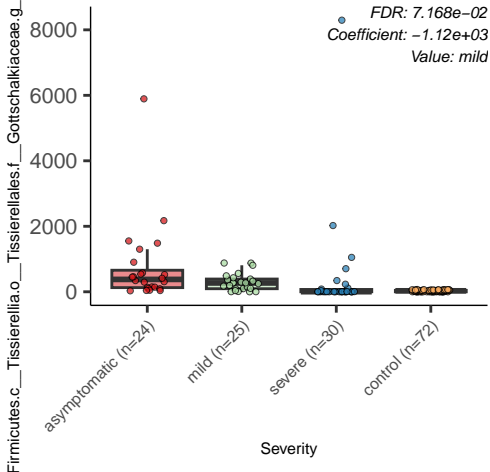




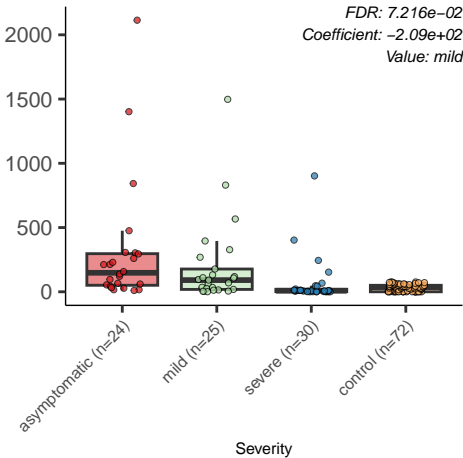


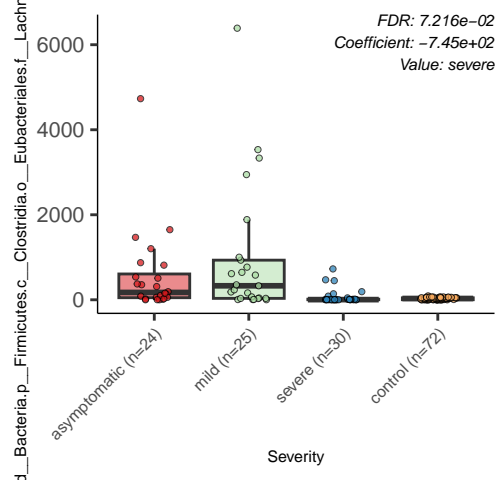
Bacteria.p_Firmicutes.c_Tissierellia.o_Tissierellales.f_Gottschalkia.g



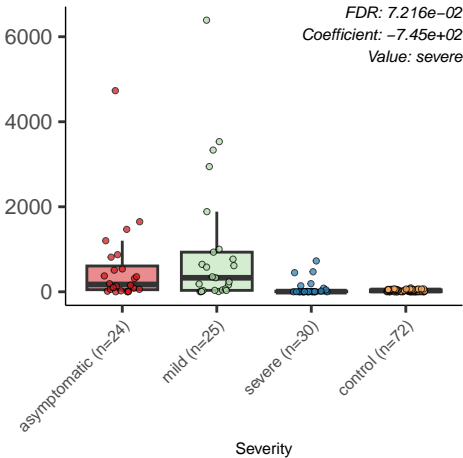


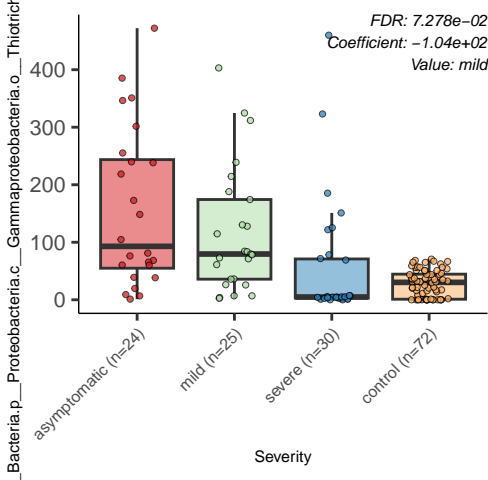
d_Bacteria.p_Bacteroidetes.c_Cytophagia.o_Cytophagales



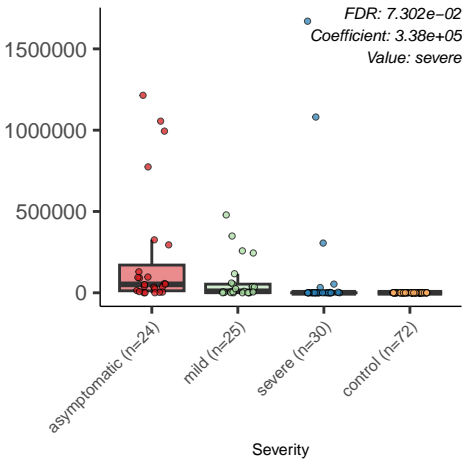


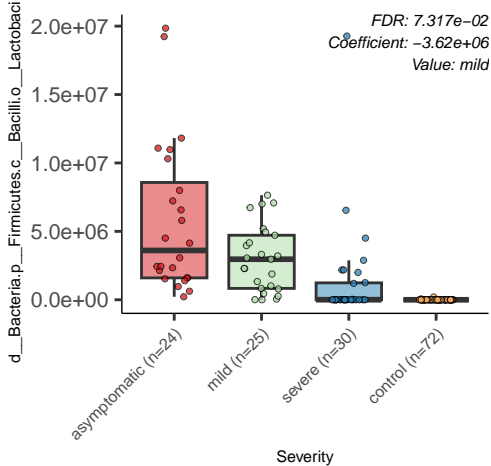
u.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae

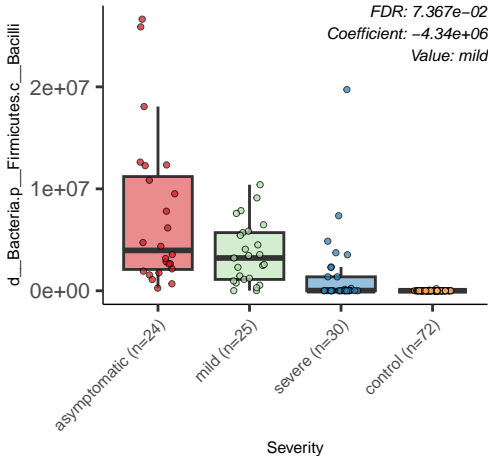




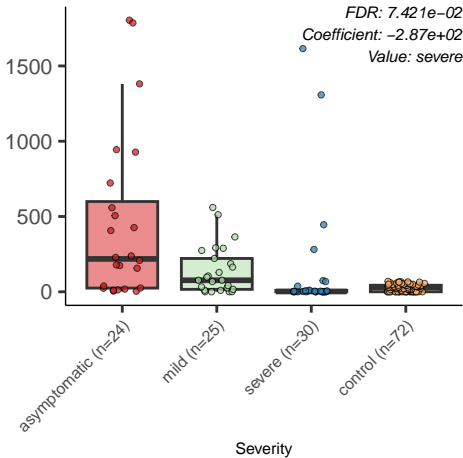
Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Prevotellaceae.

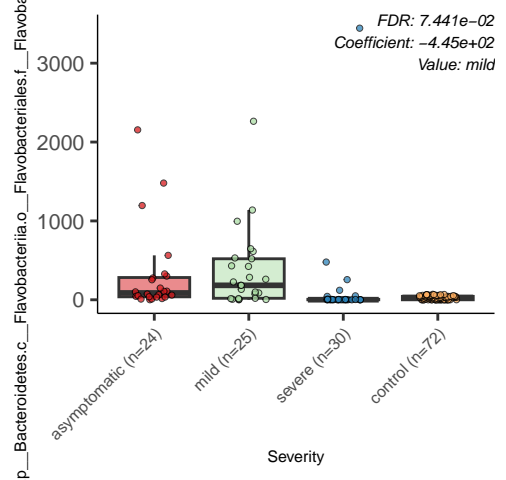


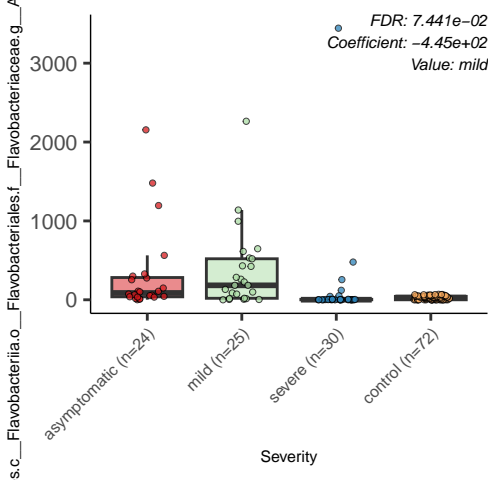


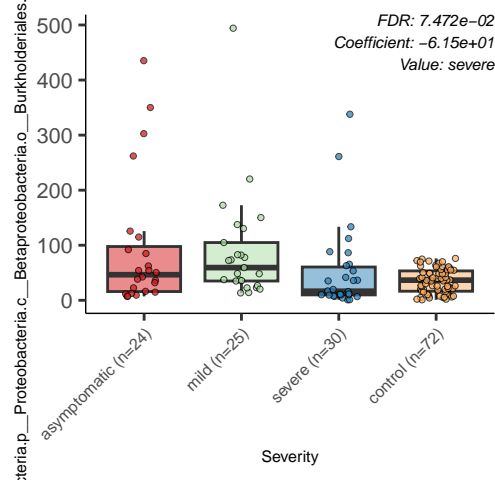


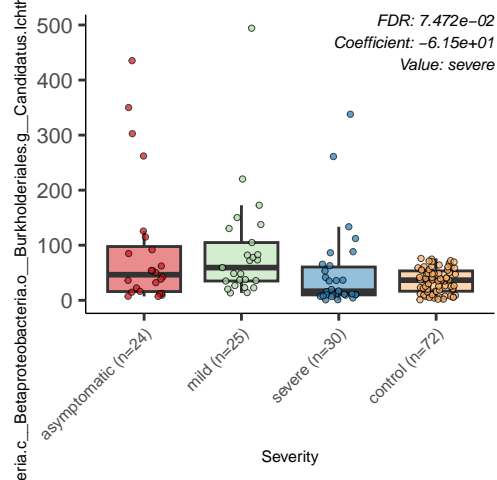
ps.c__Clostridia.o__Eubacteriales.f__Eubacteriales.Family.XIII..Ince



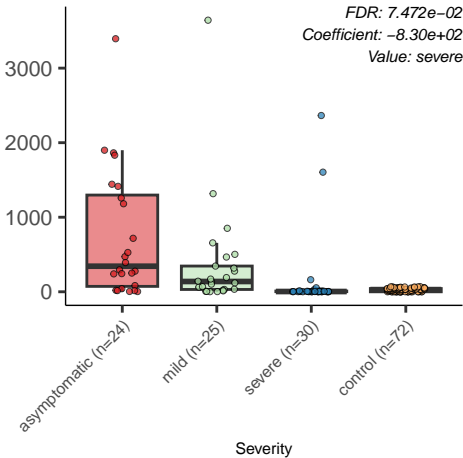




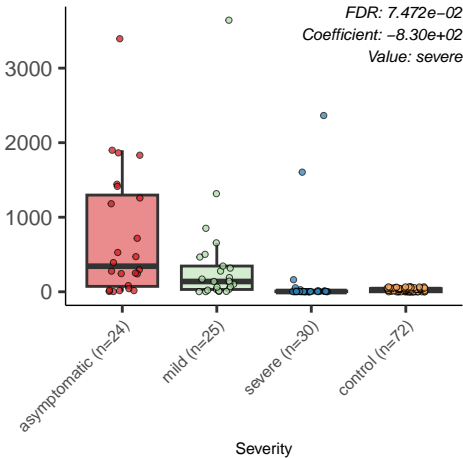




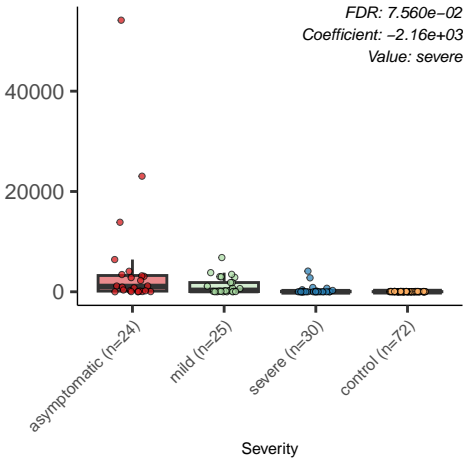
Bacteria.p__Firmicutes.c__Tissierellia.o__Tissierellales.f__Peptonip

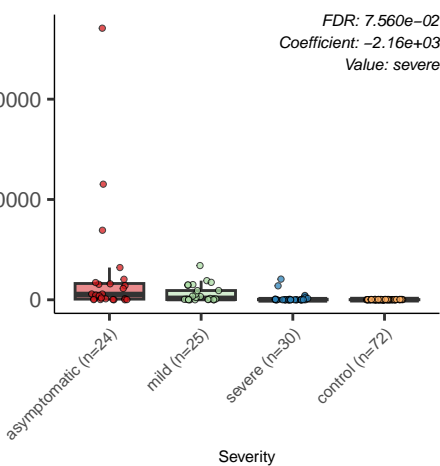


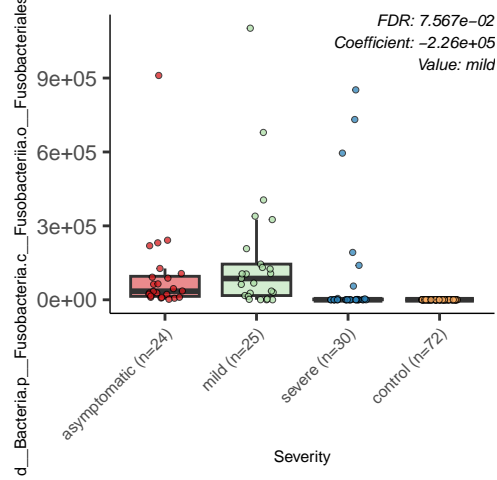
Firmicutes.c__Tissierellia.o__Tissierellales.f__Peptoniphilaceae.g

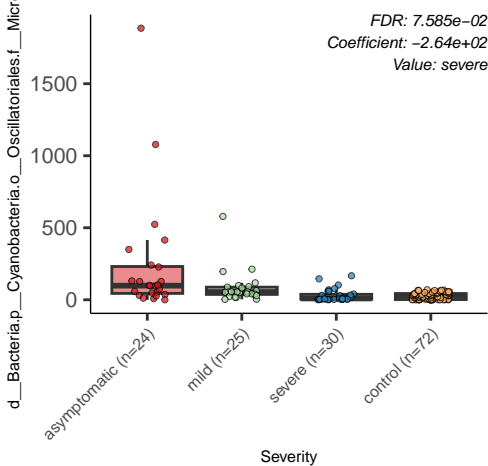


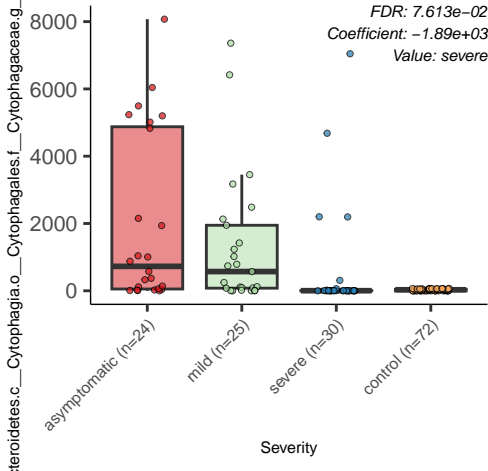
bacteria.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Barn

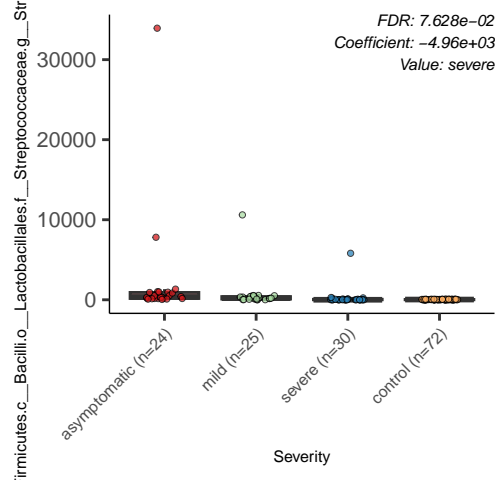




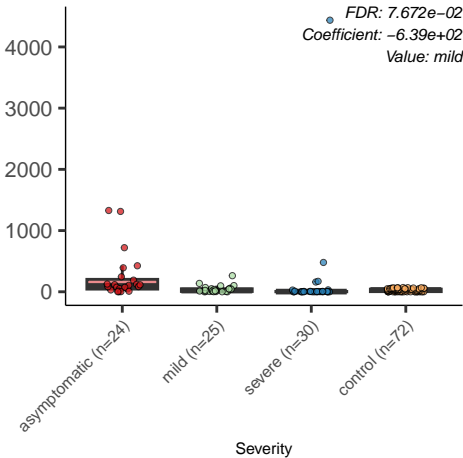






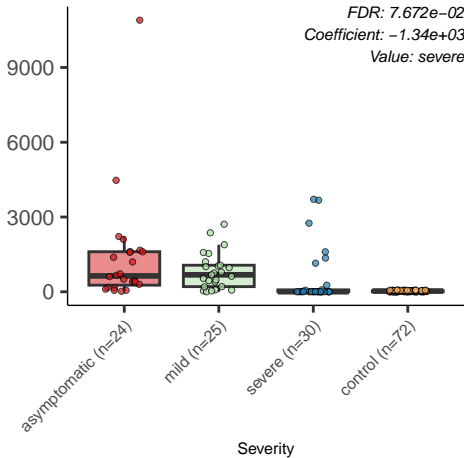


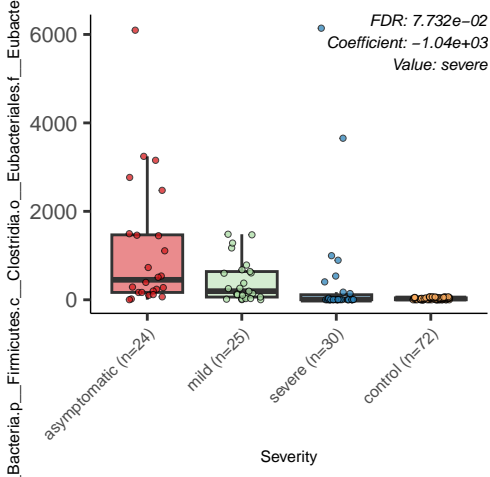
ia.c_Actinomycetia.o_Pseudonocardiales.f_Pseudonocardiaaceae

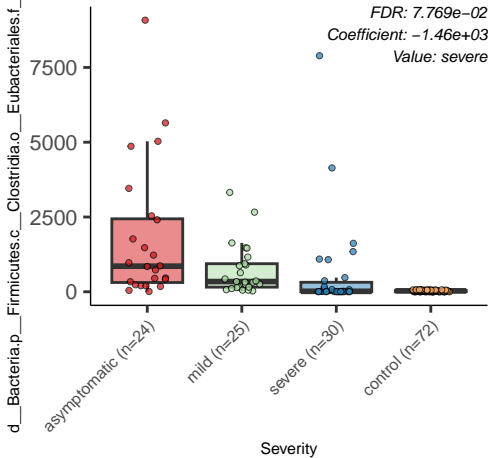


Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g

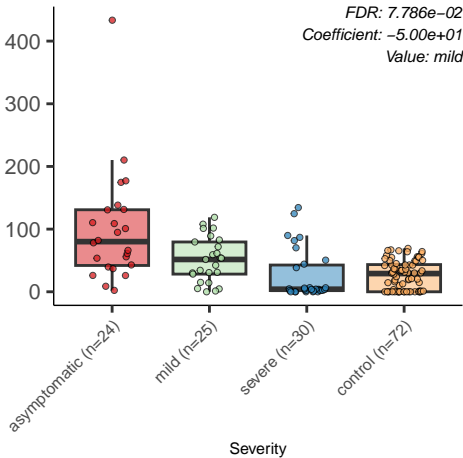
FDR: $7.672e-02$
Coefficient: $-1.34e+03$
Value: severe

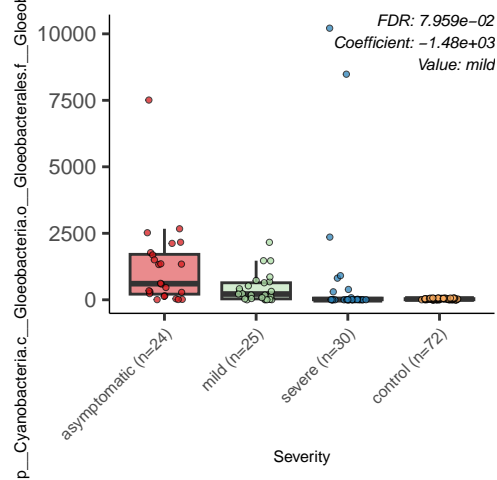


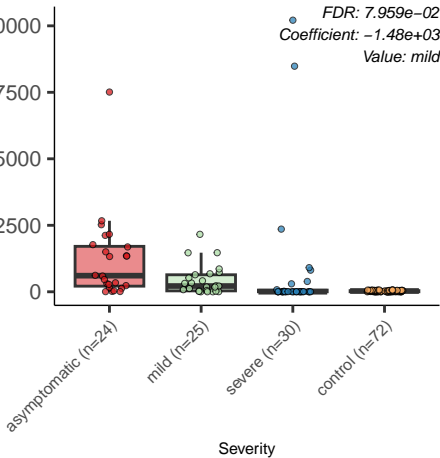




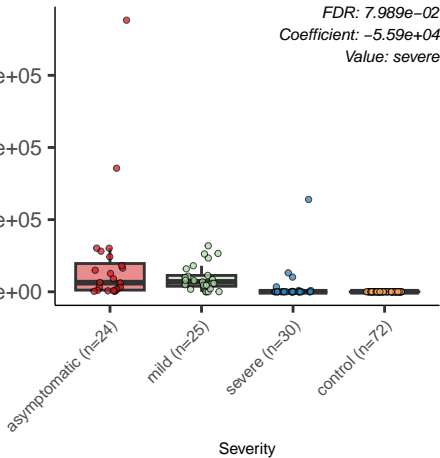
d_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Bacillaceae

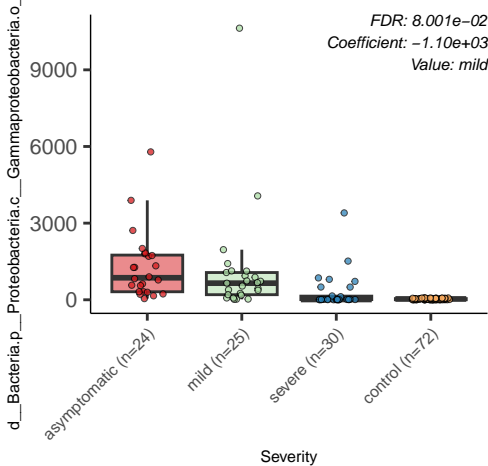


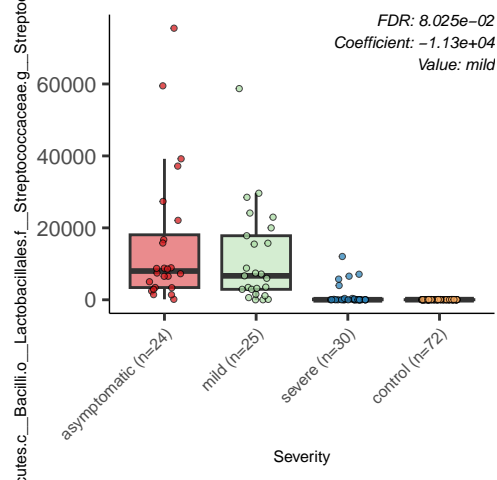


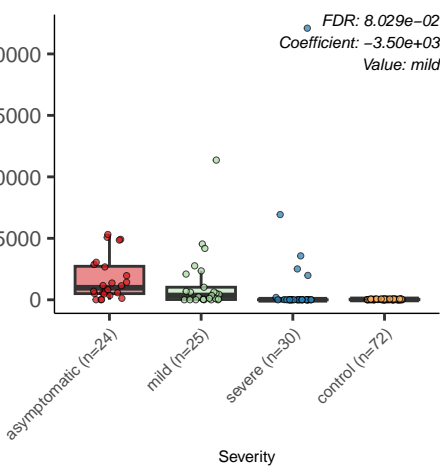


tes.c_Bacteroidia.o_Bacteroidales.f_Porphyromonadaceae.g

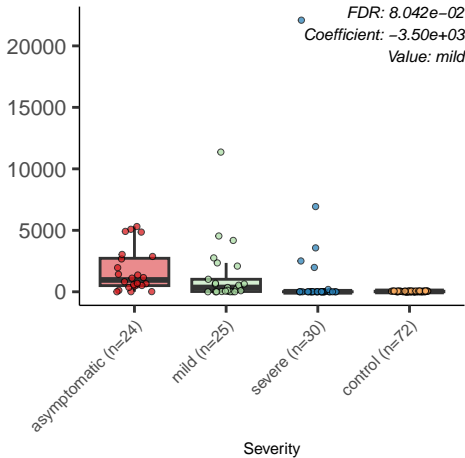




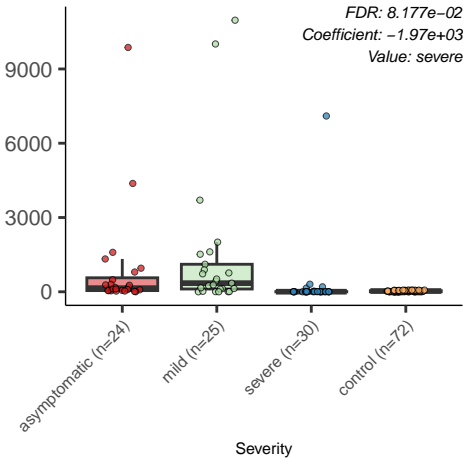




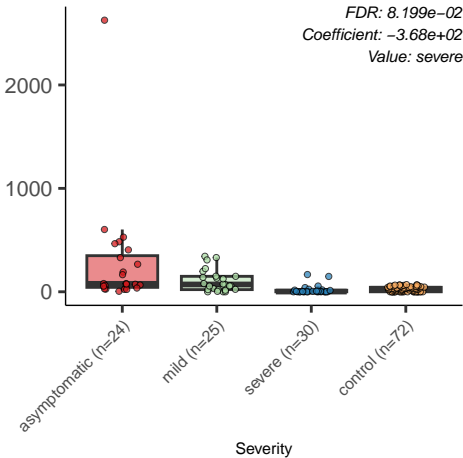
acteria.c_Actinomycetia.o_Micrococcales.f_Microbacteriaceae.g

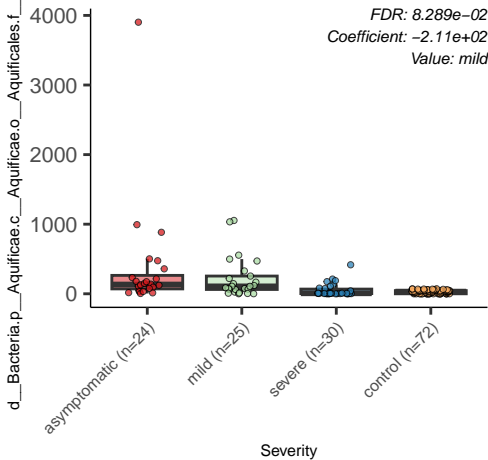


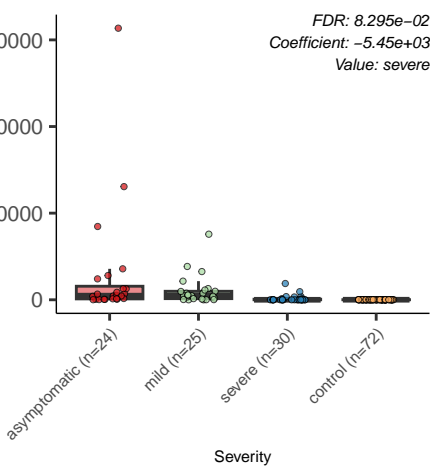
teobacteria.c__Betaproteobacteria.o__Neisseriales.f__Neisseriace



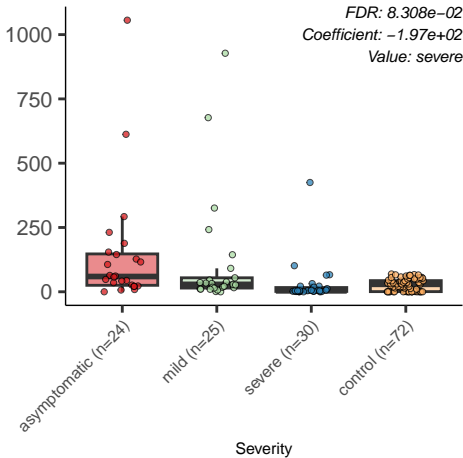
rmicutes.c_Bacilli.o_Lactobacillales.f_Streptococcaceae.g_Stre

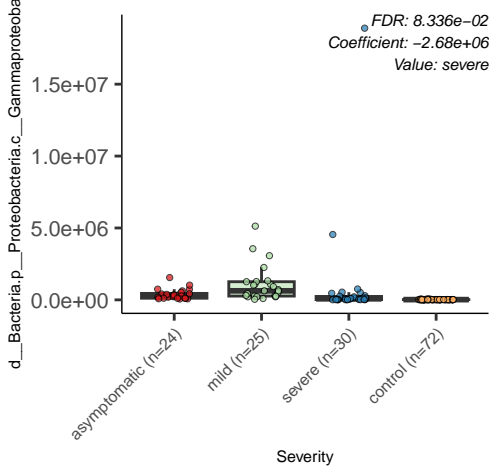


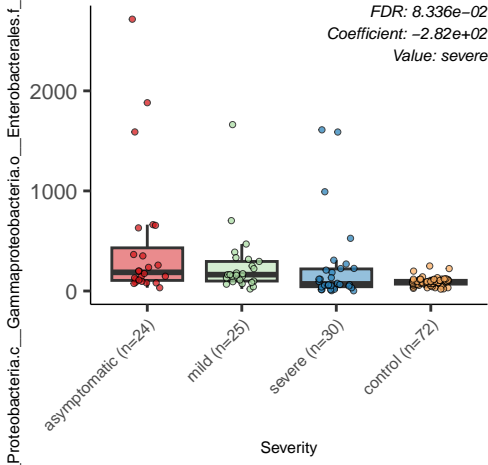


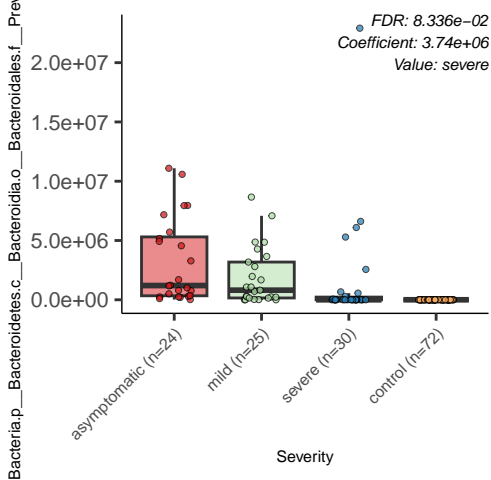


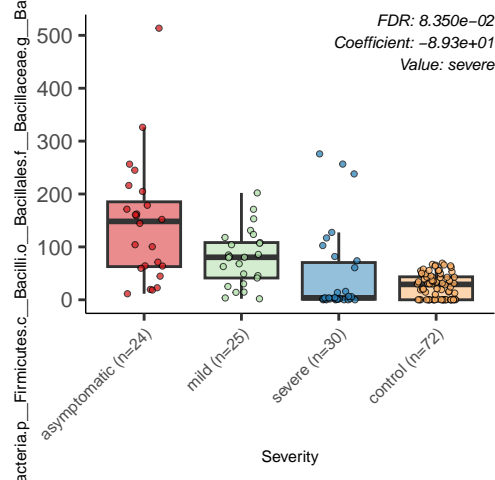
Actinomyces



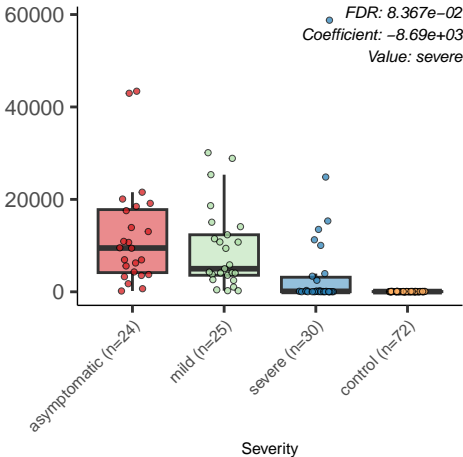


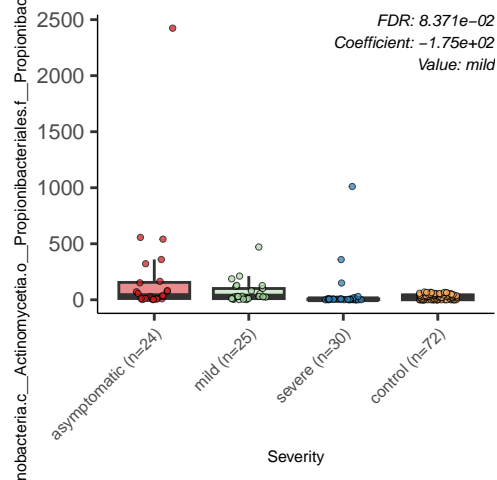


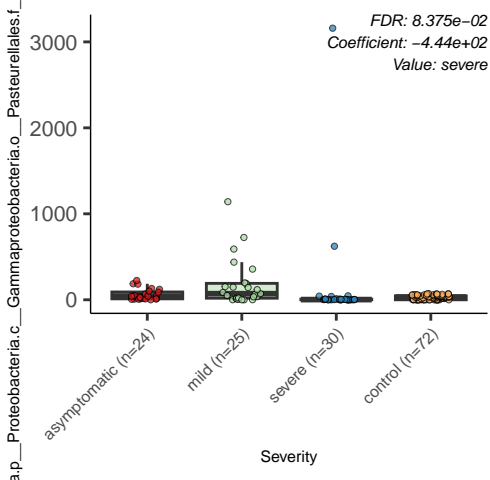


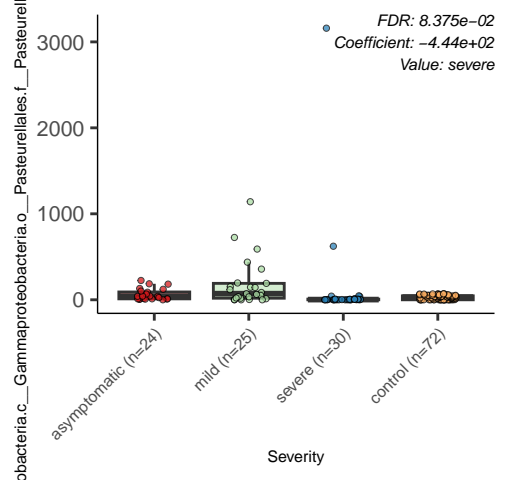


d__Bacteria.p__Tenericutes

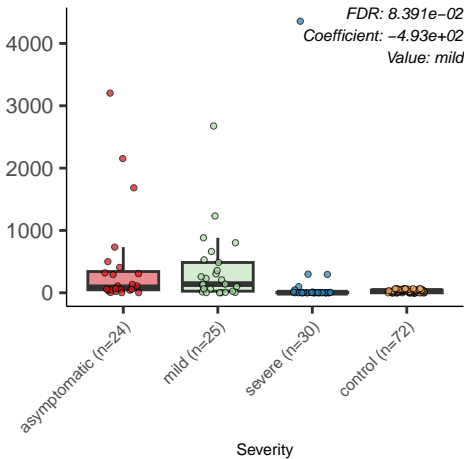


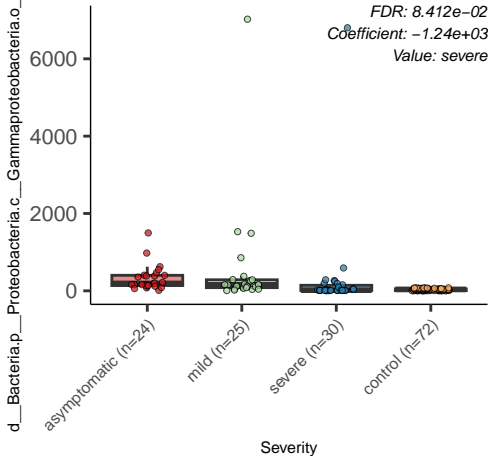


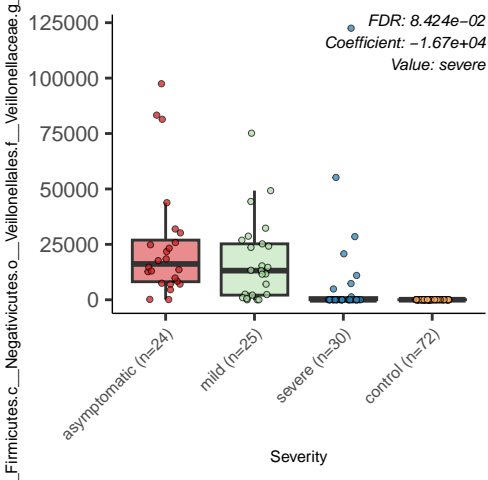


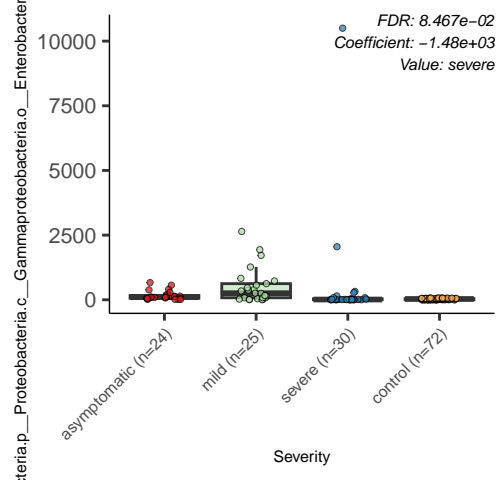


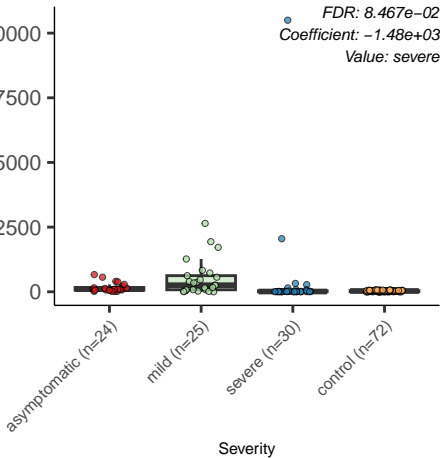
idetes.c__Flavobacteriia.o__Flavobacteriales.f__Weeksellaceae.g

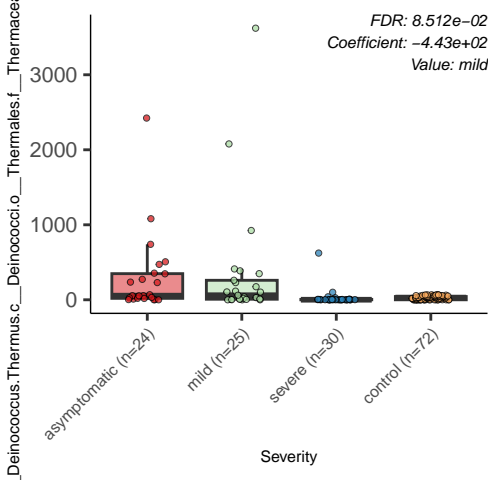






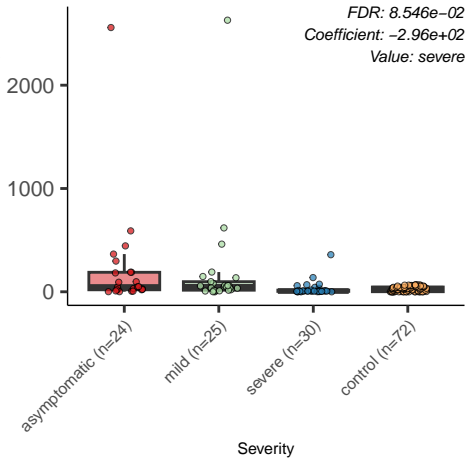


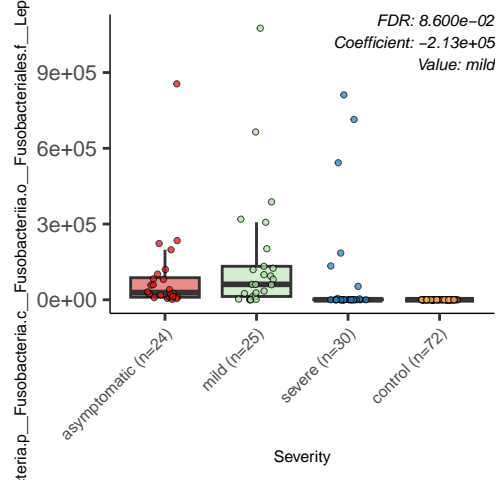


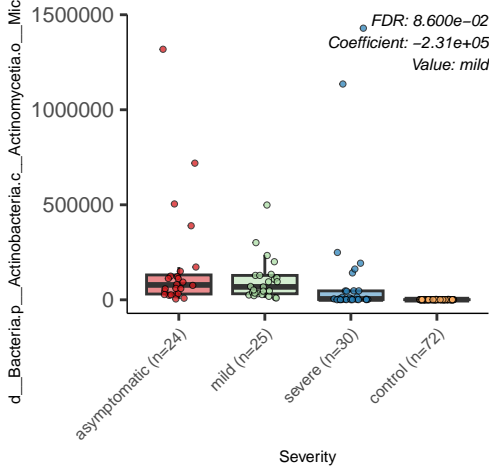


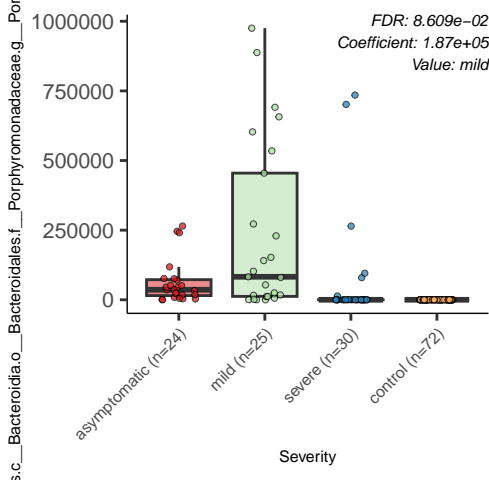
cutes.c__Clostridia.o__Eubacteriales.f__Oscillospiraceae.g__Faeca

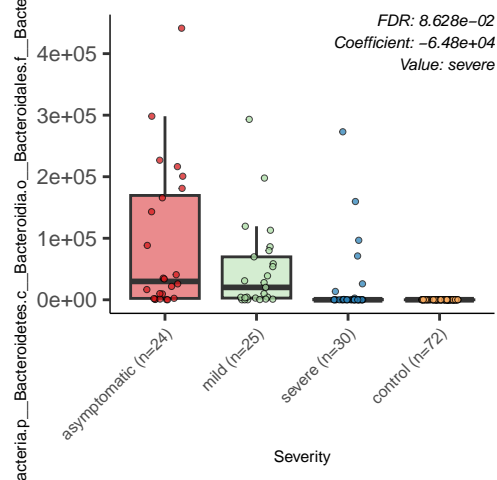
FDR: $8.546e-02$
Coefficient: $-2.96e+02$
Value: severe

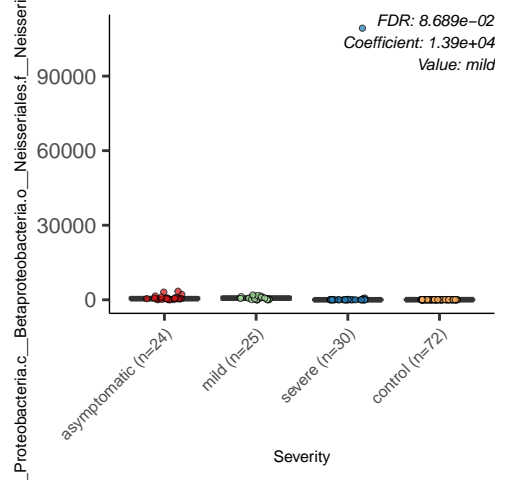


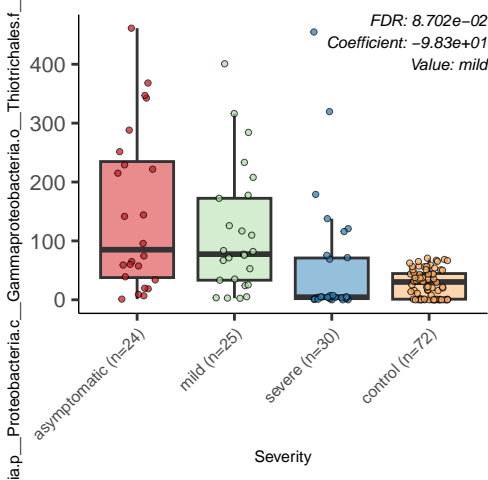


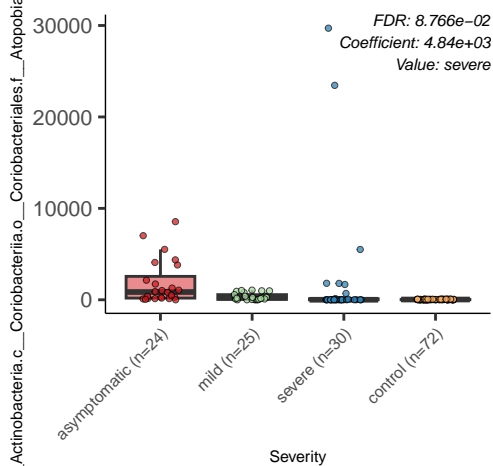


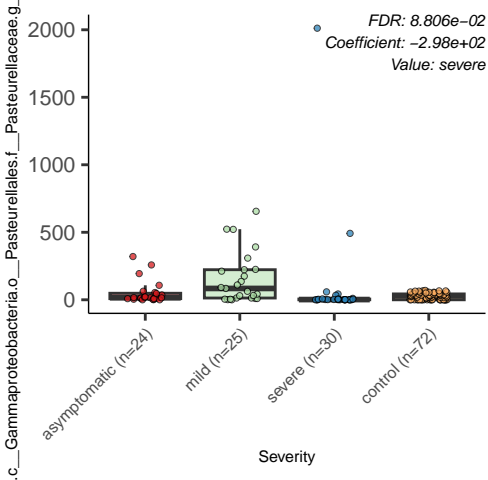


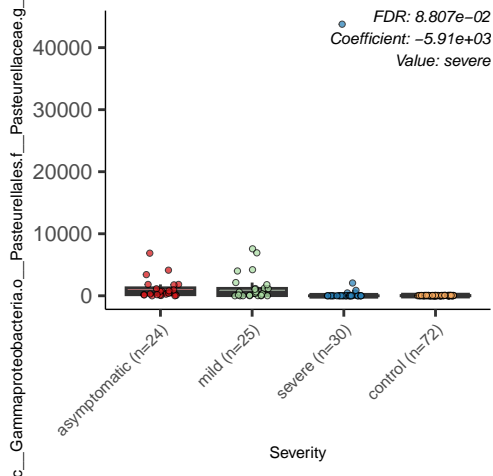


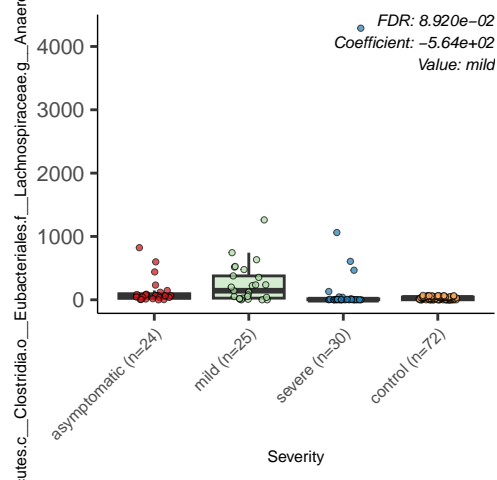




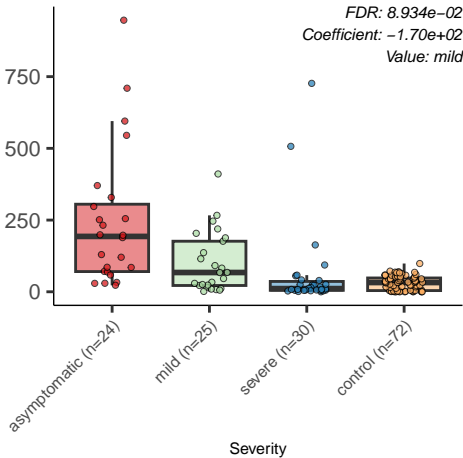


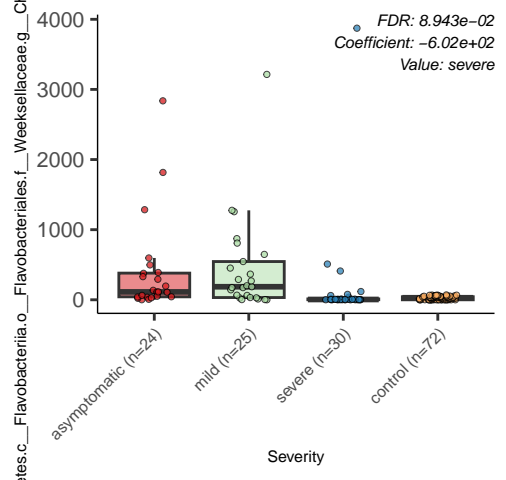




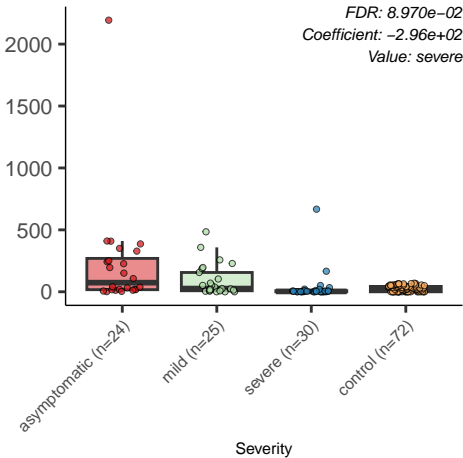


Bacteria.p__Proteobacteria.c__Deltaproteobacteria.o__Myxococ

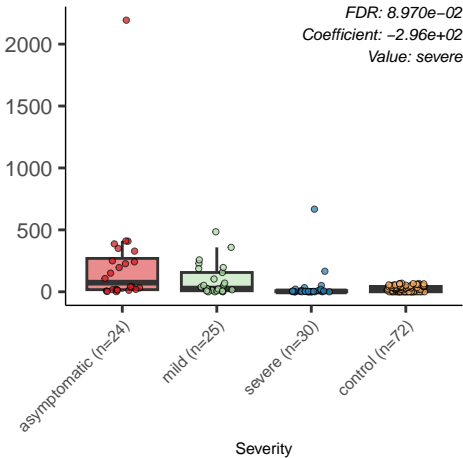


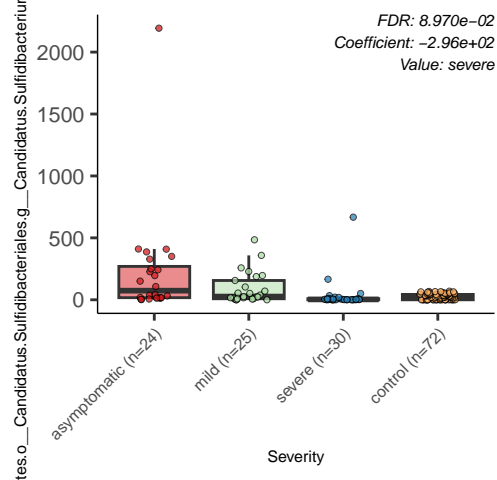


d__Bacteria.p__Bacteroidetes.o__Candidatus.Sulfidib

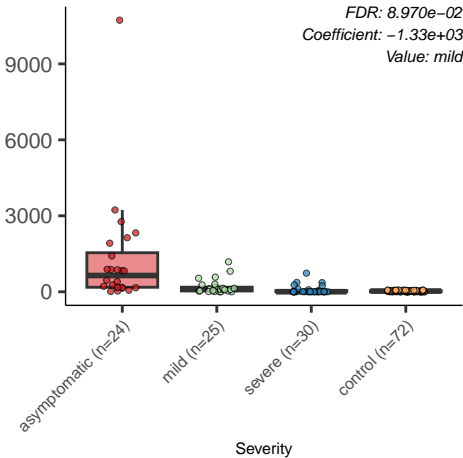


Bacteria.p__Bacteroidetes.o__Candidatus.Sulfidibacteriales.g__Ca

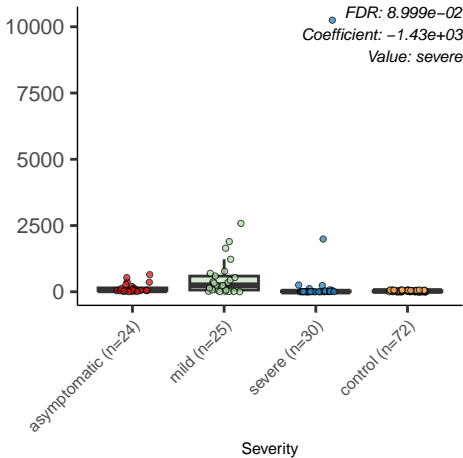


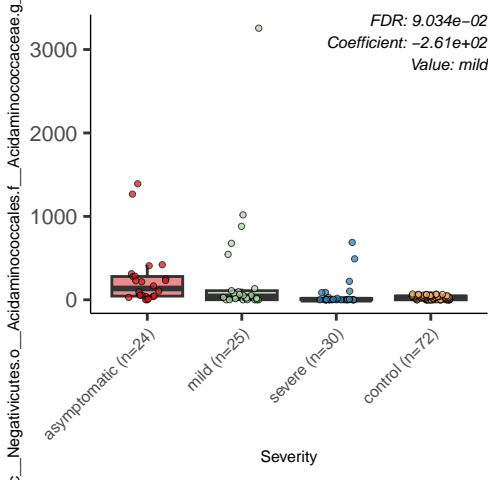


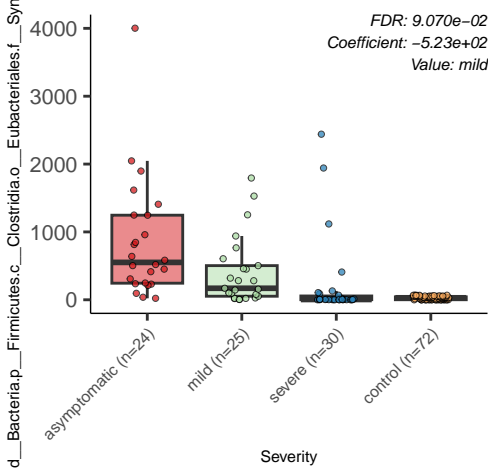
tes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Streptococcus

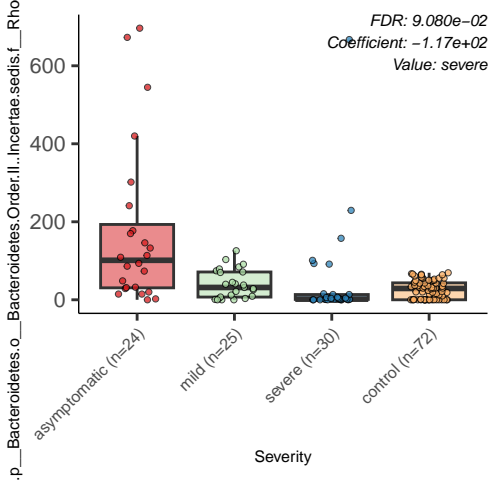


c__Gammaproteobacteria.o__Enterobacterales.f__Bruguerivoraca

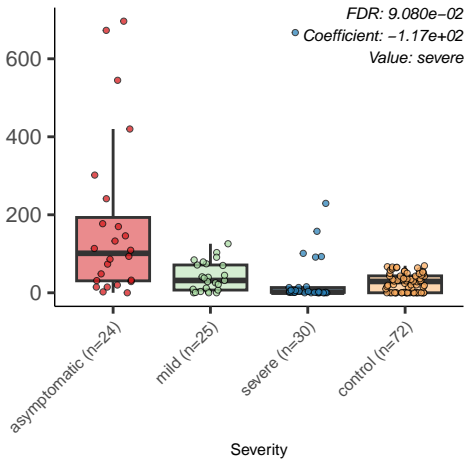








etes.o__Bacteroidetes.Order.II...Incertae.sedis.f__Rhodothermaceae



d__Bacteria.p__Cyanobacteria.o__Pseudanabaena

FDR: 9.159×10^{-2}
Coefficient: -1.70×10^3
Value: severe

10000

5000

0

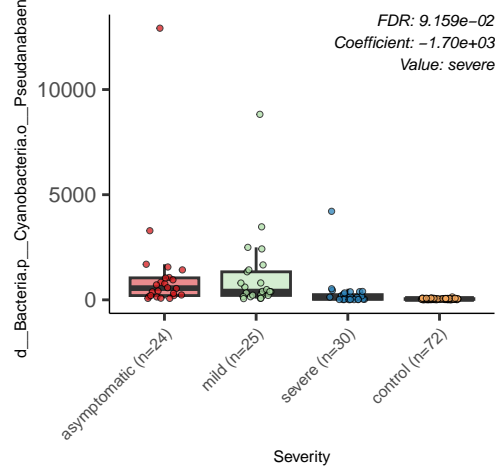
asymptomatic (n=24)

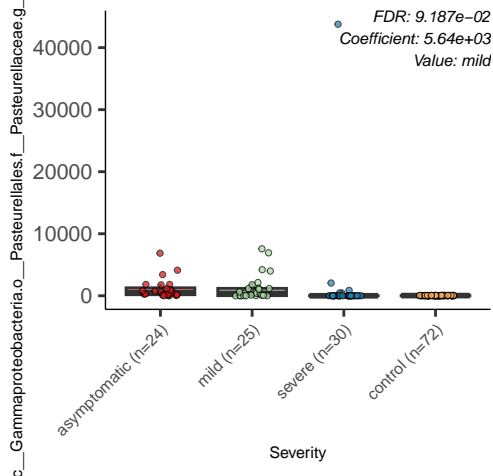
mild (n=25)

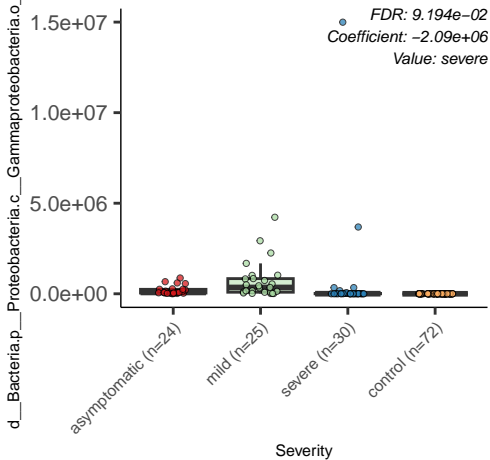
severe (n=30)

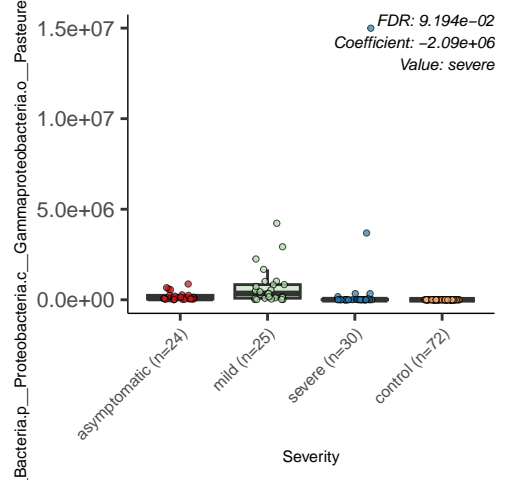
control (n=72)

Severity



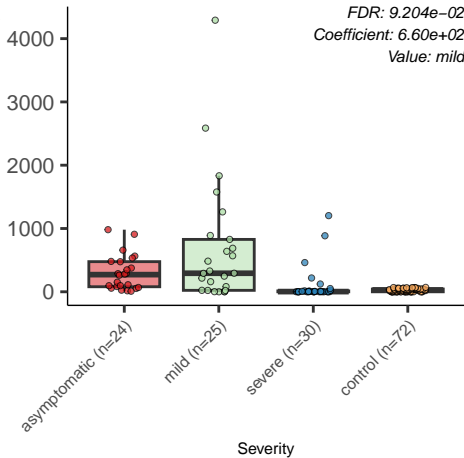




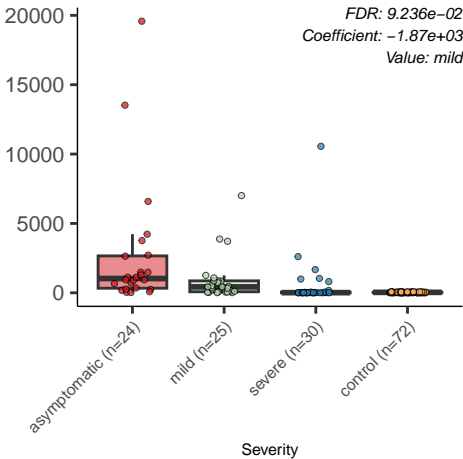


s.c._Flavobacteriia.o_Flavobacteriales.f_Flavobacteriaceae.g

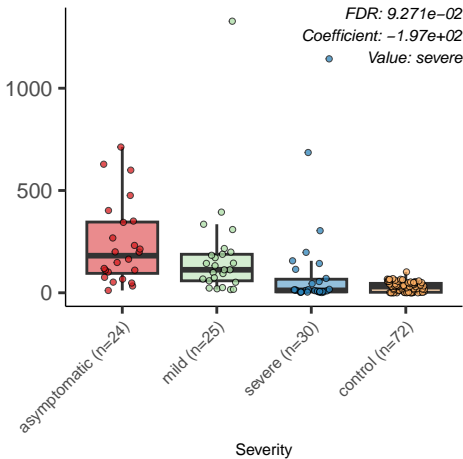
FDR: $9.204e-02$
Coefficient: $6.60e+02$
Value: mild



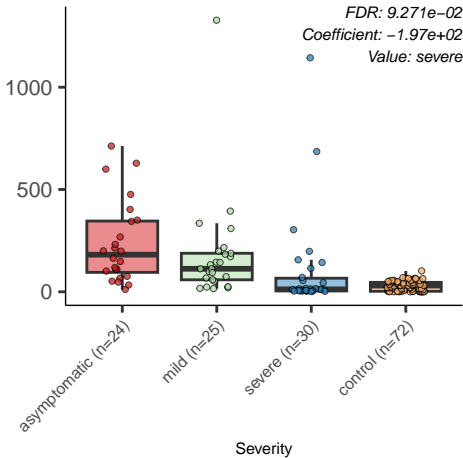
Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Oscillosp

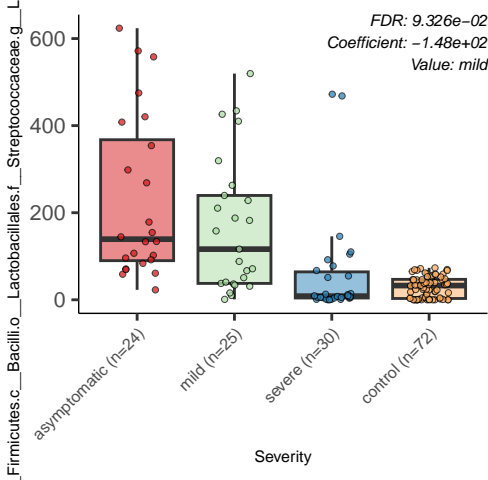


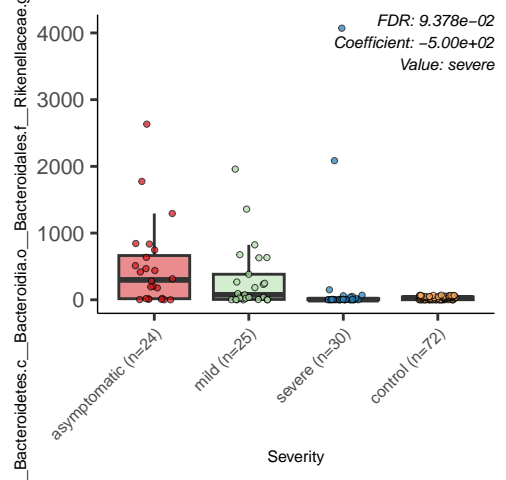
ia.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobacteriale

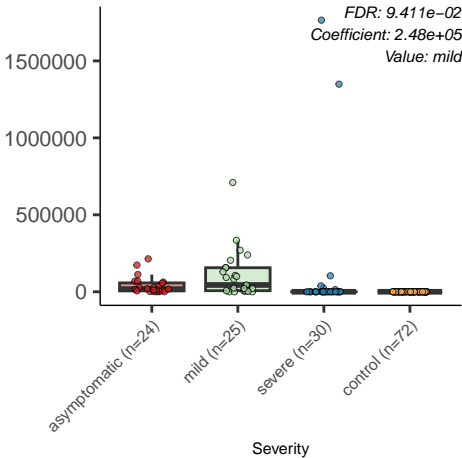


obacteria.c__Gammaproteobacteria.o__Enterobacterales.f__Erwinia

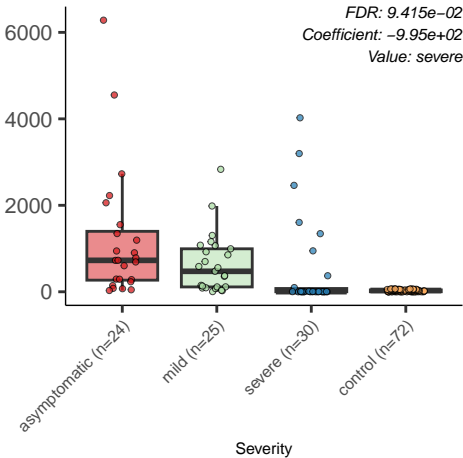


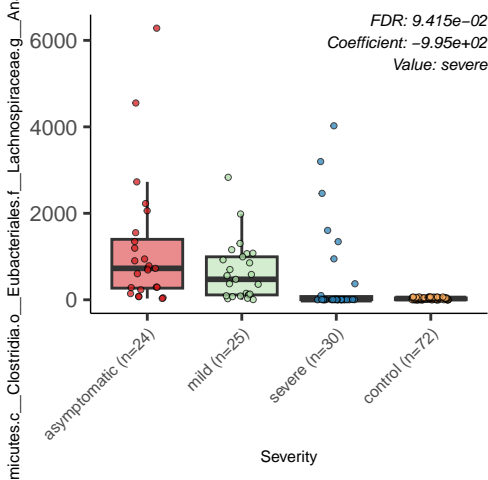


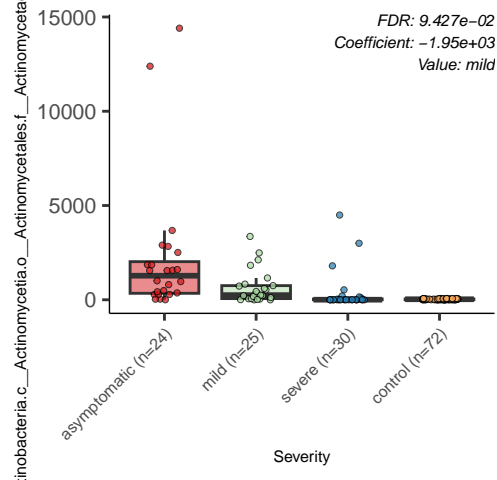


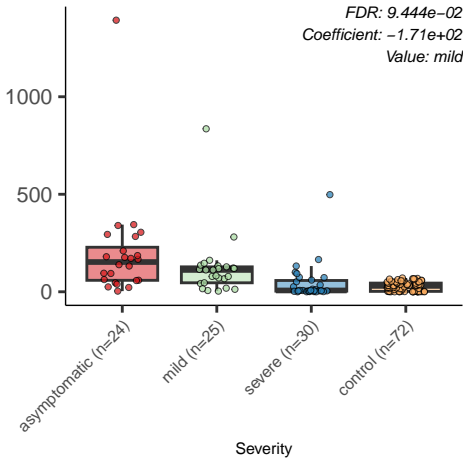


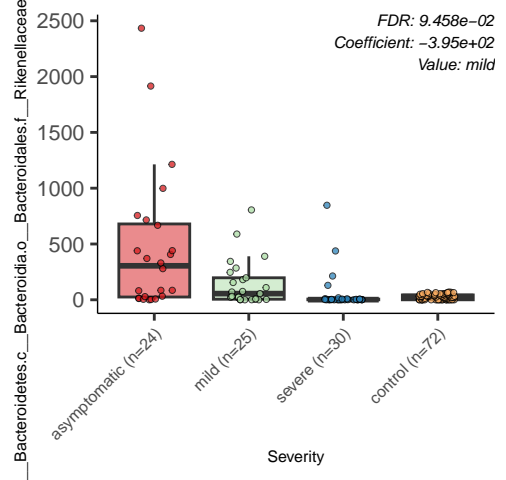
bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnospir

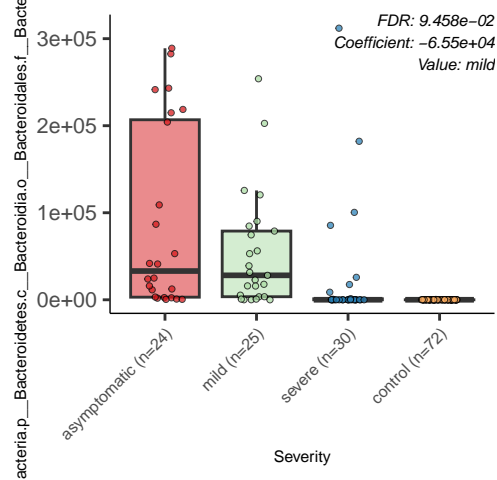


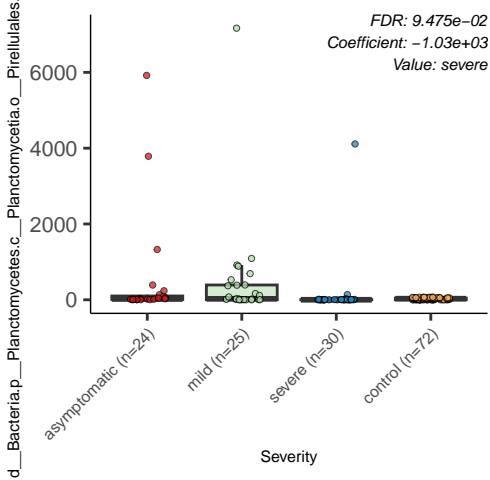


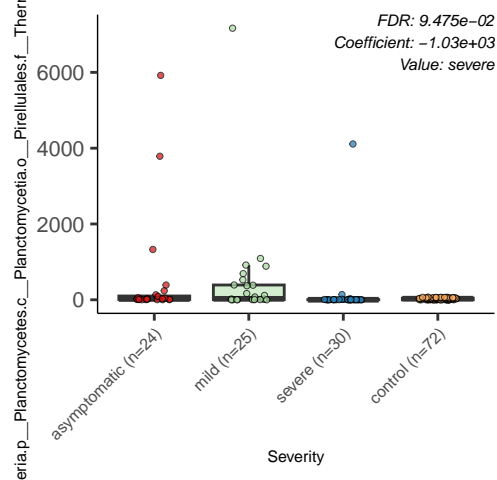




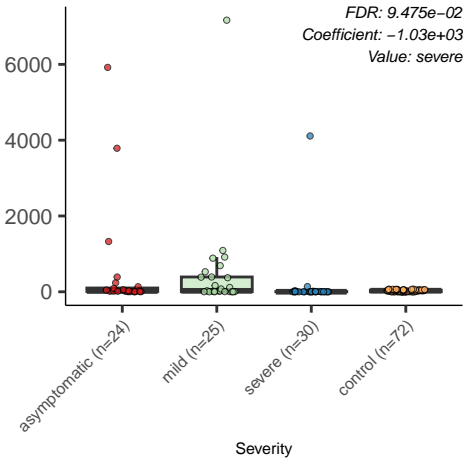


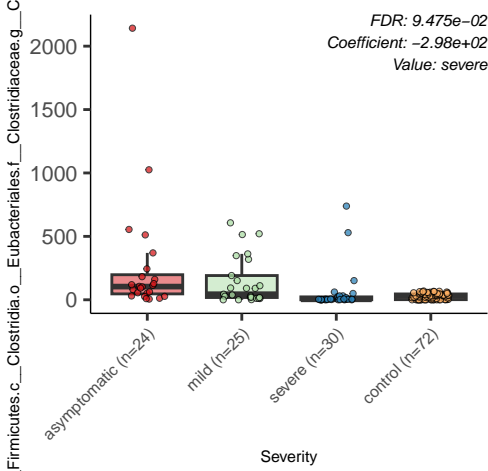


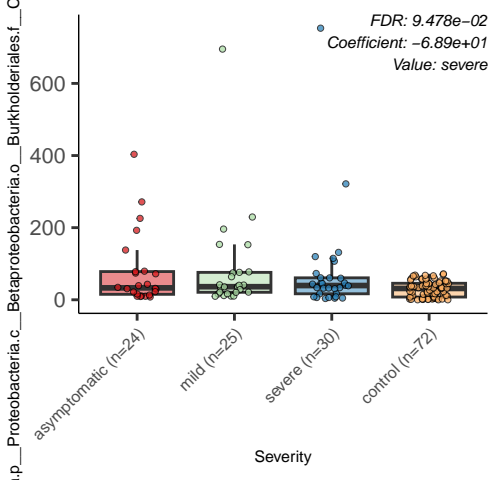




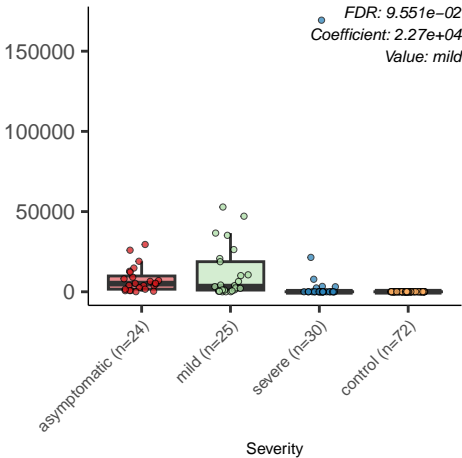
ctomycetes.c__Planctomycetia.o__Pirellulales.f__Thermoguttaceae.



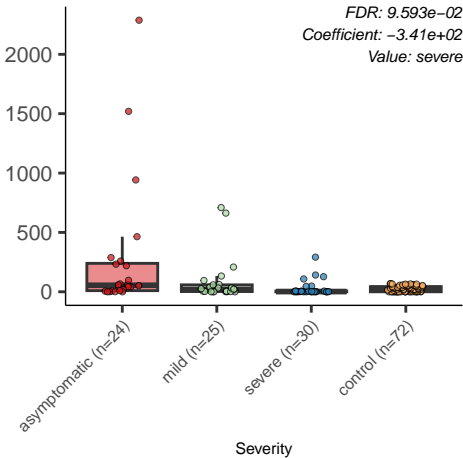




Proteobacteria.c__Gammaproteobacteria.o__Pasteurellales.f__P



tes.c__Clostridia.o__Eubacteriales.f__Oscillospiraceae.g__Caproicib



d_Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__R

10000

5000

0

asymptomatic (n=24)

mild (n=25)

severe (n=30)

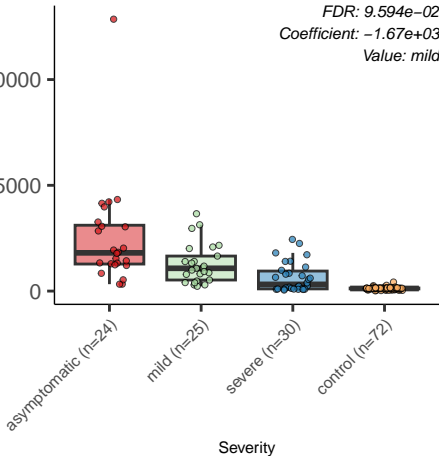
control (n=72)

Severity

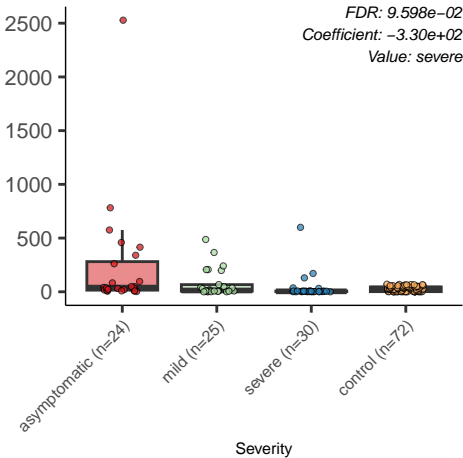
FDR: $9.594e-02$

Coefficient: $-1.67e+03$

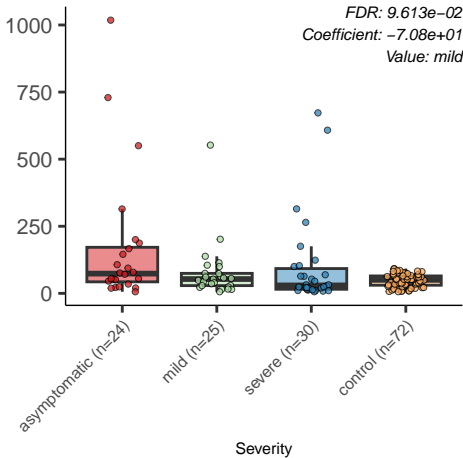
Value: mild

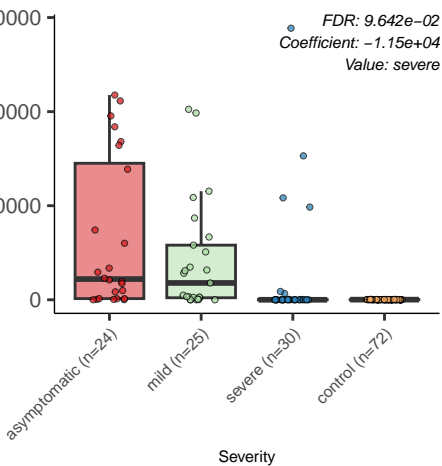


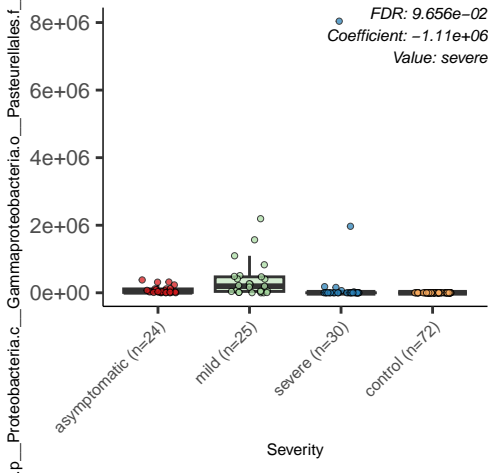
ria.c__Thermoleophila.o__Solirubrobacterales.f__Conexibacteraceae

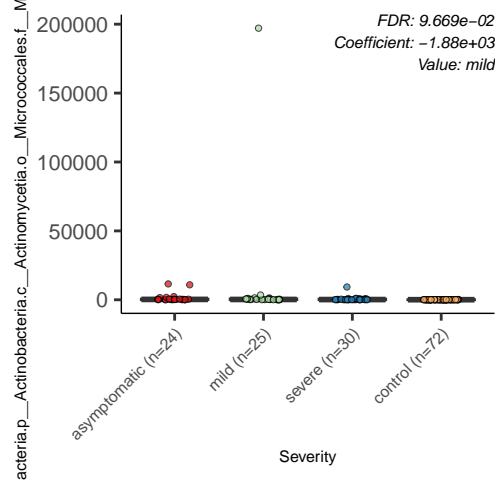


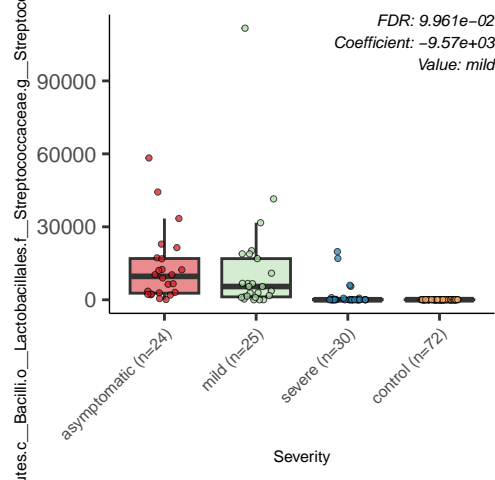
a.c._Gammaproteobacteria.o_Pseudomonadales.f_Pseudomonas



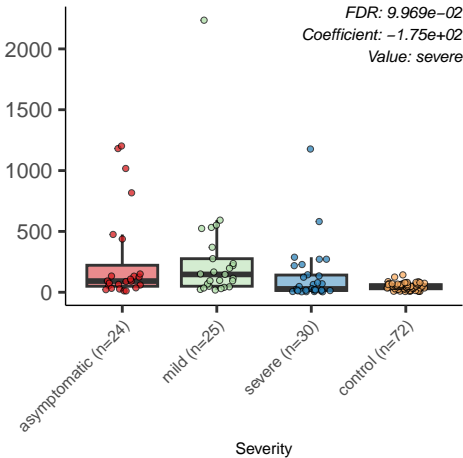




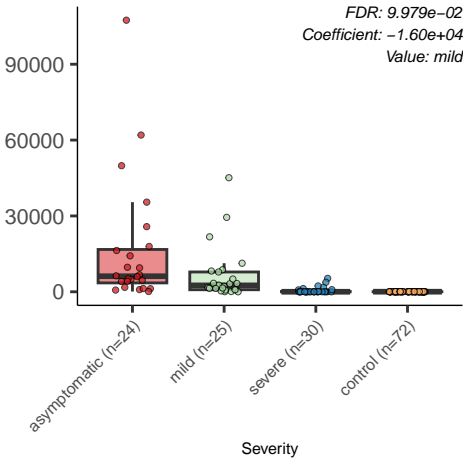


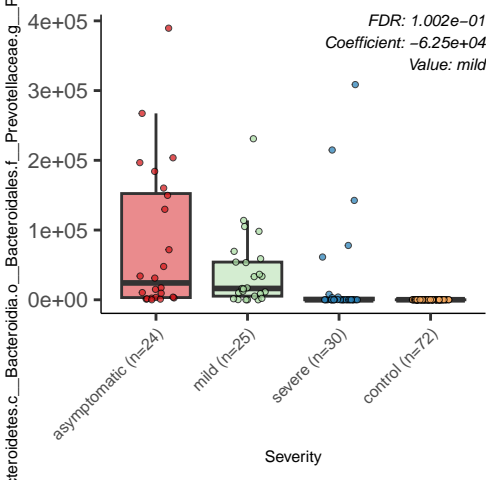


a.p._Proteobacteria.c._Alphaproteobacteria.o._Rickettsiales.f._An

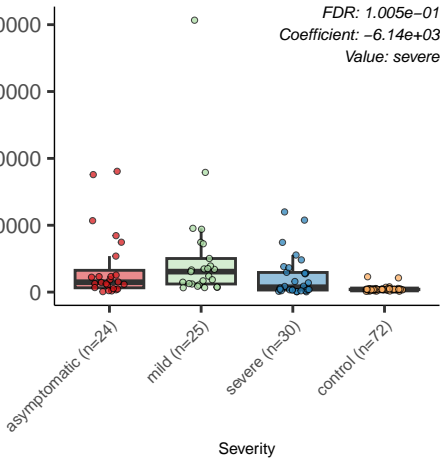


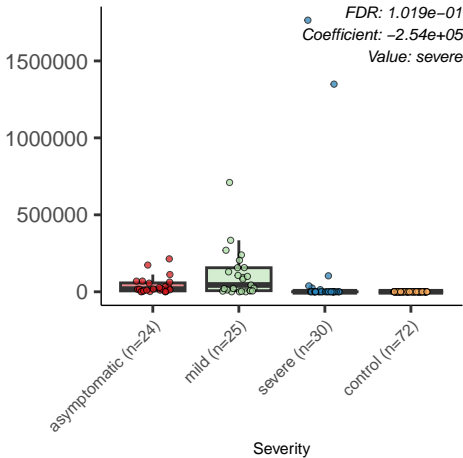
Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Str



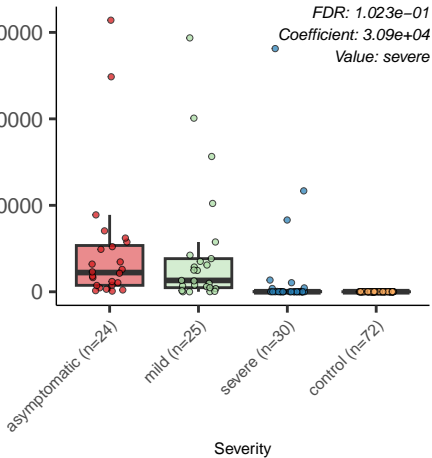


acteria.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurella

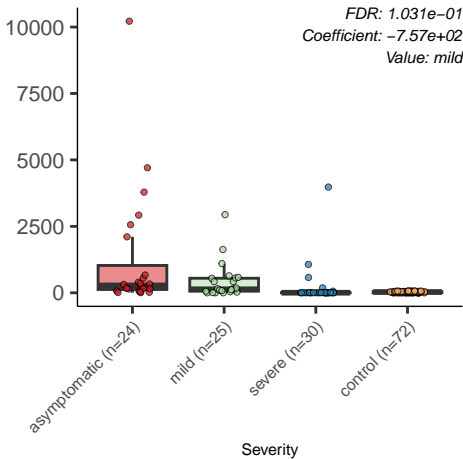


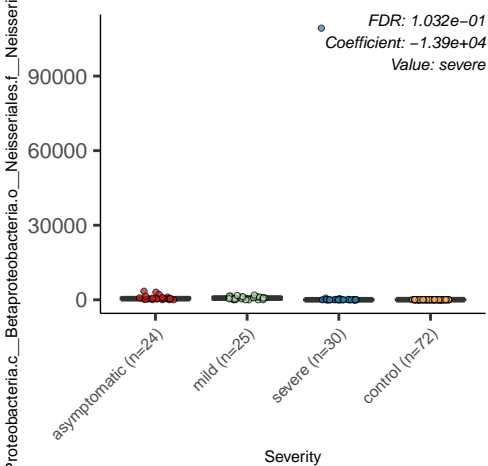


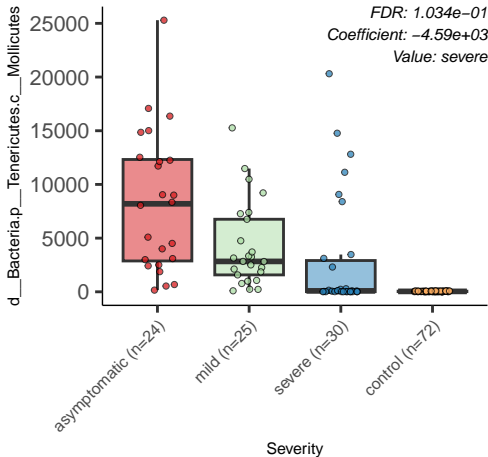
Firmicutes.c__Bacilli.o__Lactobacillales.f__Carnobacteriaceae.g__G

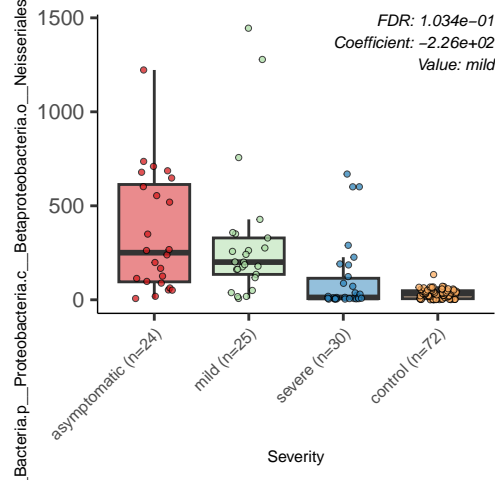


acteria.c__Fusobacteriia.o__Fusobacteriales.f__Fusobacteriaceae.g

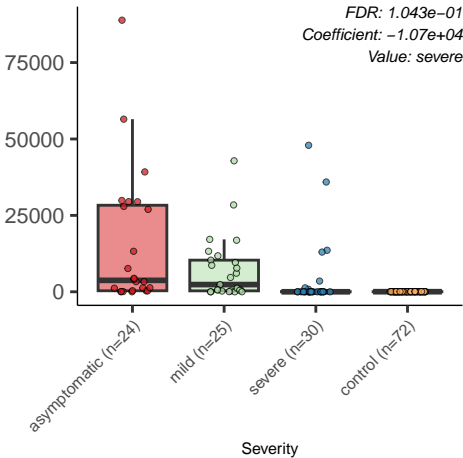


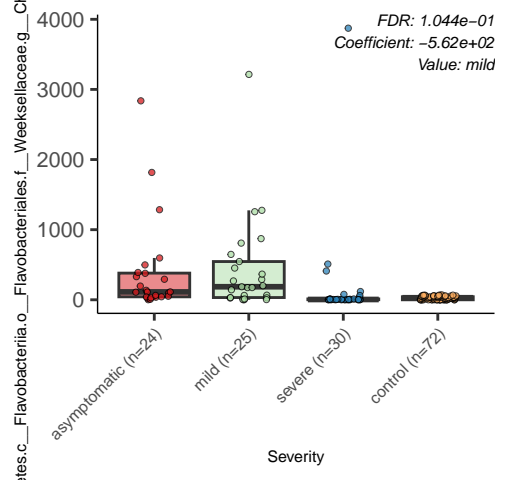


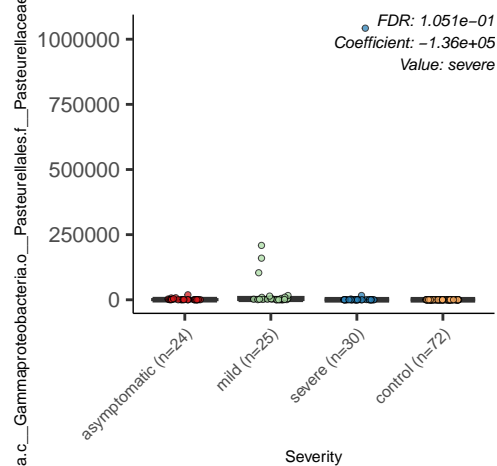


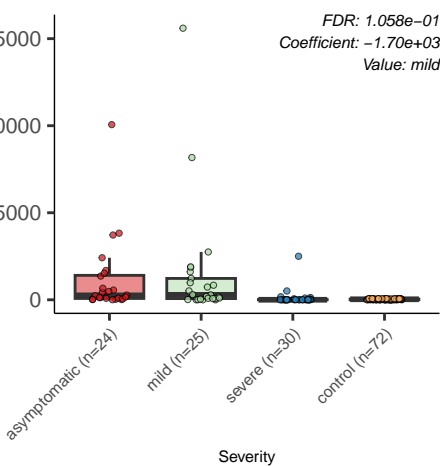


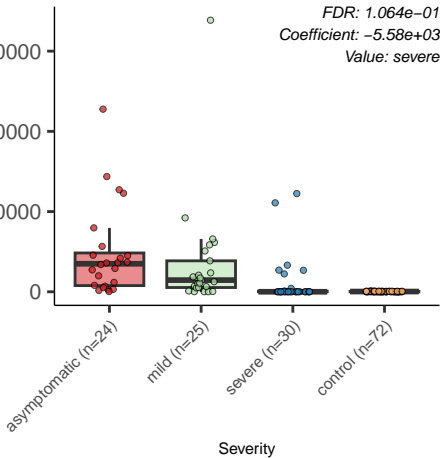
Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Bacteroidaceae.

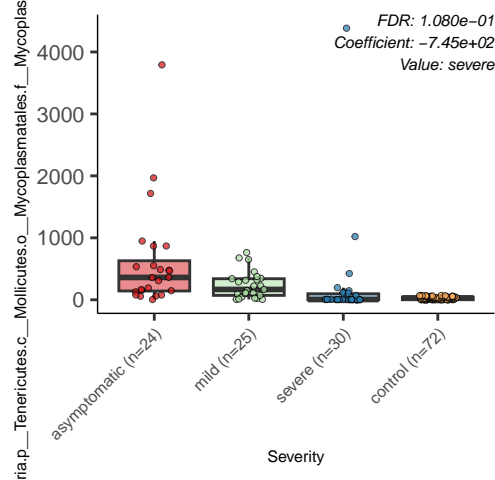


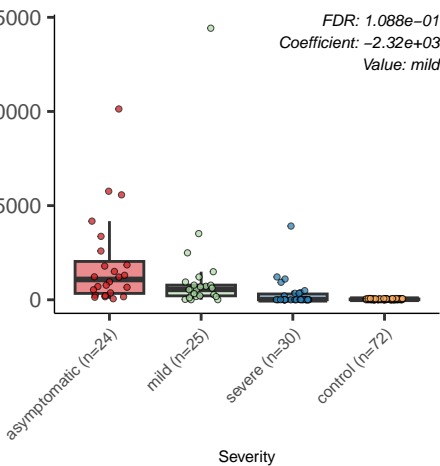


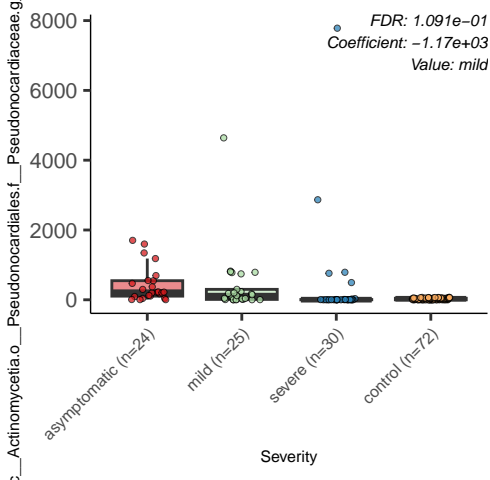




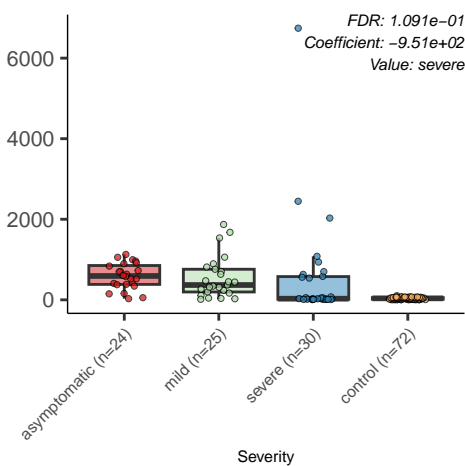


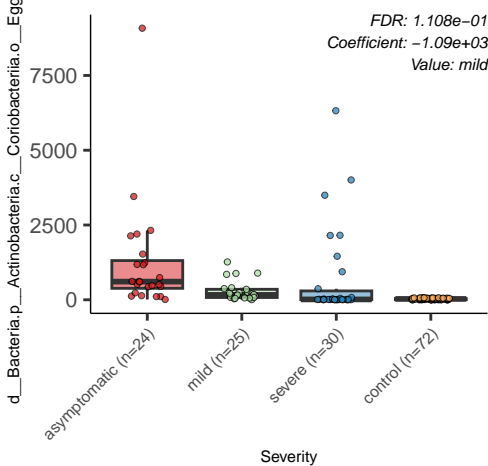


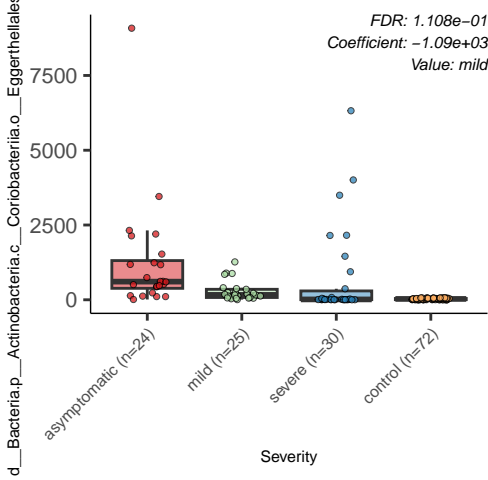




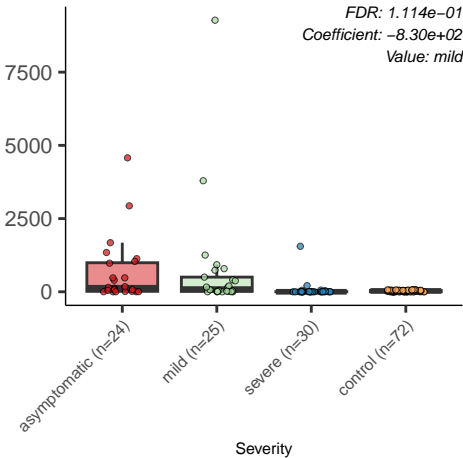
bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Vibrionales





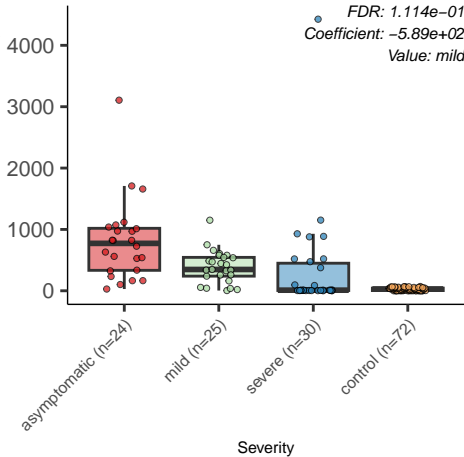


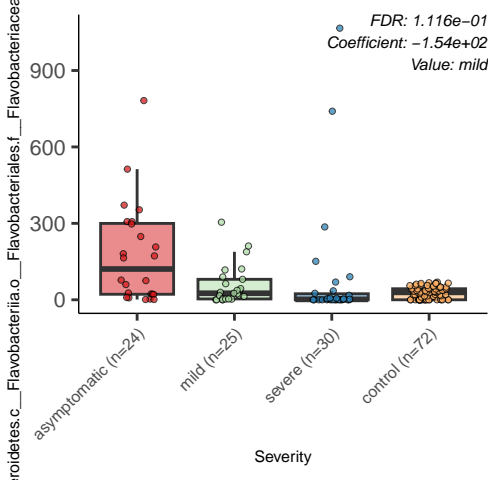
o_Proteobacteria.c_Gammaproteobacteria.o_Thiotrichales.f_Pi

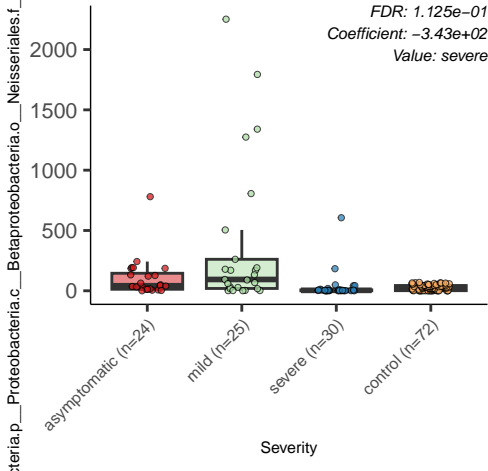


acteria.p__Firmicutes.c__Bacilli.o__Bacillales.f__Bacillaceae.g__Ba

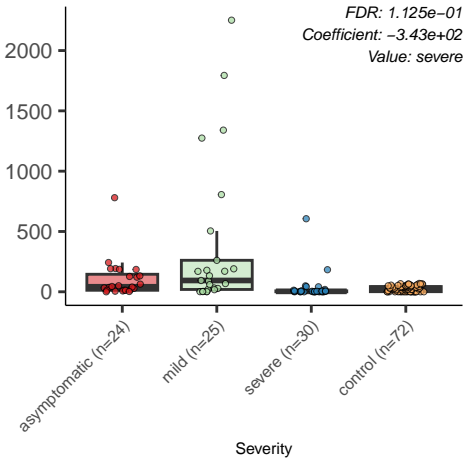
FDR: 1.114×10^{-1}
Coefficient: -5.89×10^2
Value: mild



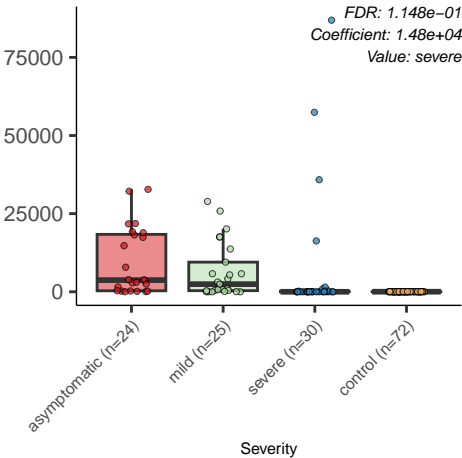


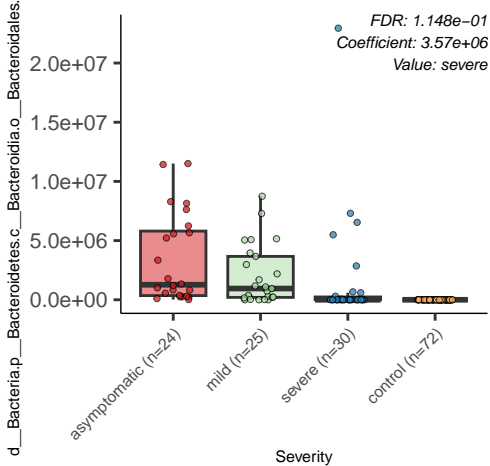


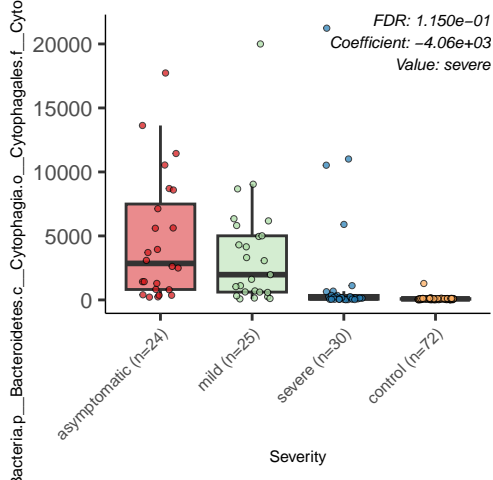
Proteobacteria.c__Betaproteobacteria.o__Neisseriales.f__Neisseria

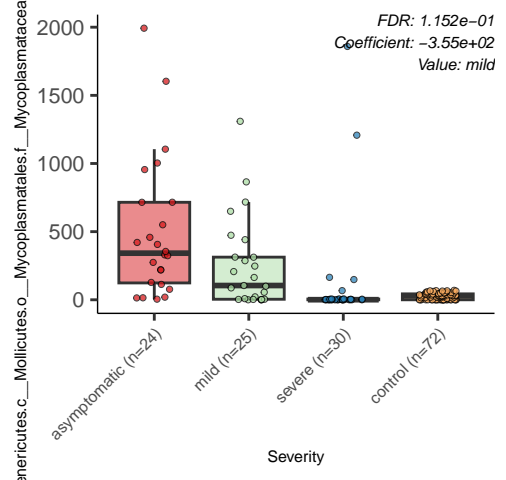


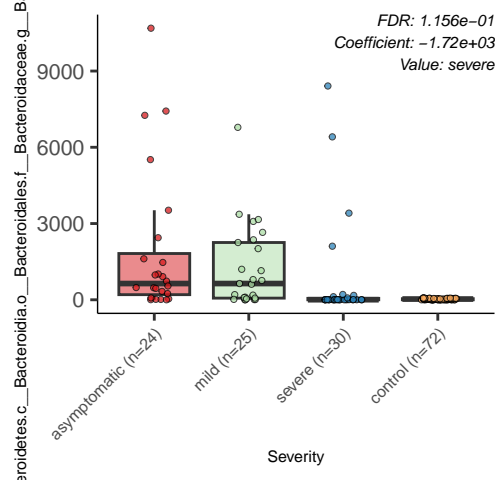
Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Prevotellaceae.g

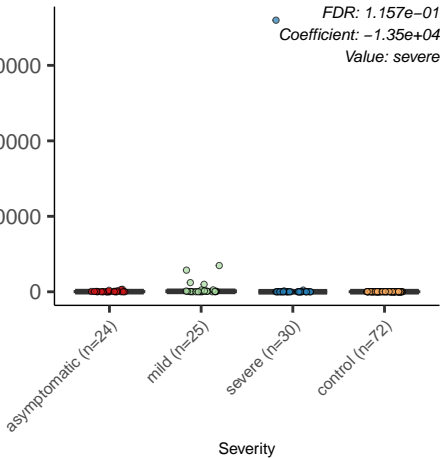


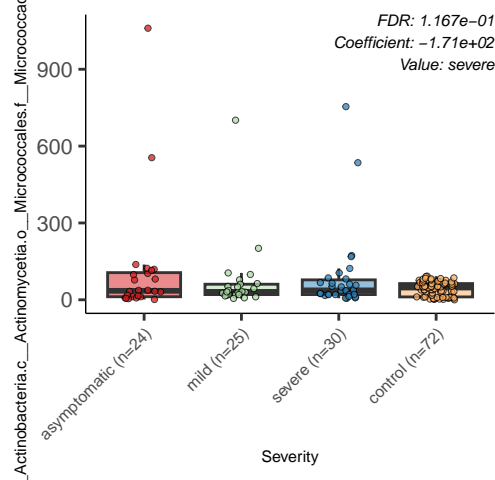






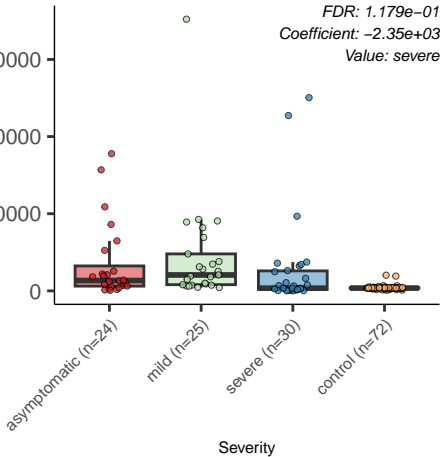




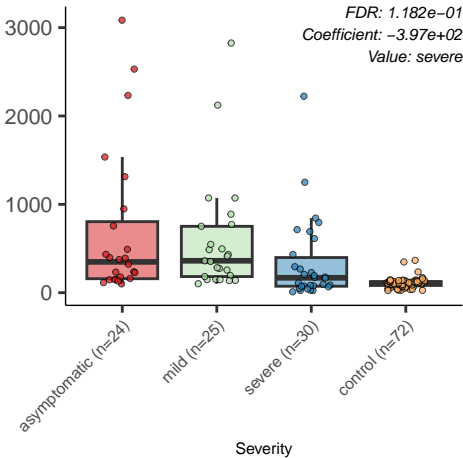


p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Clostridiaceae.g

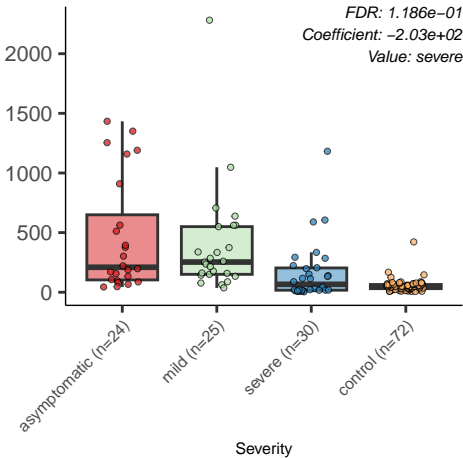
FDR: 1.179e-01
Coefficient: -2.35e+03
Value: severe



a.p._Proteobacteria.c_Alphaproteobacteria.o_Hyphomicrobiales.

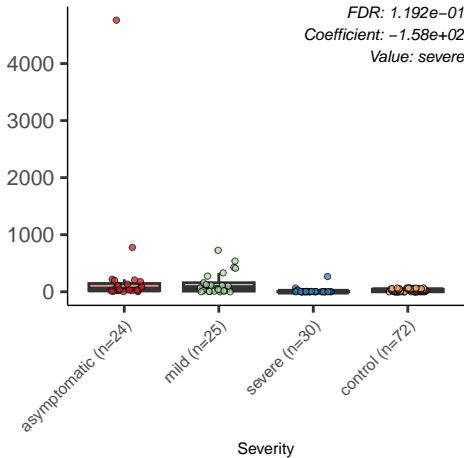


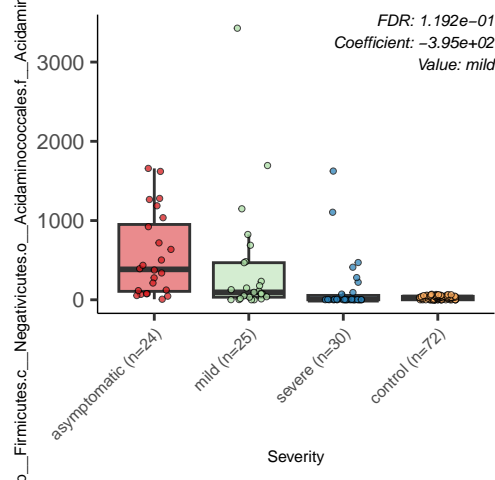
Bacteria.p__Proteobacteria.c__Alphaproteobacteria.o__Rickettsia



d_Bacteria.p_Spirochaetes.c_Spirochaetia.o_Spirochaetales.

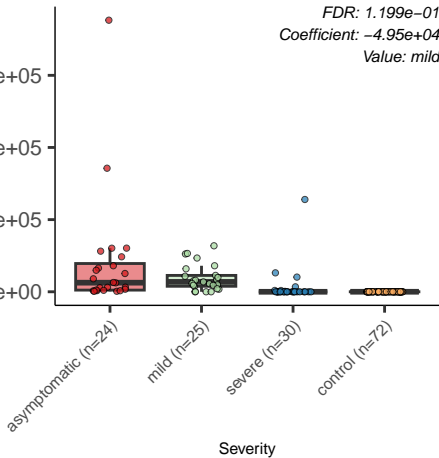
FDR: $1.192e-01$
Coefficient: $-1.58e+02$
Value: severe

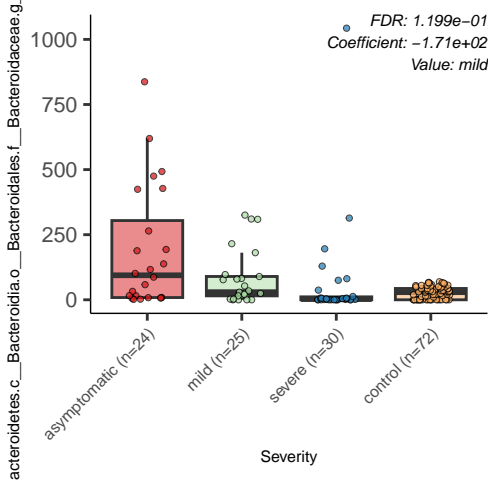


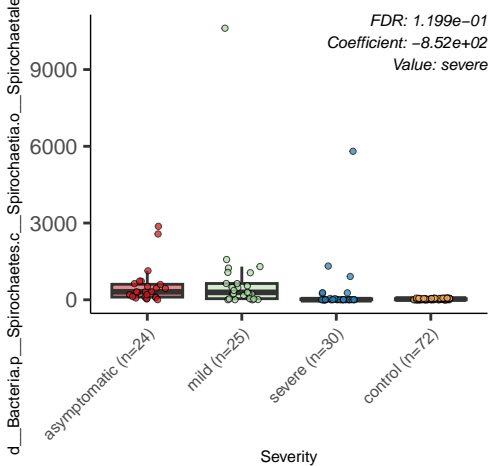


tes.c_Bacteroidia.o_Bacteroidales.f_Porphyromonadaceae.g

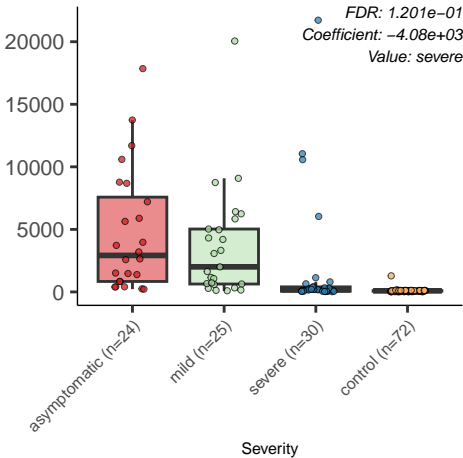
FDR: 1.199e-01
Coefficient: -4.95e+04
Value: mild

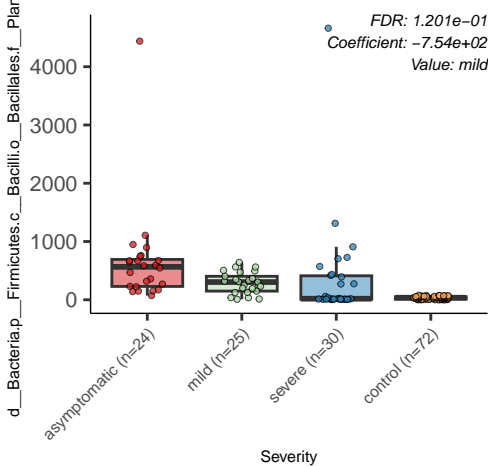


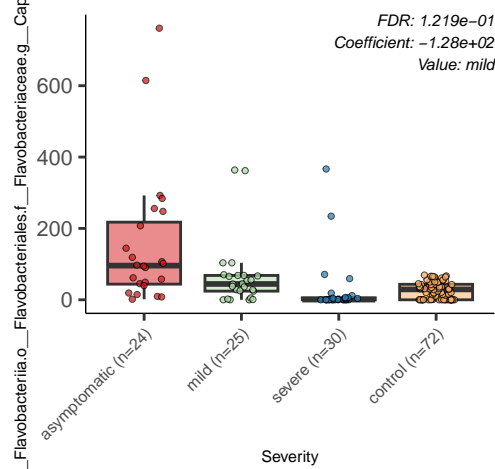




d_Bacteria.p_Bacteroidetes.c_Cytophagia.o_Cytophagales.

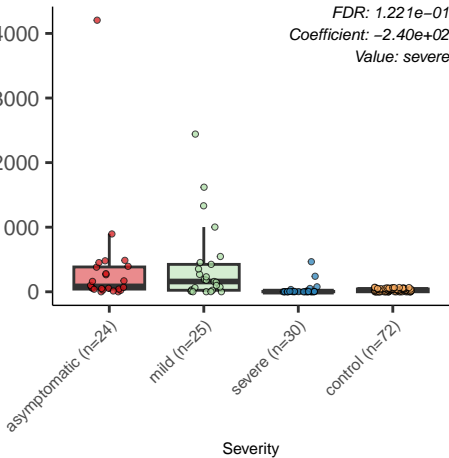




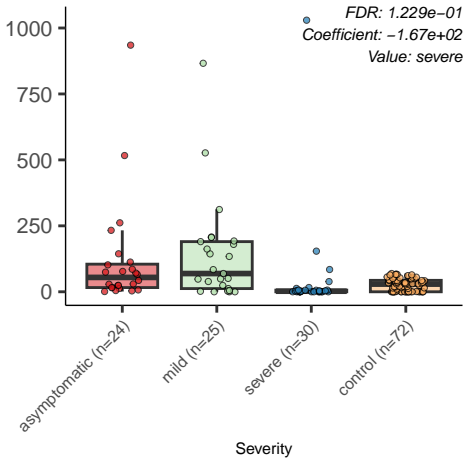


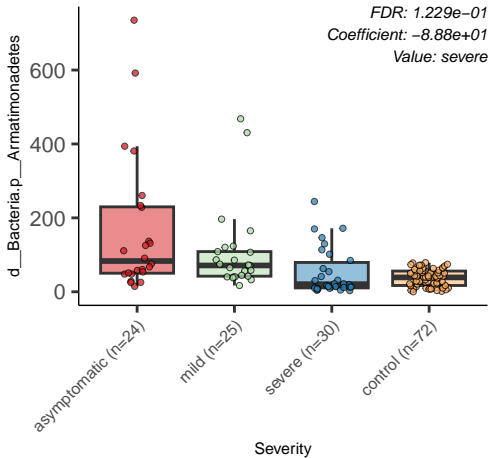
oteobacteria.c__Betaproteobacteria.o__Neisseriales.f__Neisseriace

FDR: 1.221e-01
Coefficient: -2.40e+02
Value: severe

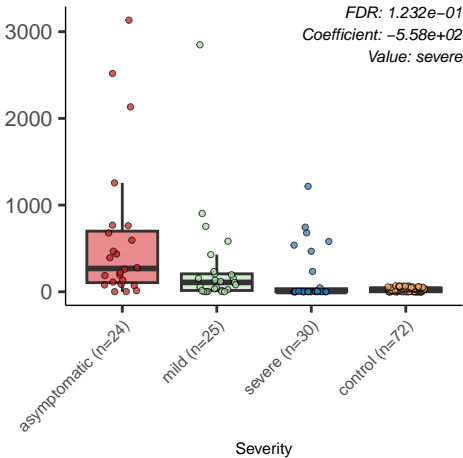


.c__Flavobacteriia.o__Flavobacteriales.f__Weeksellaceae.g__Eliza

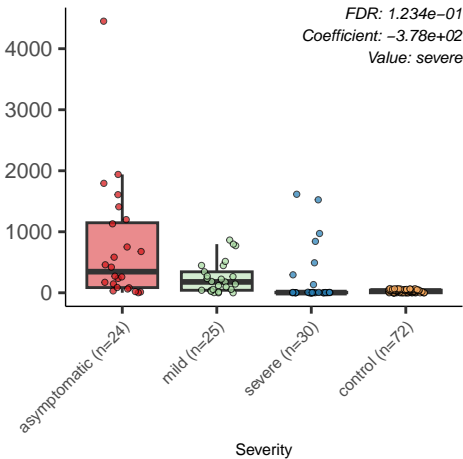




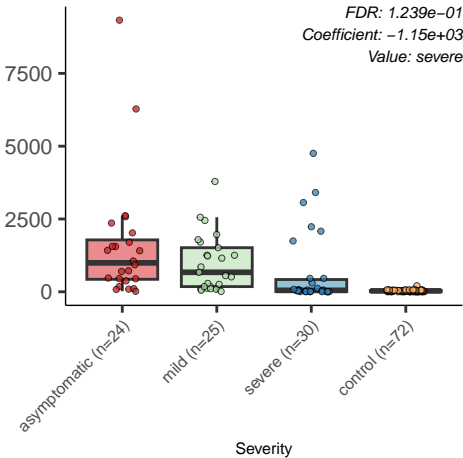
inobacteria.c_Actinomycetia.o_Actinomycetales.f_Actinomycetia

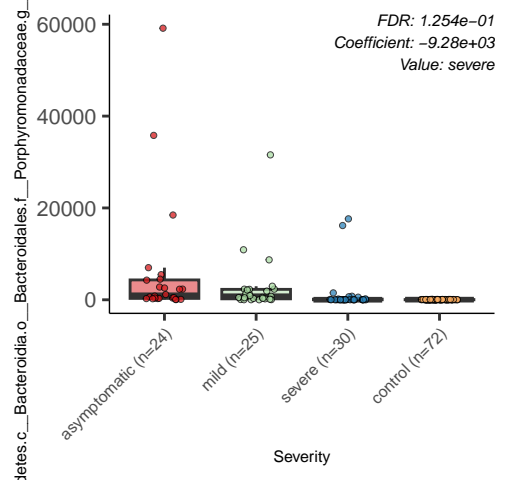


Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g

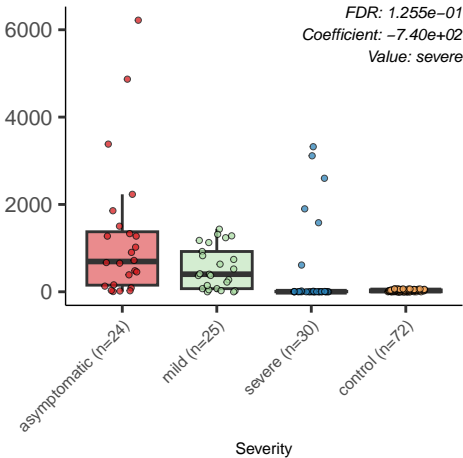


bacteria.p__Firmicutes.c__Clostridia.o__Eubacteriales.f__Oscillospira

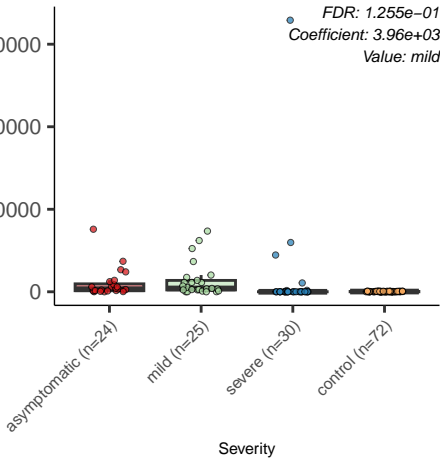




rmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g__Bu



bacteria.c__Betaproteobacteria.o__Neisseriales.f__Neisseriaceae.g



Firmicutes.c__Clostridia.o__Eubacteriales.f__Clostridiaceae.g__

1000

500

0

FDR: 1.268e-01
Coefficient: -1.98e+02
Value: severe

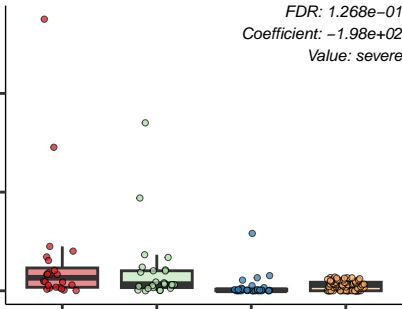
asymptomatic (n=24)

mild (n=25)

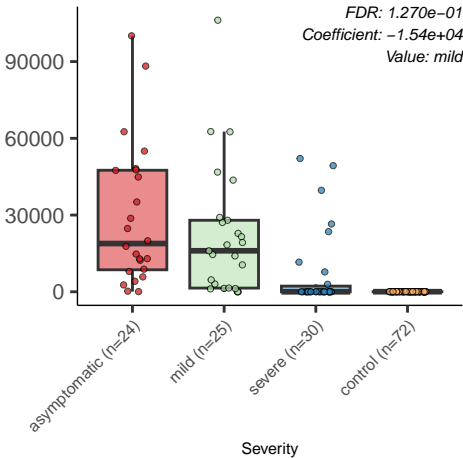
severe (n=30)

control (n=72)

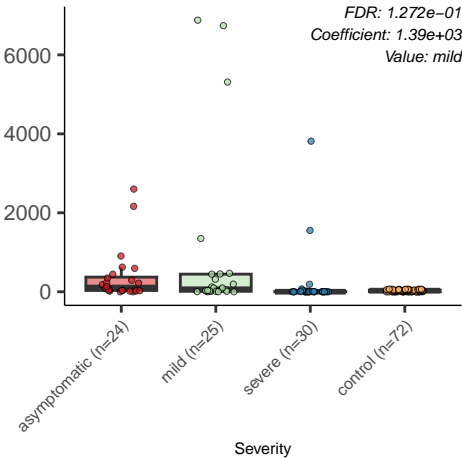
Severity



o_Firmicutes.c__Negativicutes.o__Veillonellales.f__Veillonellaceae.

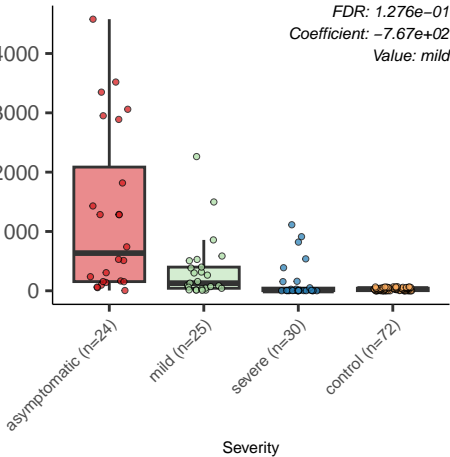


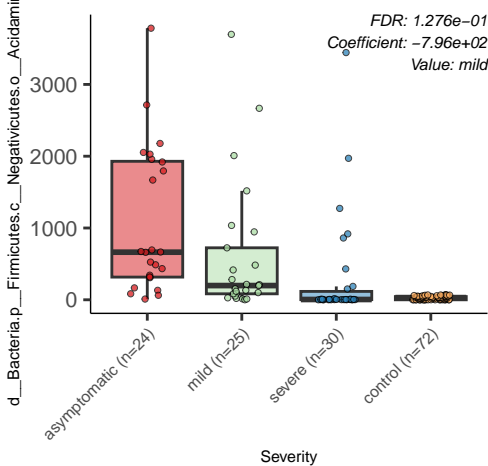
Gammaproteobacteria.o_Pasteurellales.f_Pasteurellaceae.g



d_Bacteria.p_Chloroflexi.c_Dehalococcoid

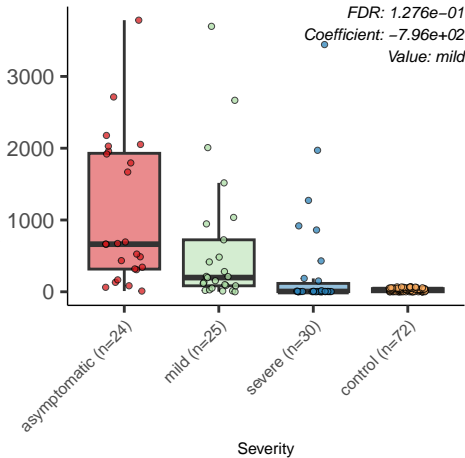
FDR: 1.276e-01
Coefficient: -7.67e+02
Value: mild

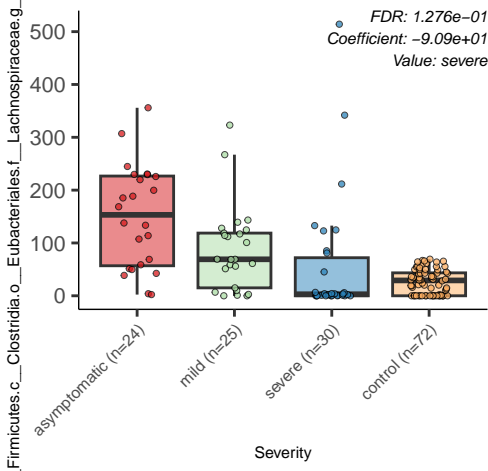




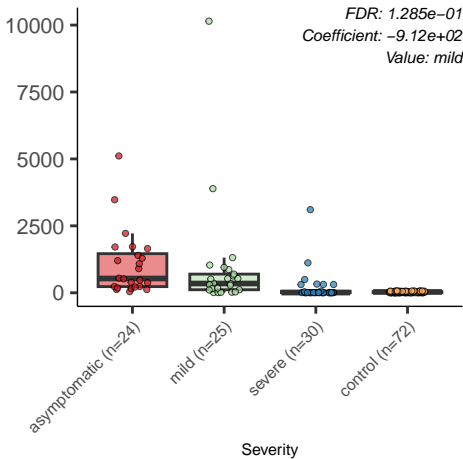
Bacteria.p_Firmicutes.c_Negativicutes.o_Acidaminococcales.f

FDR: 1.276e-01
Coefficient: -7.96e+02
Value: mild

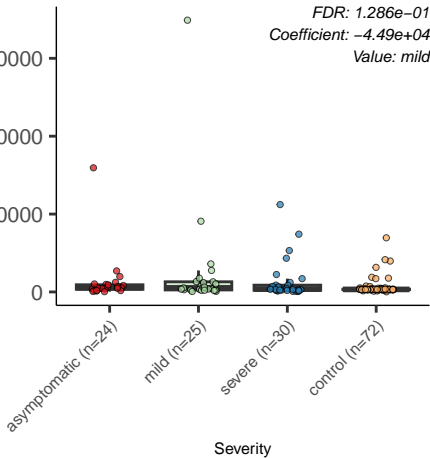




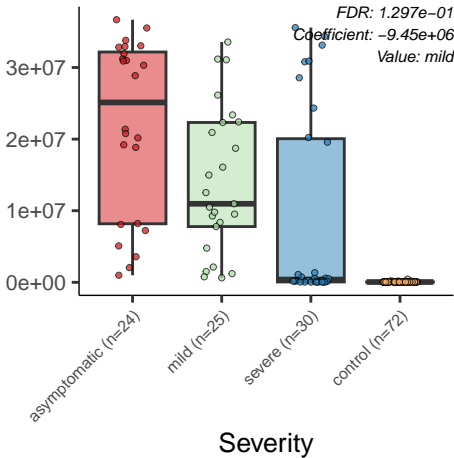
Bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Thiotricha



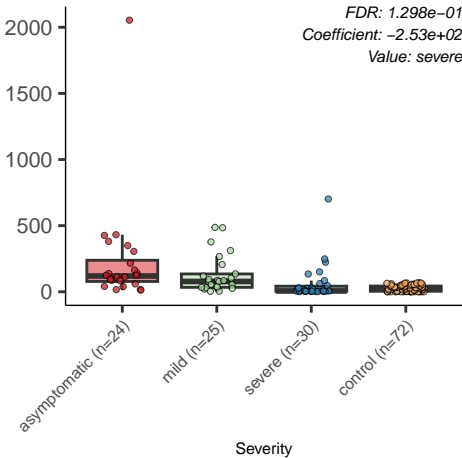
d__Bacteria.p_Actinobacteria.c_Actinomycetia.o_Coryn

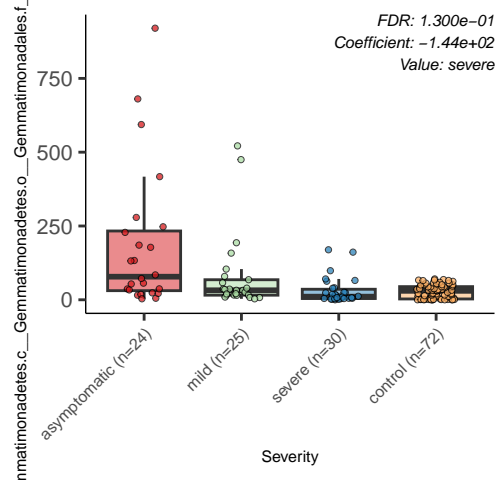


d_Bacteria

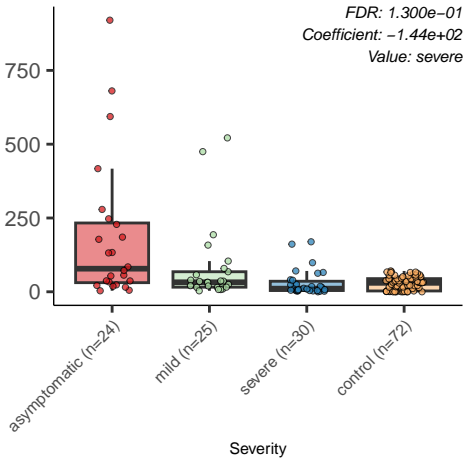


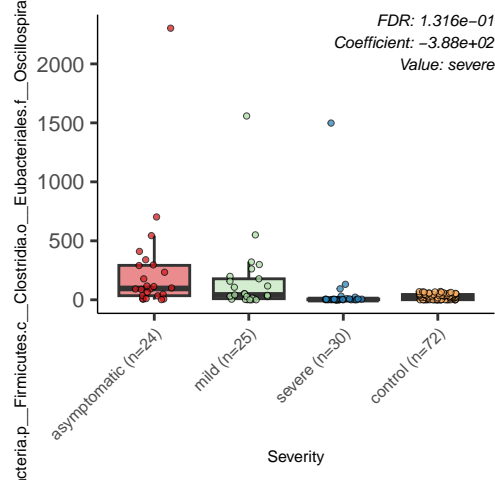
d_Bacteria.p_Firmicutes.c_Tissierella.g_Ezakiella.s_Eza

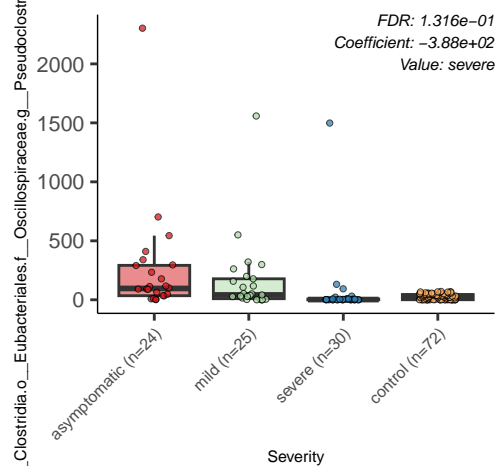




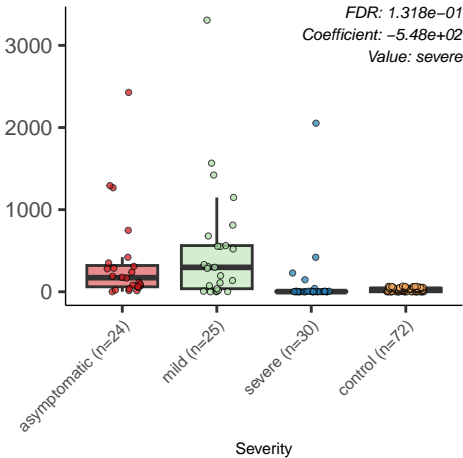
c_Gemmatimonadetes.o_Gemmatimonadales.f_Gemmatimonad

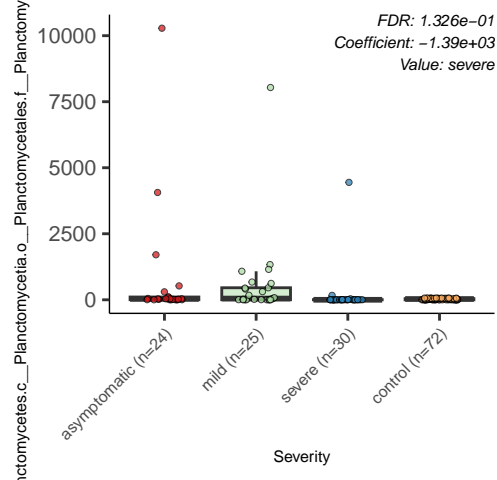


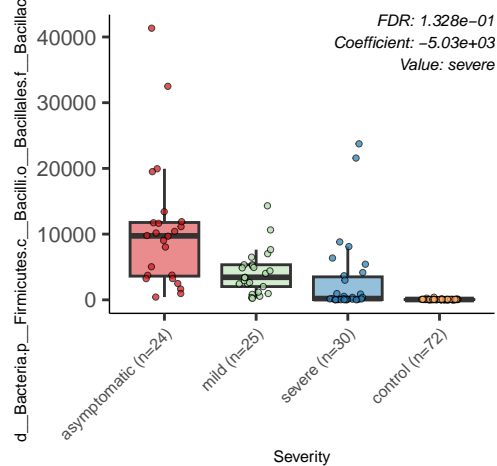




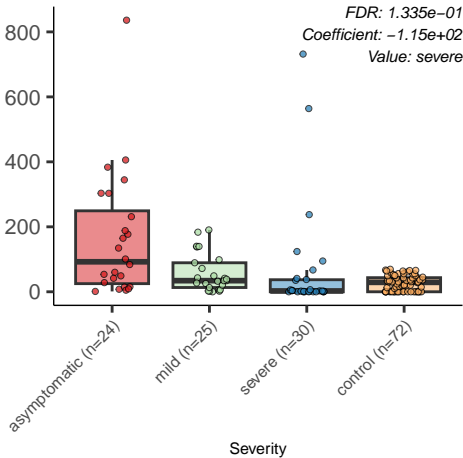
tes.c_Flavobacteriia.o_Flavobacteriales.f_Weeksellaceae.g_CH

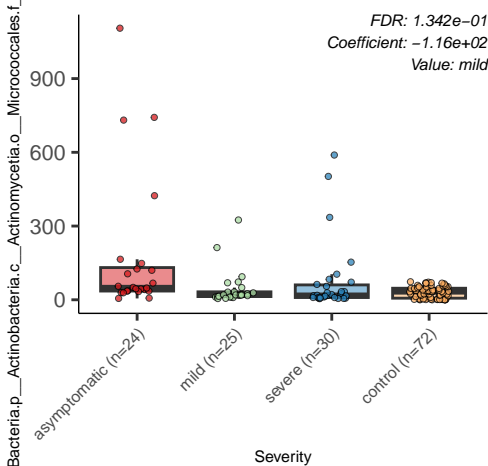


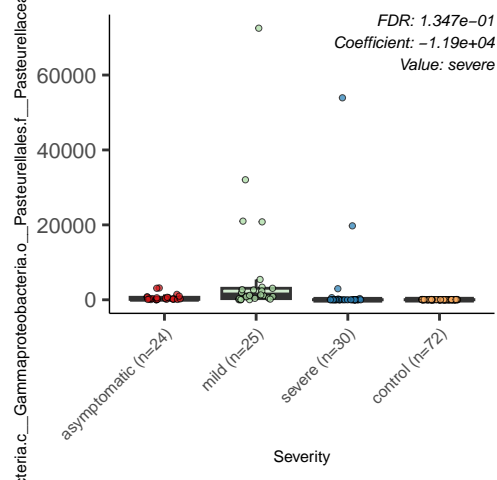




bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Thermoactinomyces

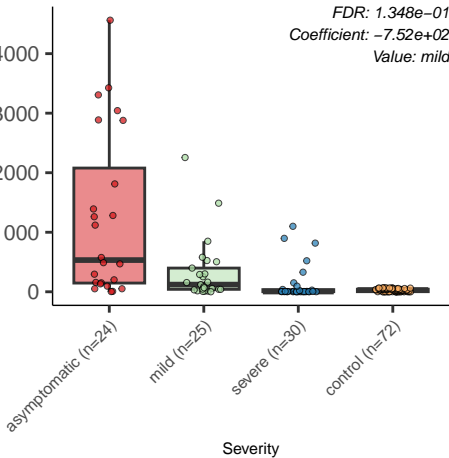


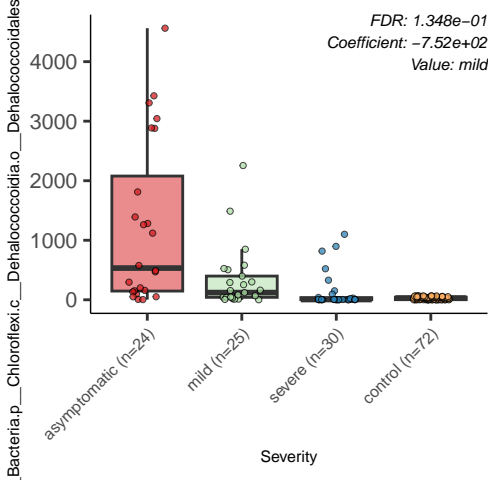


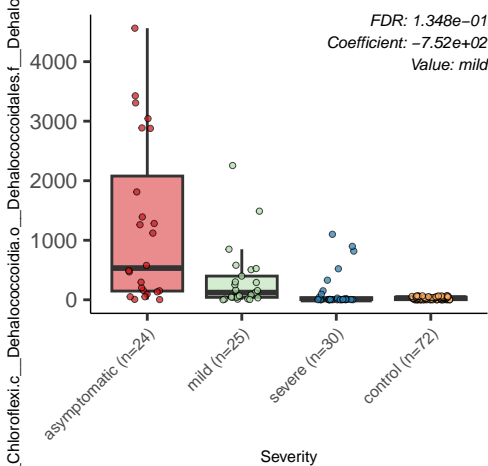


d_Bacteria.p__Chloroflexi.c__Dehalococcoidia.o__Dehalo

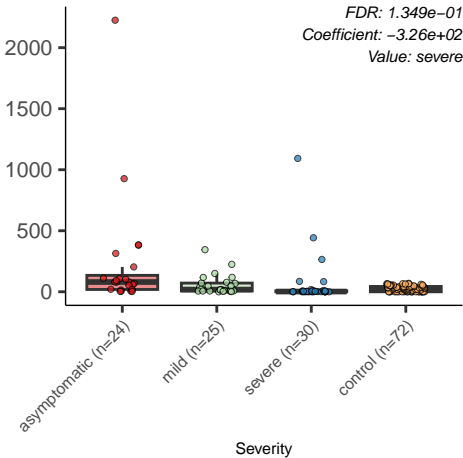
FDR: 1.348e-01
Coefficient: -7.52e+02
Value: mild

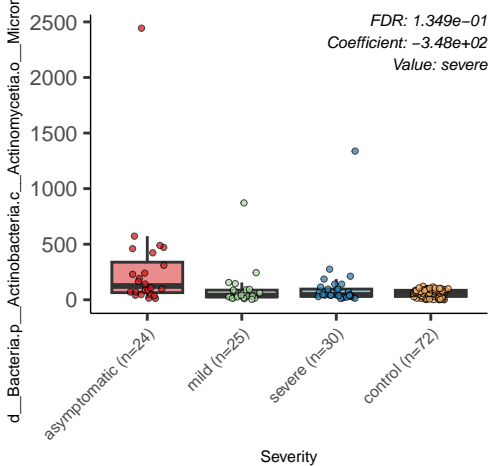


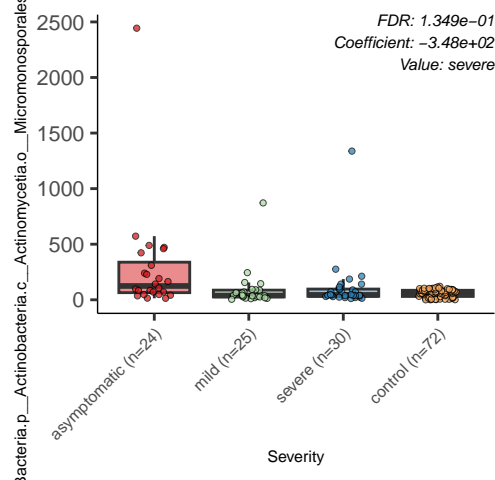




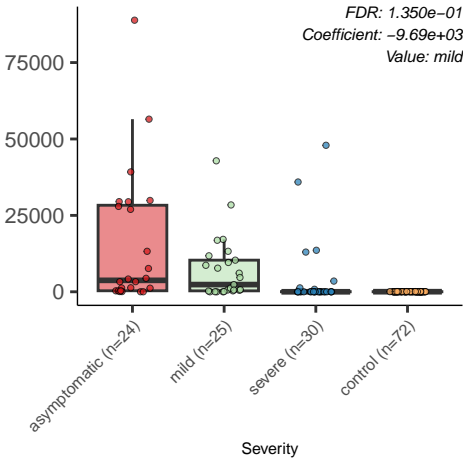
gativicutes.o__Acidaminococcales.f__Acidaminococcaceae.g__Pha

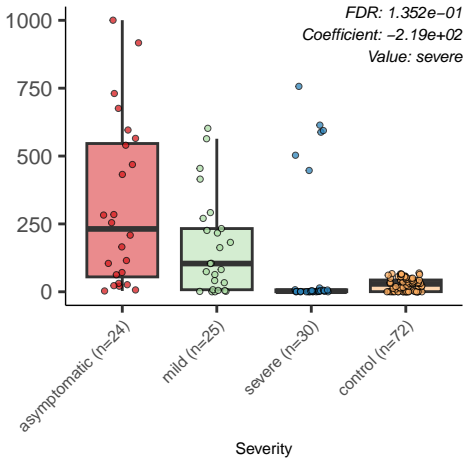


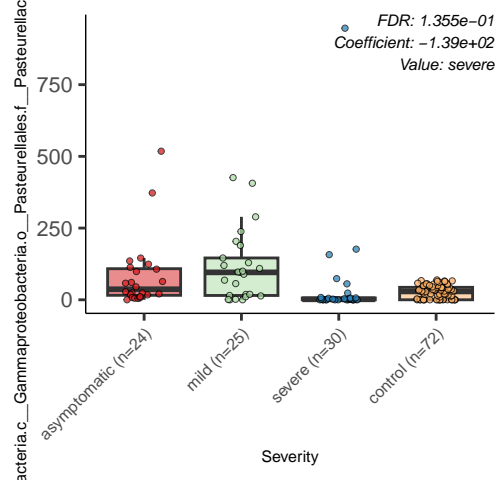


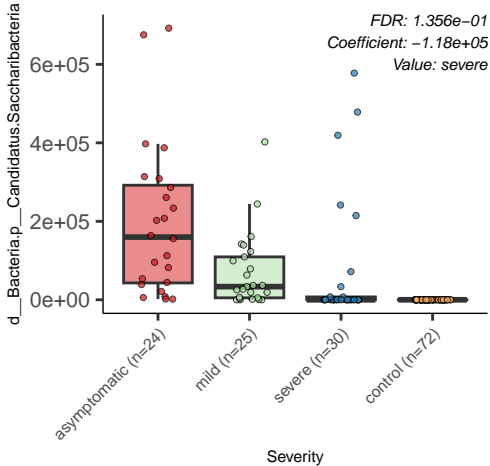


Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Bacteroidaceae.

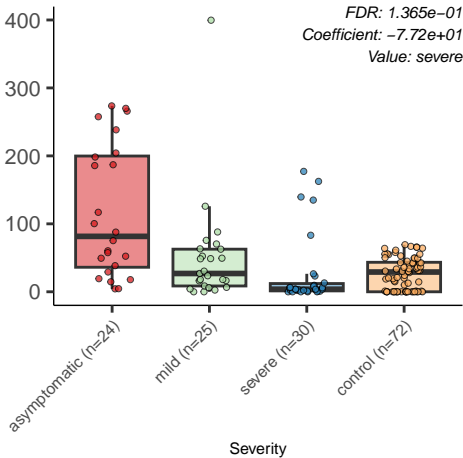


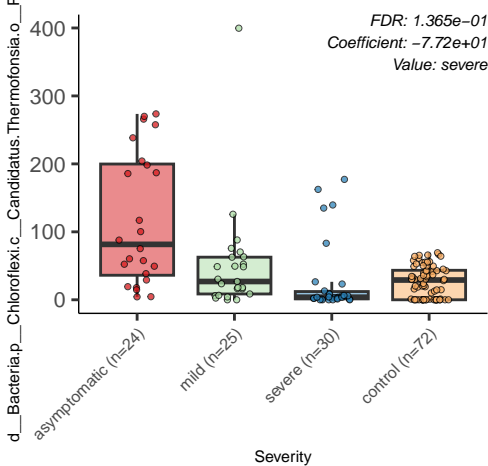




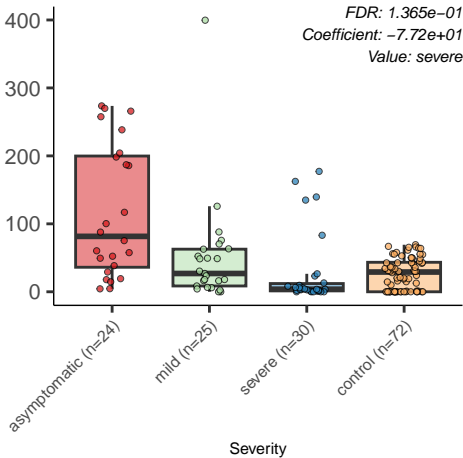


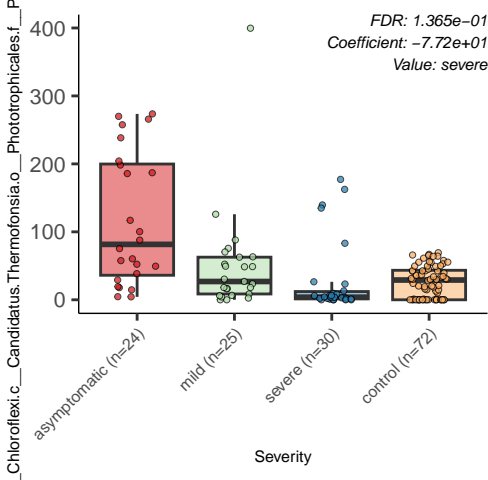
d_Bacteria.p__Chloroflexi.c__Candidatus.Thermoflexus



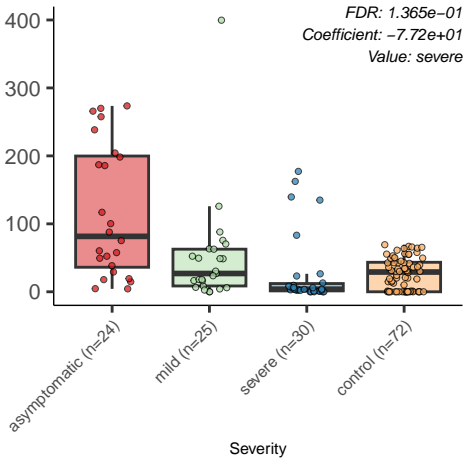


bacteria.p__Chloroflexi.c__Candidatus.Thermofonsia.o__Phototrophic

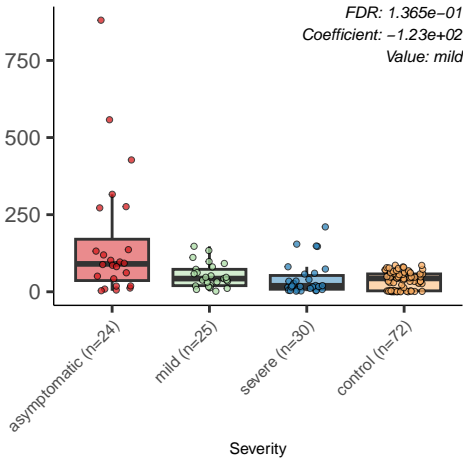


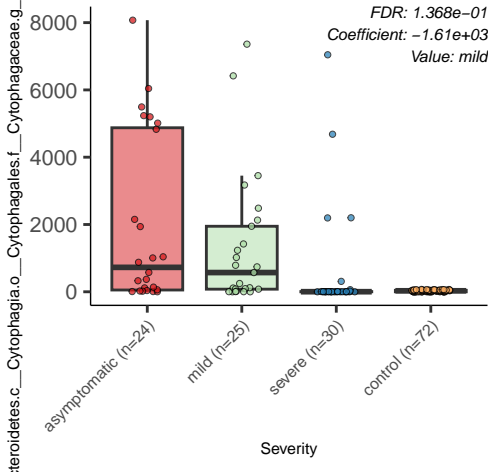


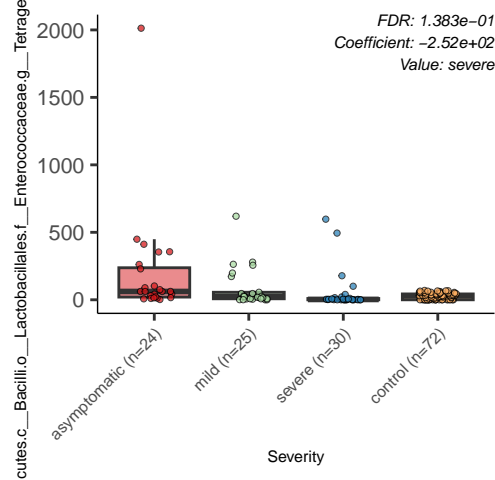
andidatus.Thermofonsia.o__Phototrophicales.f__Phototrophicaceae.



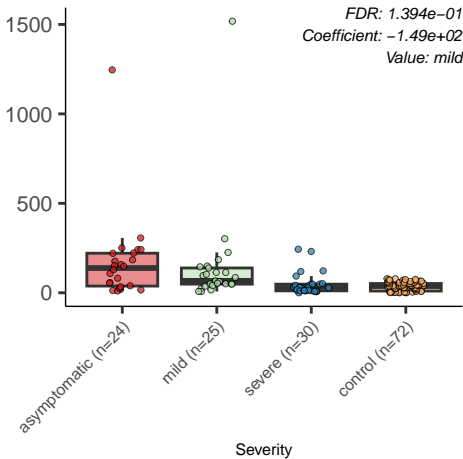
eria.p_Actinobacteria.c_Actinomycetia.o_Micrococcales.f_Micro

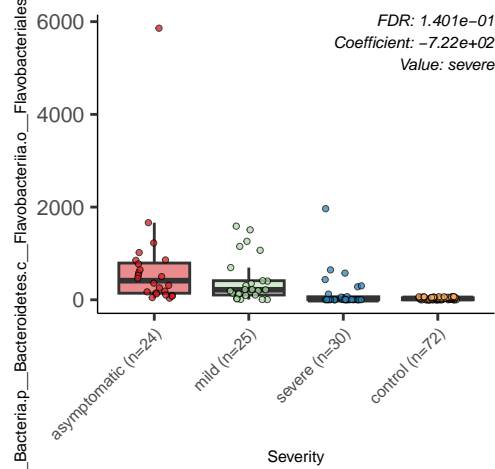




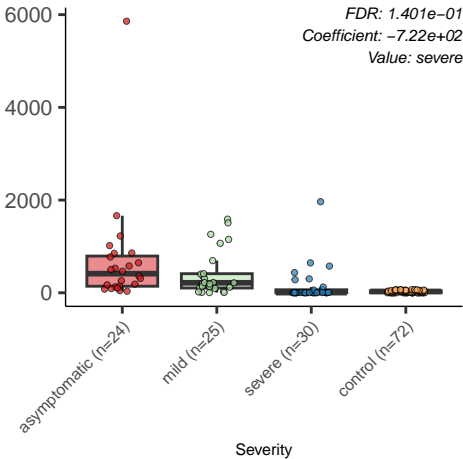


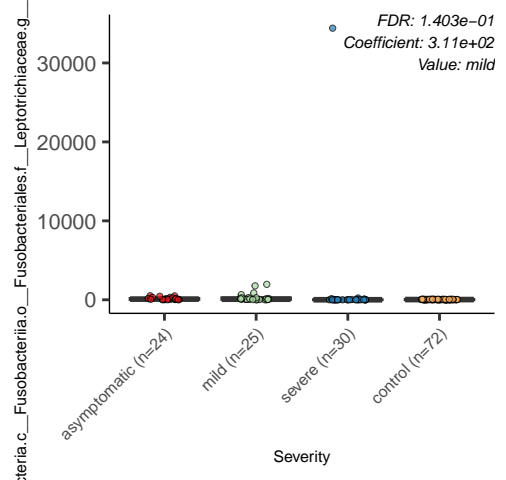
ia.p__Proteobacteria.c__Betaproteobacteria.o__Burkholderiales.f

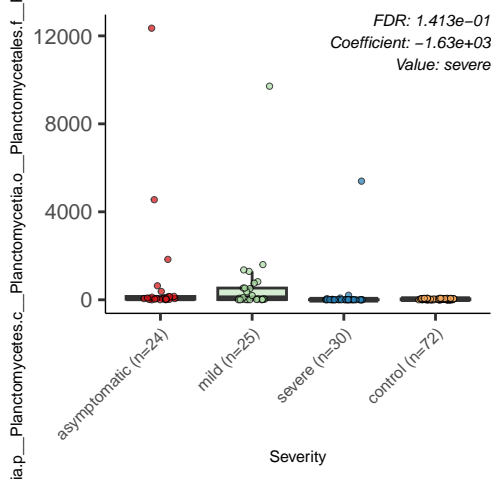




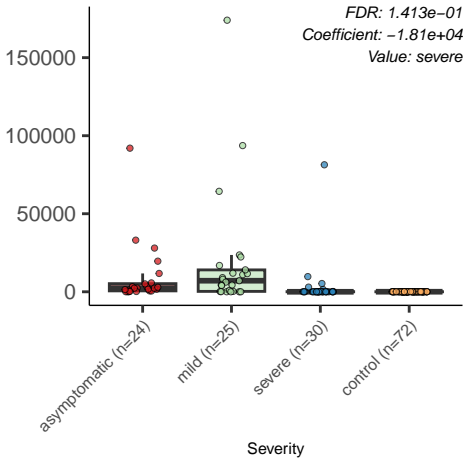
a.p._Bacteroidetes.c_Flavobacteriia.o_Flavobacteriales.f_Blatta



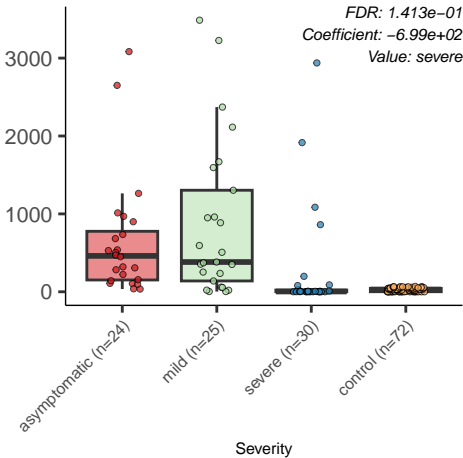




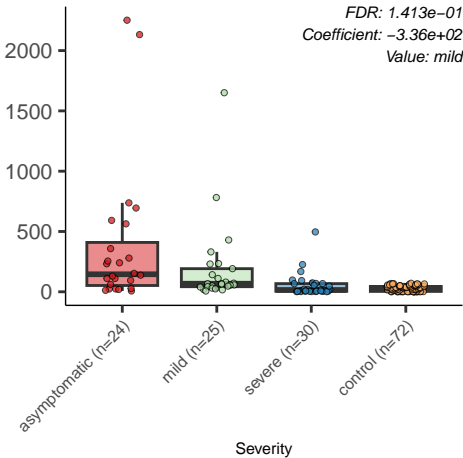
Proteobacteria.c__Betaproteobacteria.o__Neisseriales.f__Neisseria



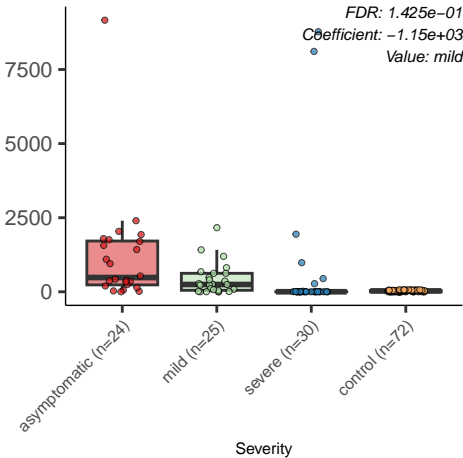
bacteria.c__Fusobacteriia.o__Fusobacteriales.f__Leptotrichiaceae

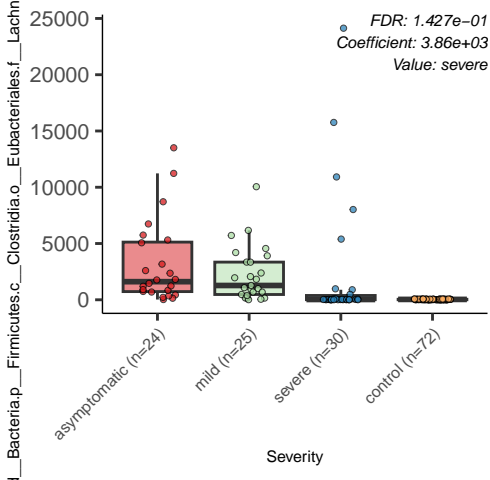


Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Eubacteri



Bacteroidetes.c_Flavobacteriia.o_Flavobacteriales.f_Weeksellaceae





d_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Alicyc

FDR: $1.442e-01$
Coefficient: $-3.47e+02$
Value: severe

2000

1000

0

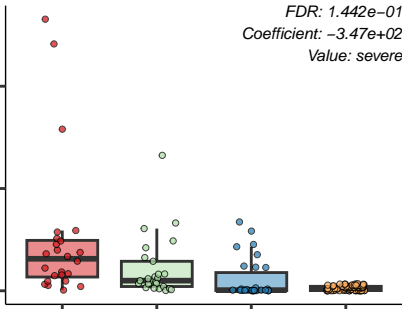
asymptomatic (n=24)

mild (n=25)

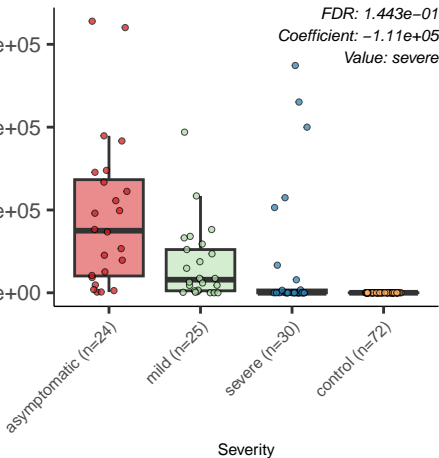
severe (n=30)

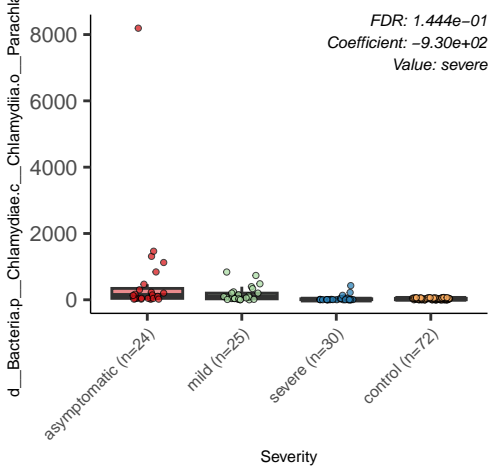
control (n=72)

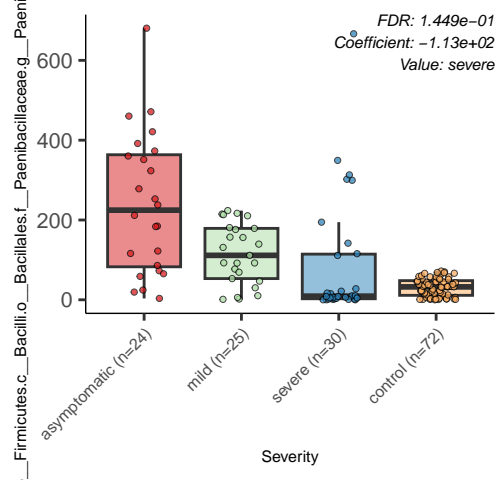
Severity



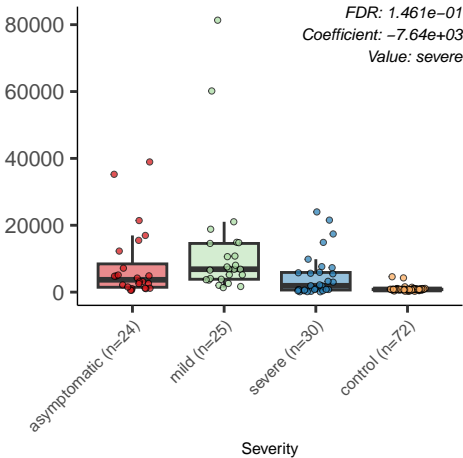
d__Bacteria.p__Candidatus.Saccharibacteria.c__Candidatus.S





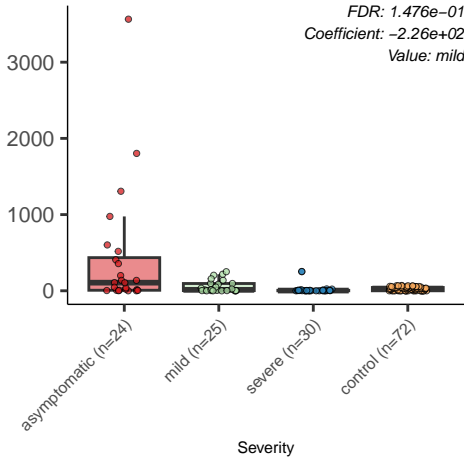


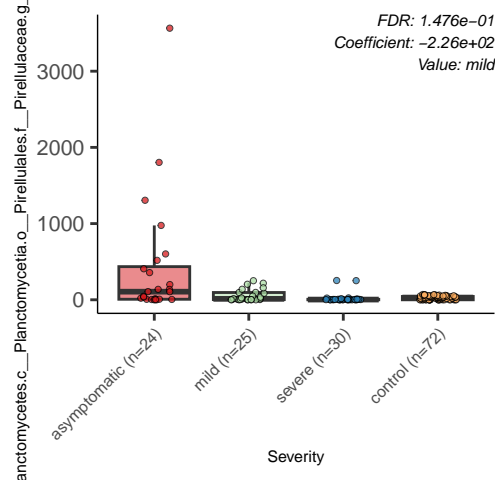
a.p._Proteobacteria.c._Gammaproteobacteria.o._Pasteurellales.f.

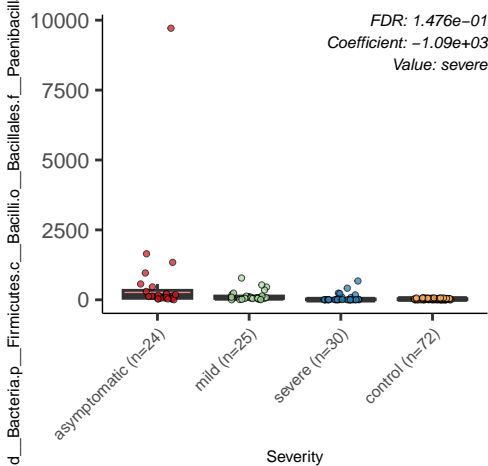


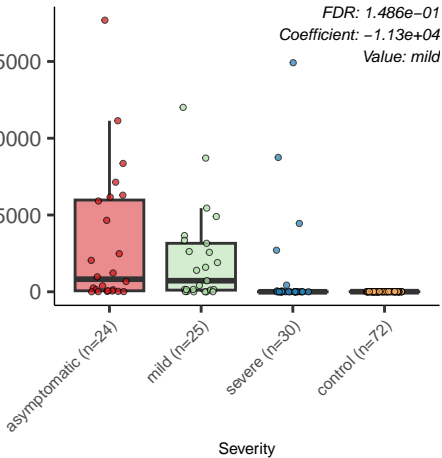
Bacteria.p__Planctomycetes.c__Planctomycetia.o__Pirellulales.f__F

FDR: 1.476e-01
Coefficient: -2.26e+02
Value: mild

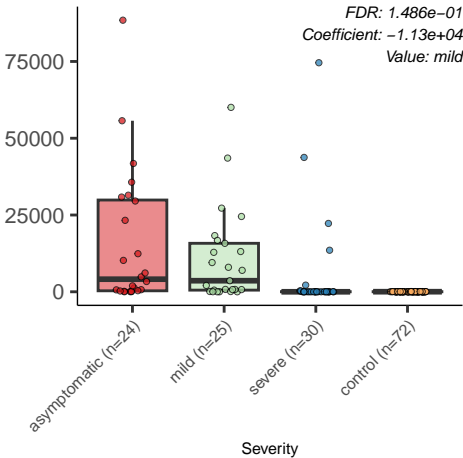


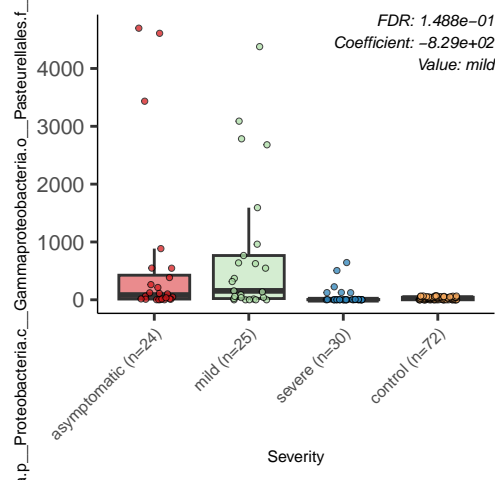






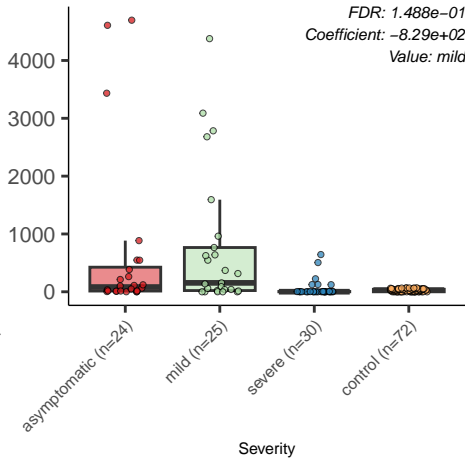
cteroidetes.c__Bacteroidia.o__Bacteroidales.f__Barnesiellaceae.g

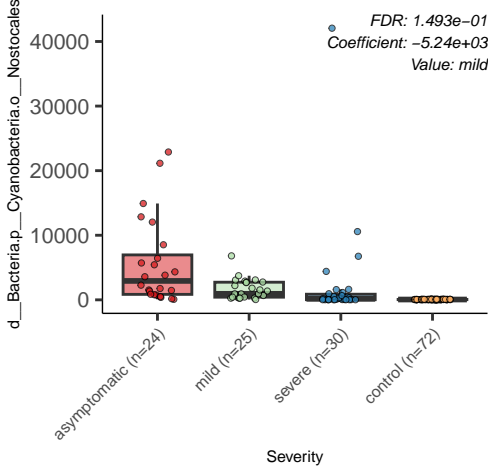


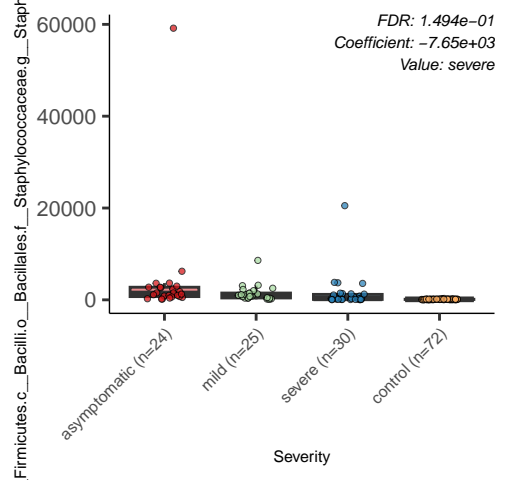


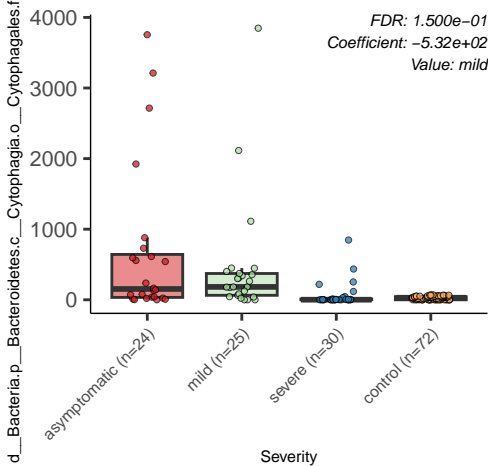
acteria.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurella

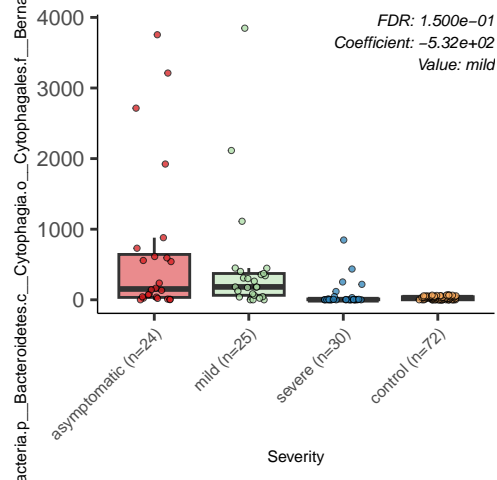
FDR: 1.488e-01
Coefficient: -8.29e+02
Value: mild



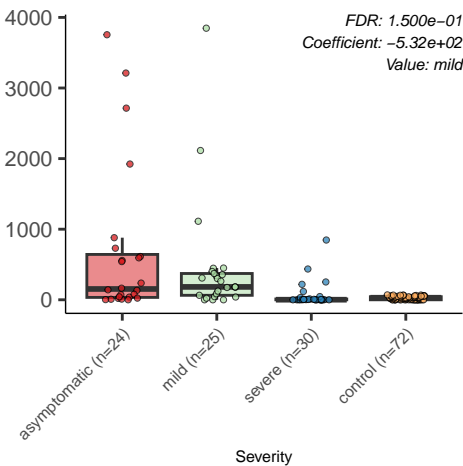


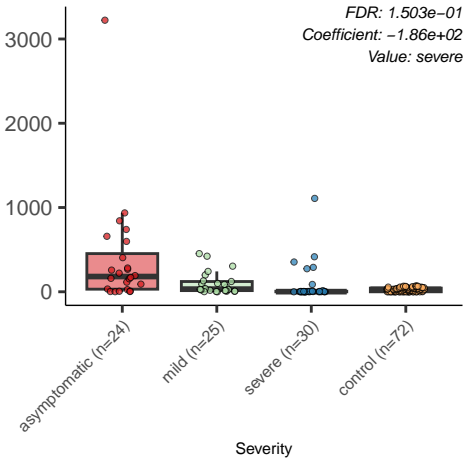


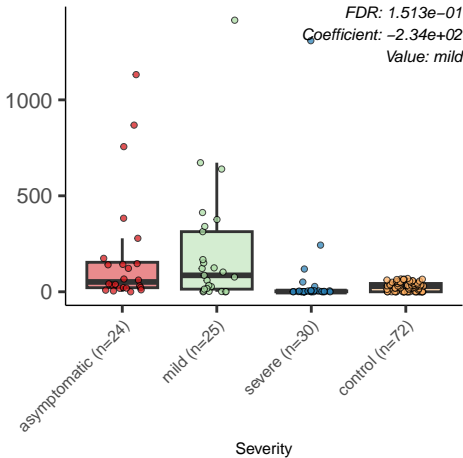


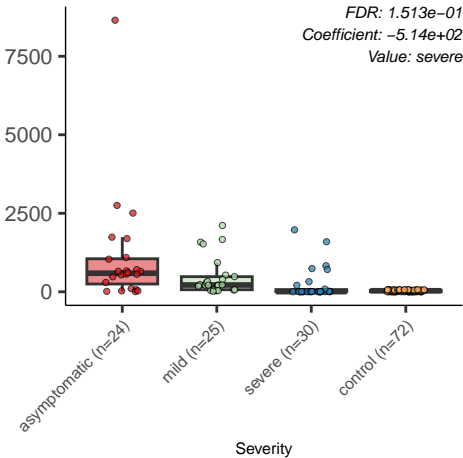


Bacteroidetes.c__Cytophagia.o__Cytophagales.f__Bernardetiaceae.



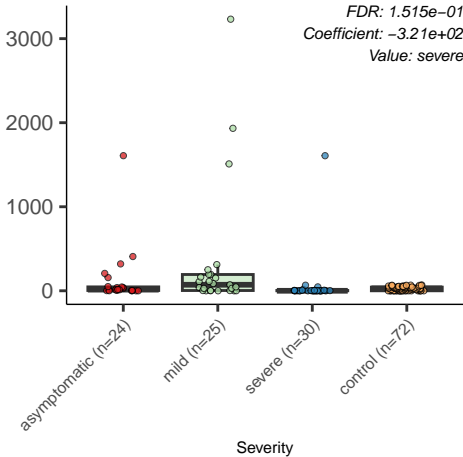


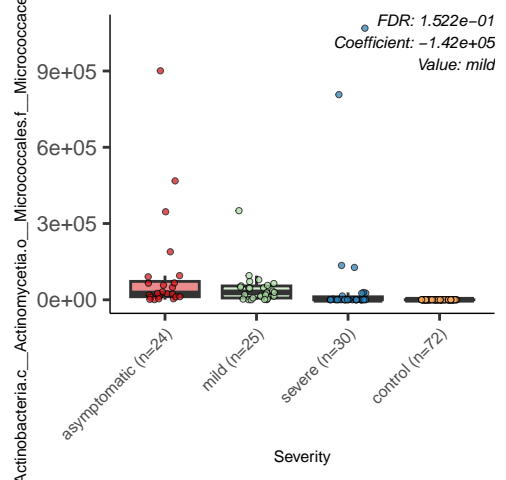


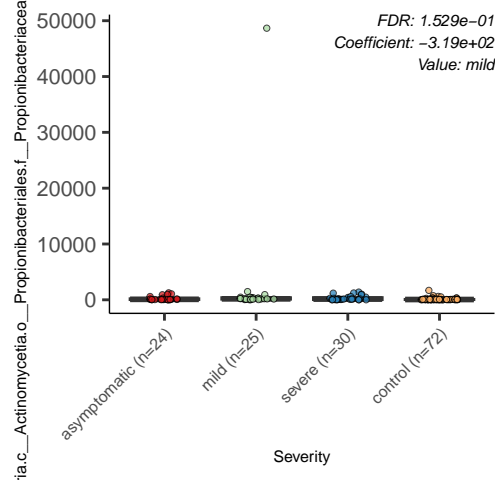


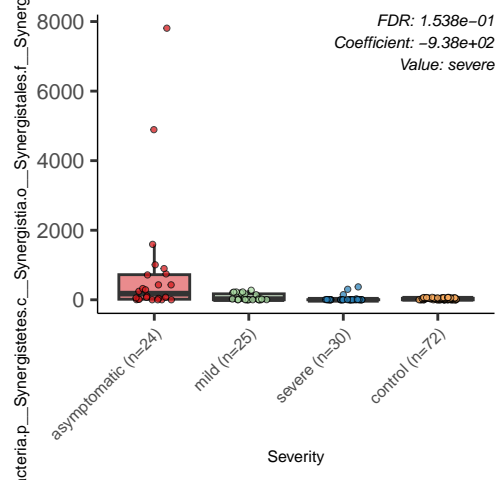
Proteobacteria.c__Betaproteobacteria.o__Neisseriales.f__Neisseria

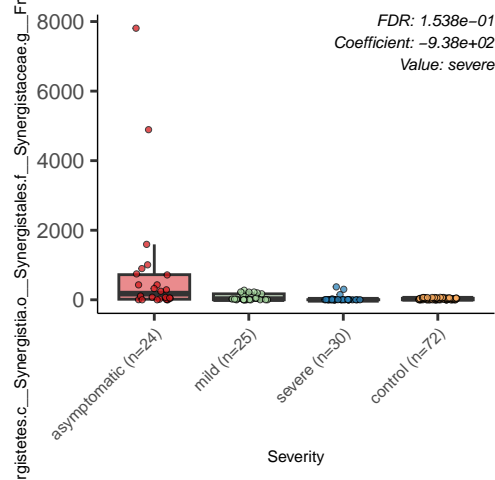
FDR: $1.515e-01$
Coefficient: $-3.21e+02$
Value: severe

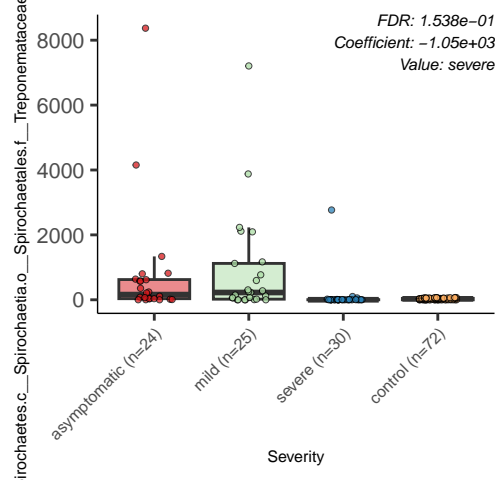


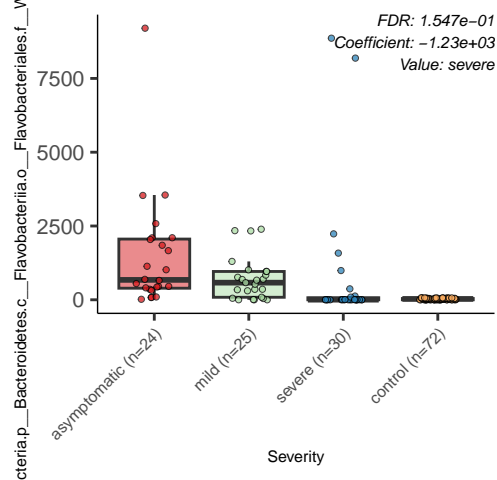












Bacteria.p_Firmicutes.c_Tissierellia.o_Tissierellales.f_Peptoni

FDR: 1.548e-01
Coefficient: -7.45e+02
Value: mild

6000
4000
2000
0

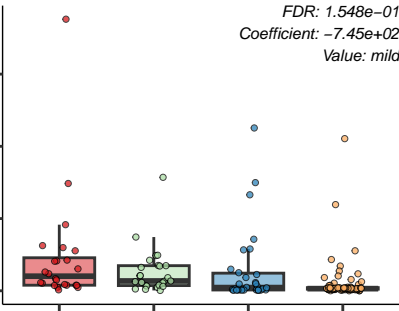
asymptomatic (n=24)

mild (n=25)

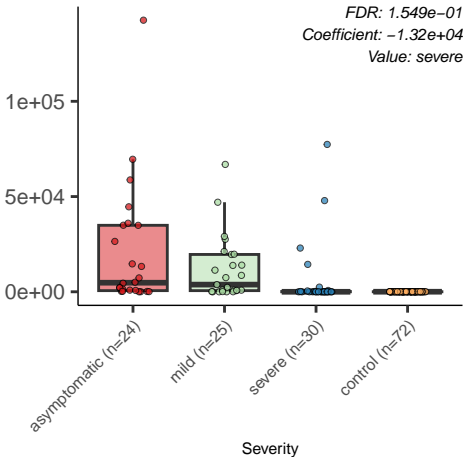
severe (n=30)

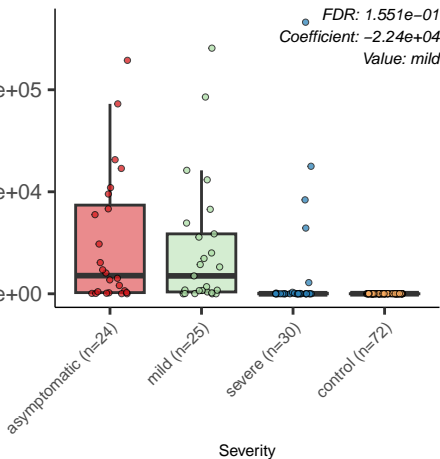
control (n=72)

Severity

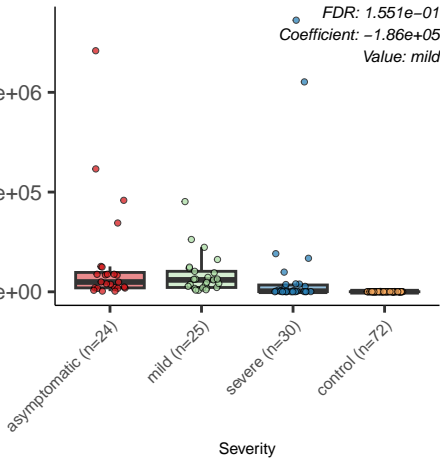


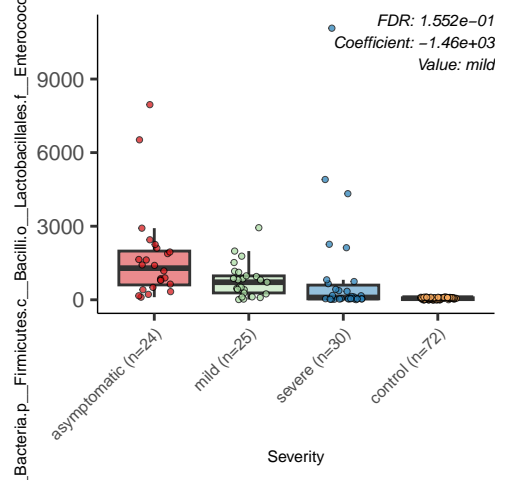
d_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f.



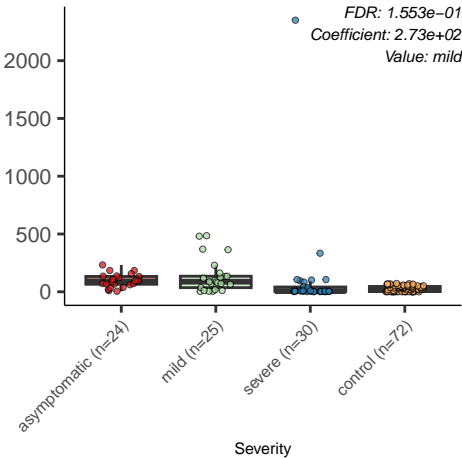


d_Bacteria.p_Actinobacteria.c_Actinomycetia.o_Micrococcales

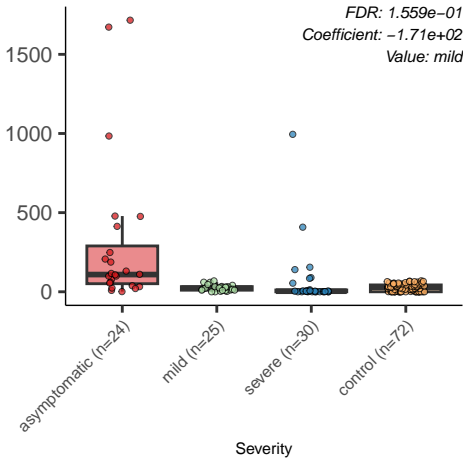




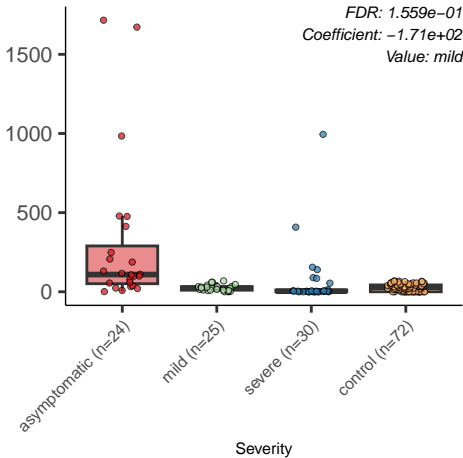
ria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobactera

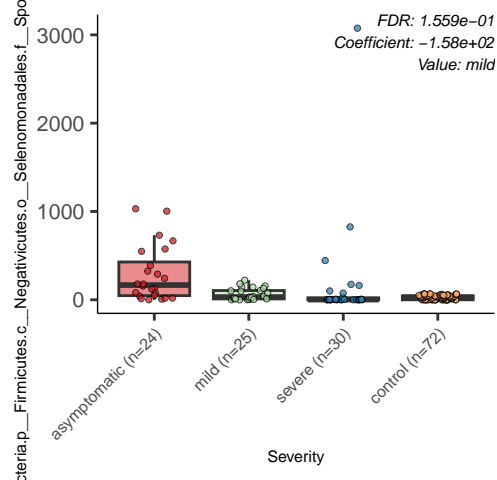


eria.p_Actinobacteria.c_Coriobacteriia.o_Eggerthellales.f_Egg

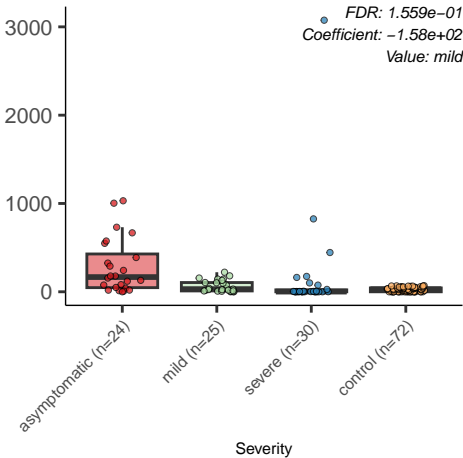


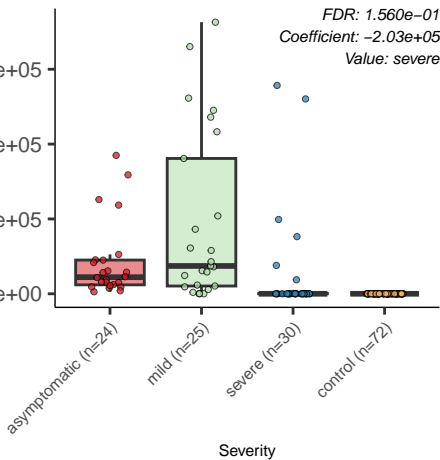
bacteria.c__Coriobacteriia.o__Eggerthellales.f__Eggerthellaceae.g



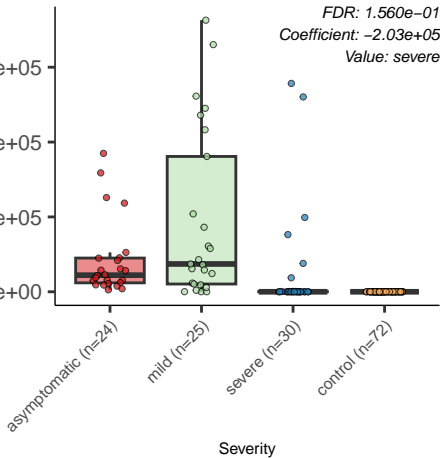


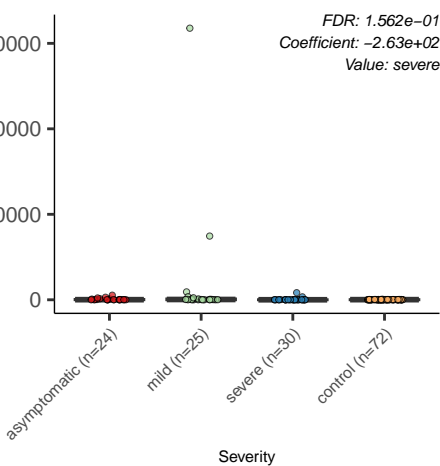
micutes.c__Negativicutes.o__Selenomonadales.f__Sporomusaceae

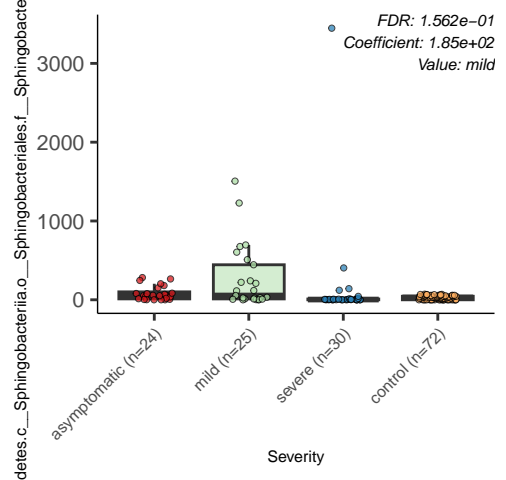


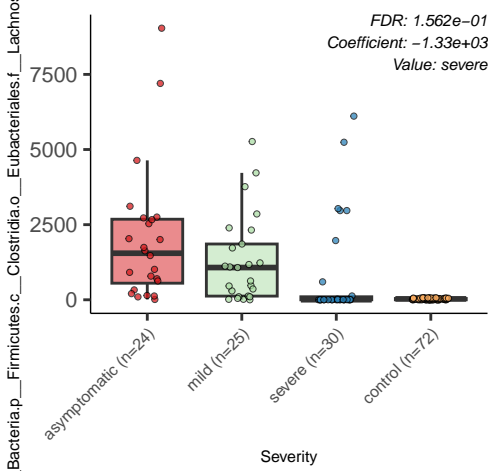


ia.p__Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Porphyromon

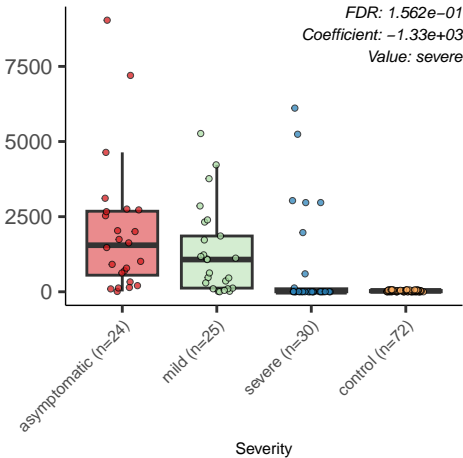


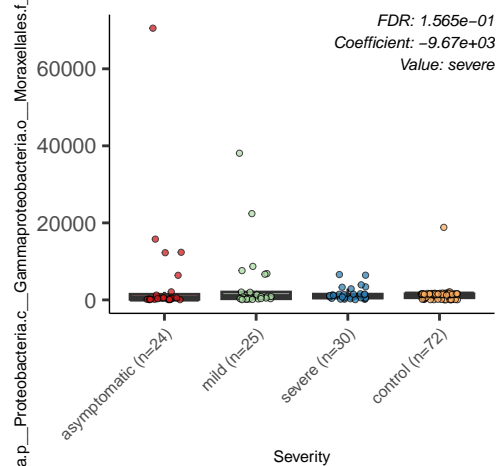


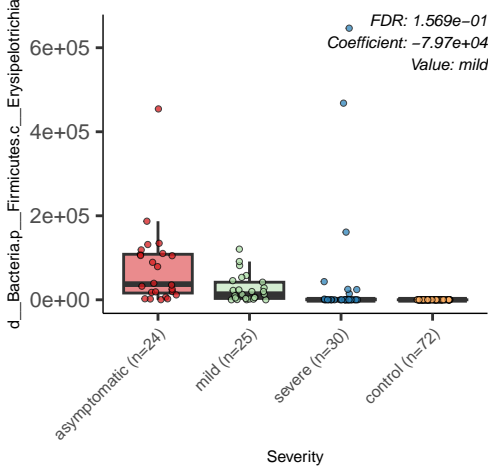


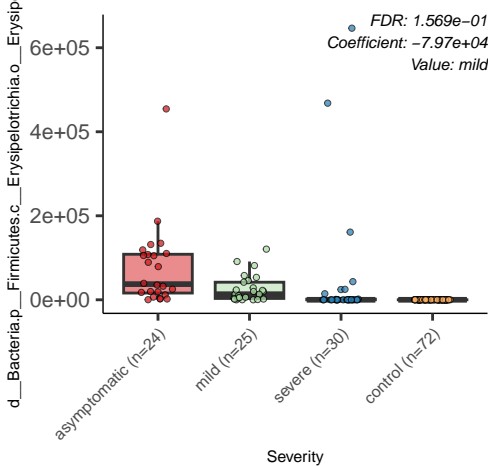


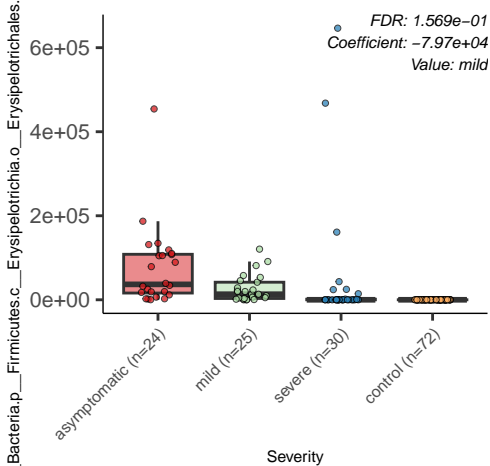
Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae.g

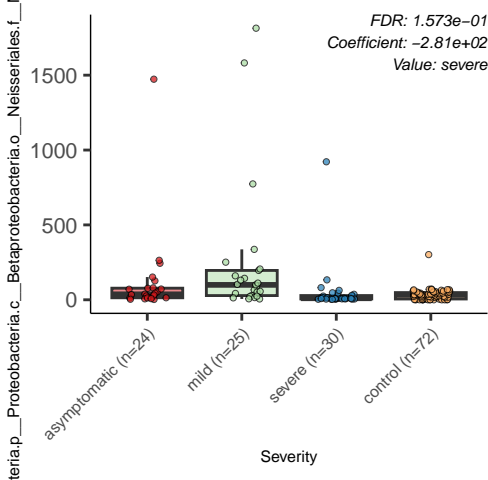


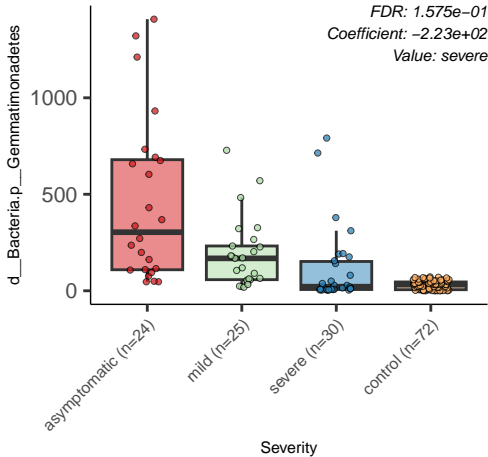












d_Bacteria.p_Gemmatimonadetes.c_Gemmatimonadetes

1000

500

0

asymptomatic (n=24)

mild (n=25)

severe (n=30)

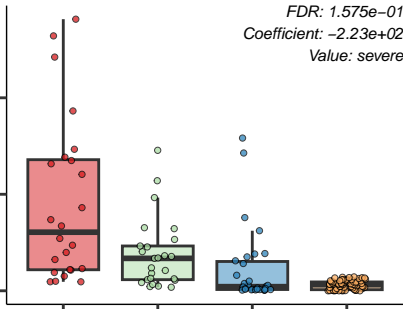
control (n=72)

Severity

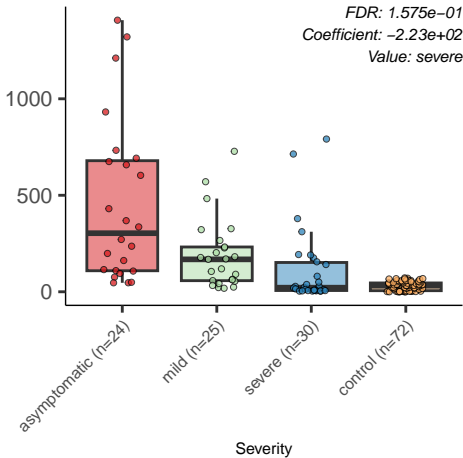
FDR: 1.575e-01

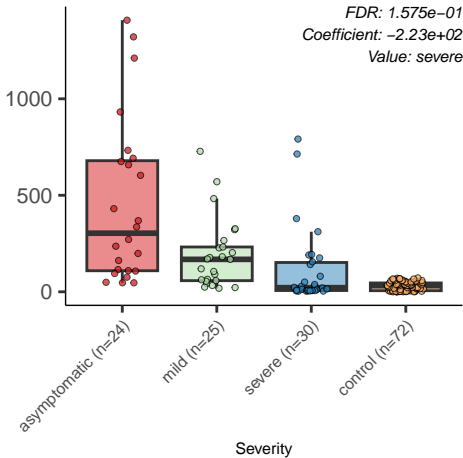
Coefficient: -2.23e+02

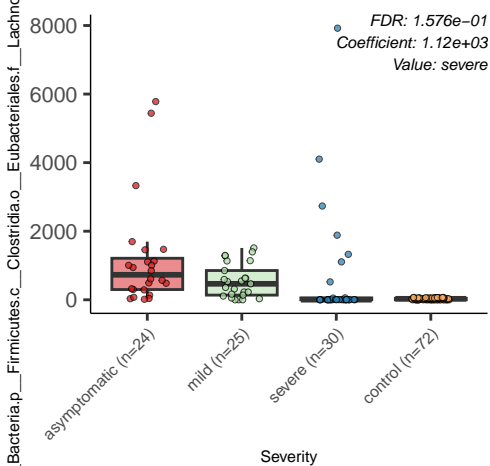
Value: severe



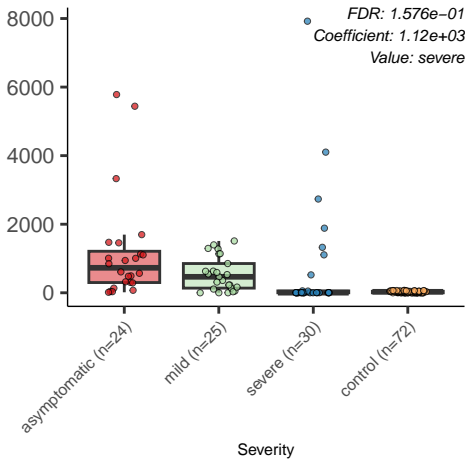
d_Bacteria.p_Gemmatimonadetes.c_Gemmatimonadetes.o_o



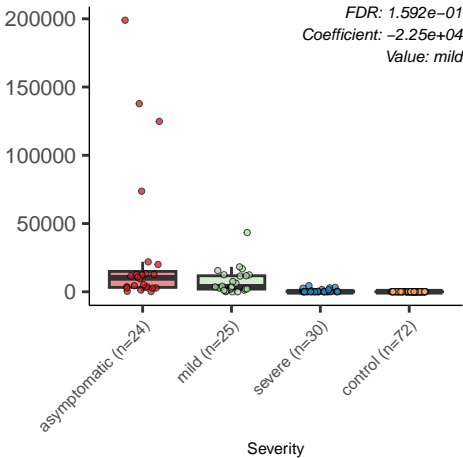




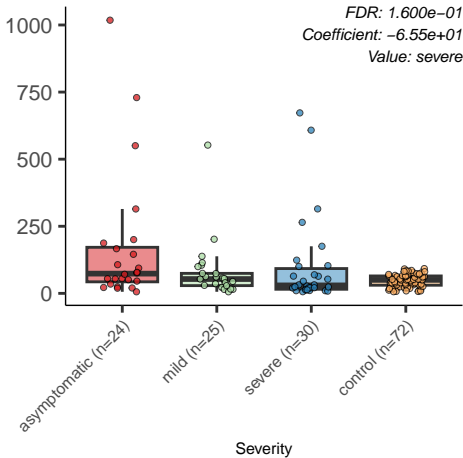
p_Firmicutes.c__Clostridia.o__Eubacteriales.f__Lachnospiraceae



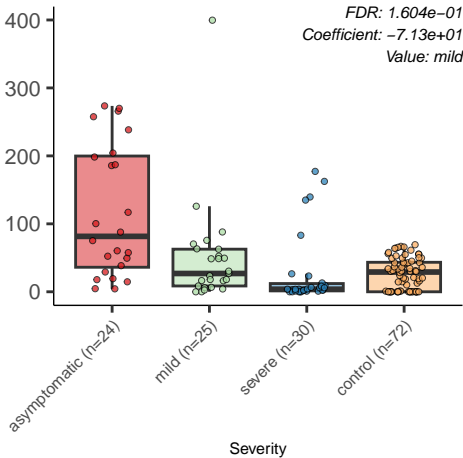
Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Str

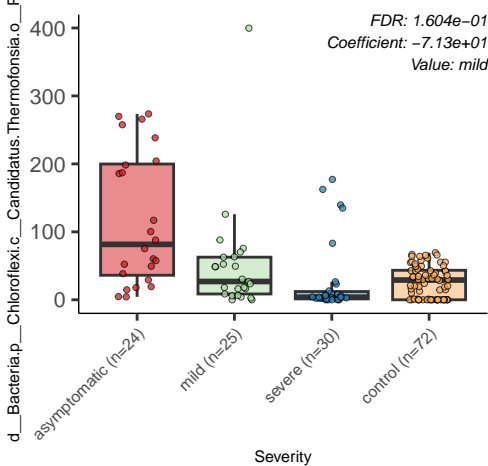


a.c._Gammaproteobacteria.o._Pseudomonadales.f._Pseudomonas

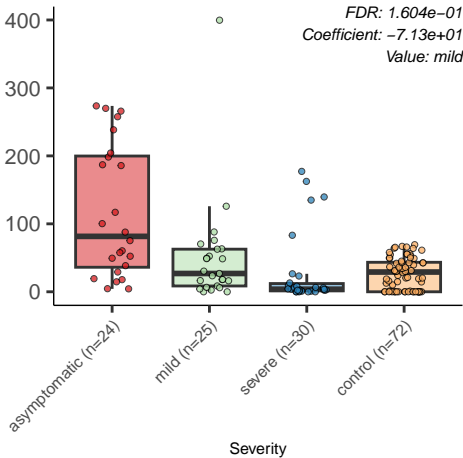


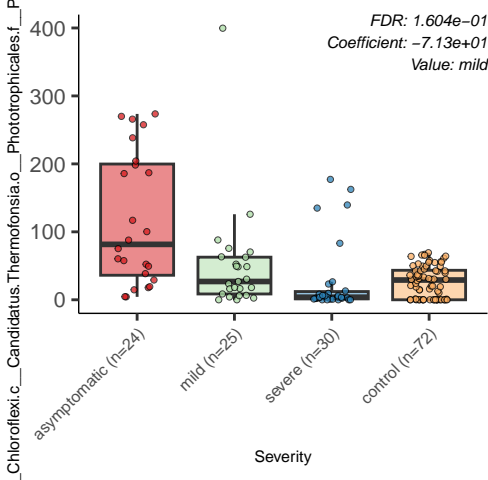
d_Bacteria.p__Chloroflexi.c__Candidatus.Thermoflexus



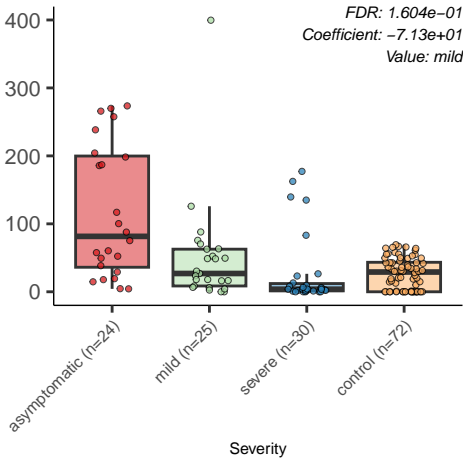


acteria.p__Chloroflexi.c__Candidatus.Thermofonsia.o__Phototrophic

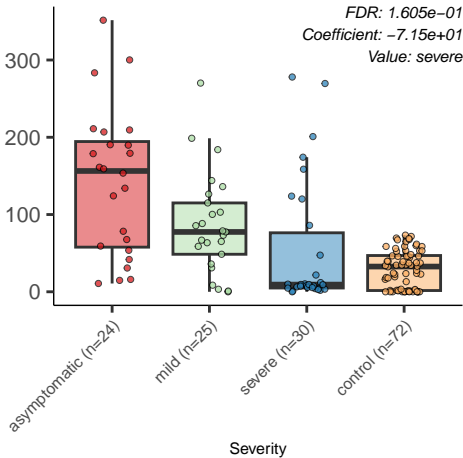


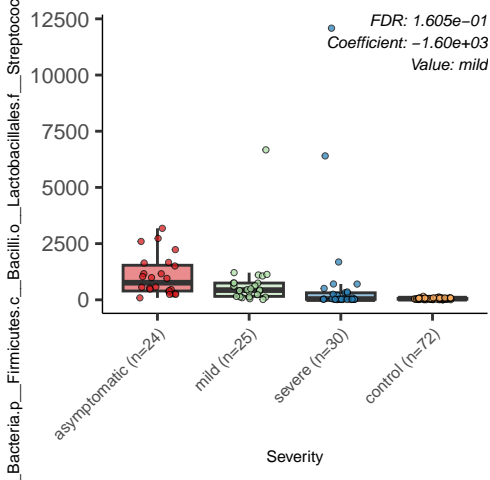


andidatus.Thermofonsia.o__Phototrophicales.f__Phototrophicaceae.

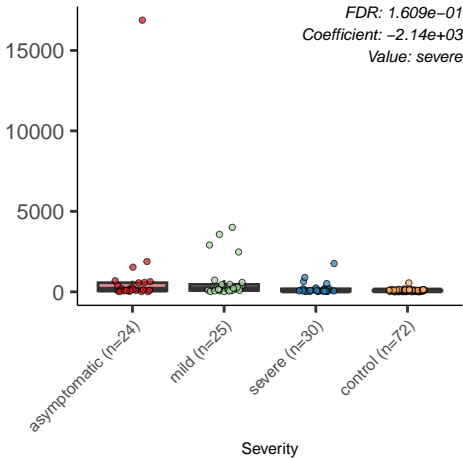


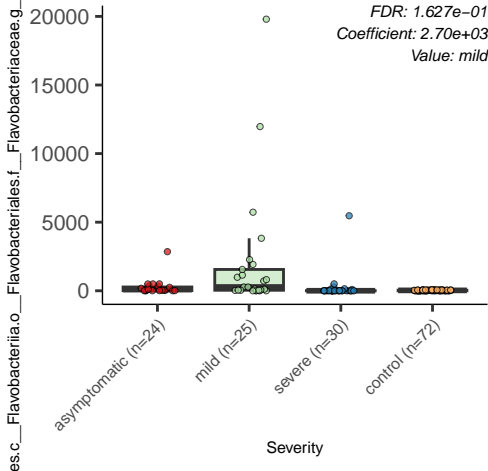
d_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Planococcaceae





acteria.c__Betaproteobacteria.o__Burkholderiales.f__Burkholderiaceae





d_Bacteria.p__Proteobacteria.c__Oligoflexia

FDR: 1.645e-01
Coefficient: -8.90e+02
Value: mild

10000

5000

0

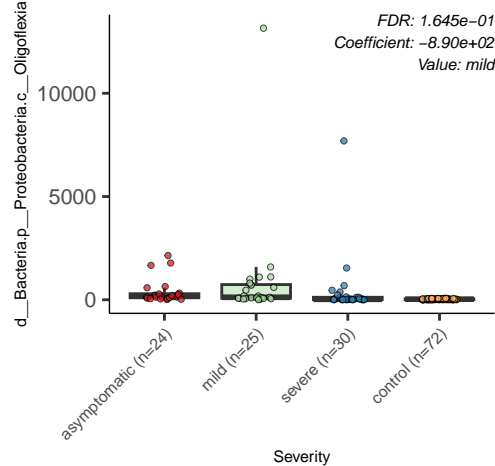
asymptomatic (n=24)

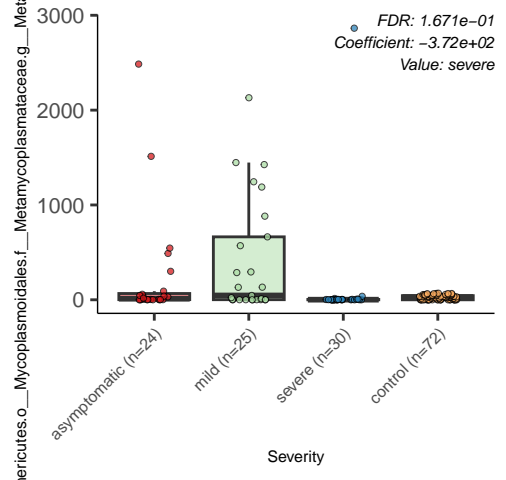
mild (n=25)

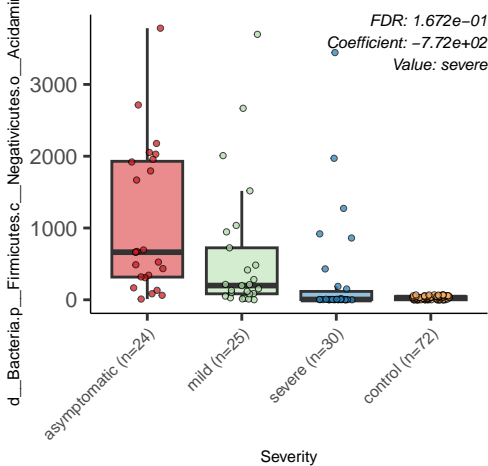
severe (n=30)

control (n=72)

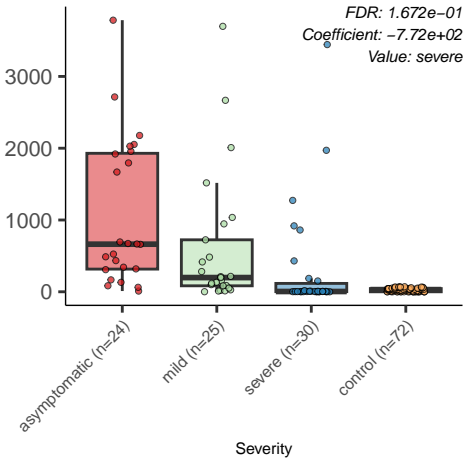
Severity





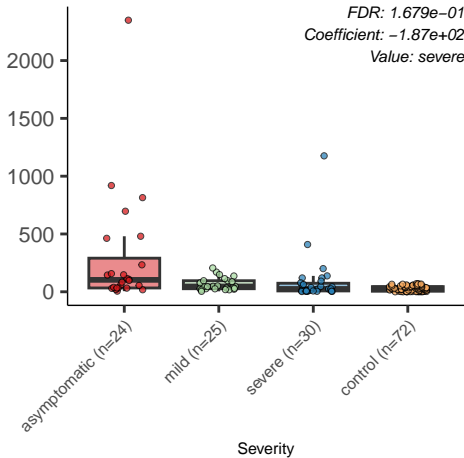


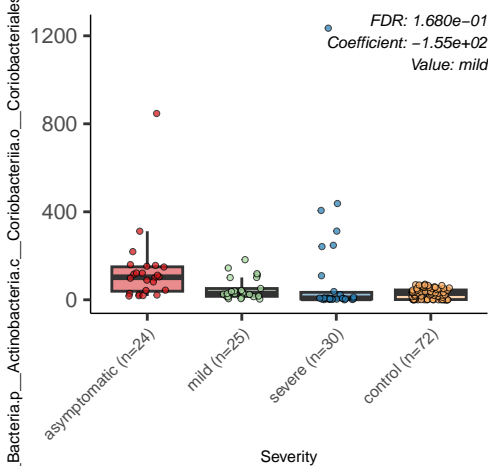
Bacteria.p_Firmicutes.c_Negativicutes.o_Acidaminococcales.f

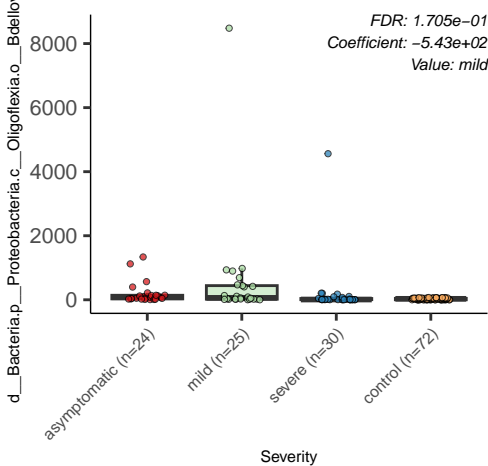


__Bacteria.p__Actinobacteria.c__Actinomycetia.o__Micrococcales.f.

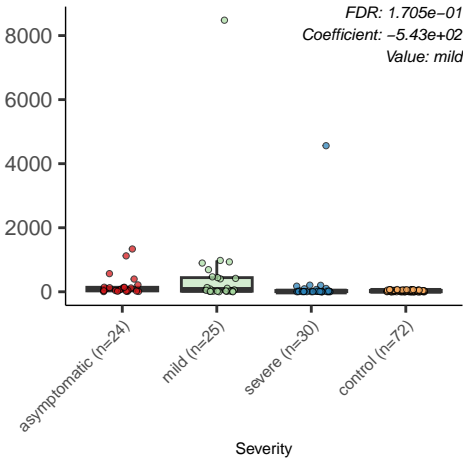
FDR: 1.679e-01
Coefficient: -1.87e+02
Value: severe

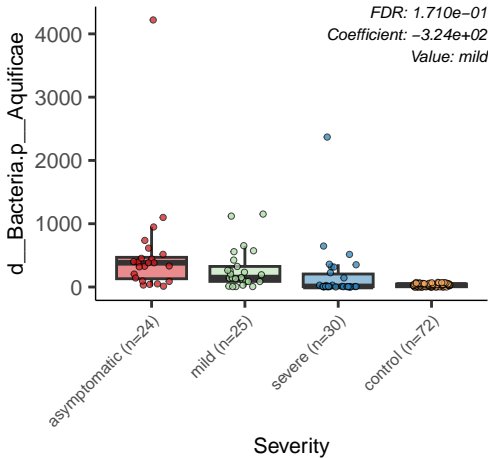






d_Bacteria.p_Proteobacteria.c_Oligoflexia.o_Bdellovibrionales.





d_Bacteria.p_Aquificae.c_Aquificae

FDR: 1.710e-01
Coefficient: -3.24e+02
Value: mild

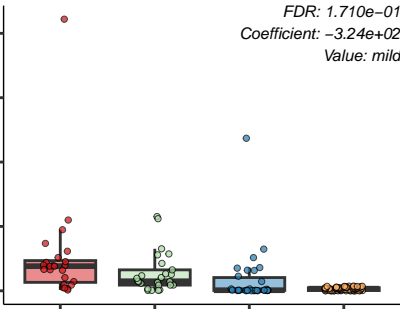
asymptomatic (n=24)

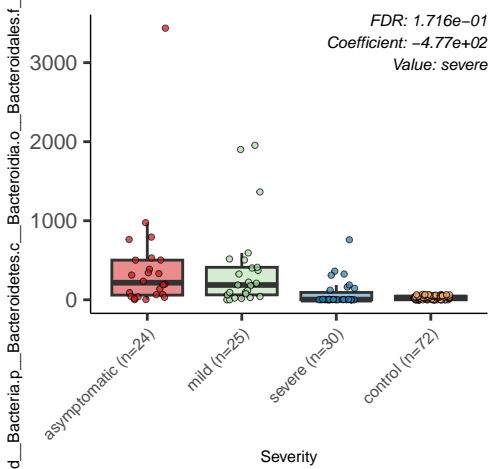
mild (n=25)

severe (n=30)

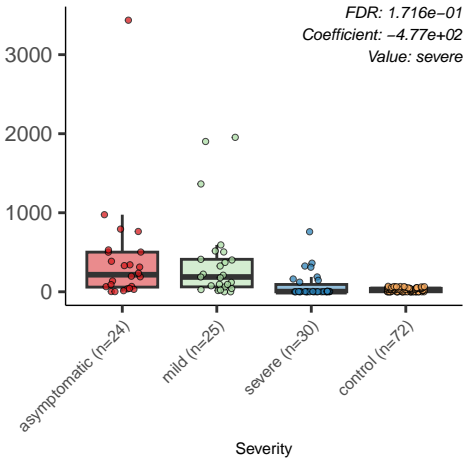
control (n=72)

Severity

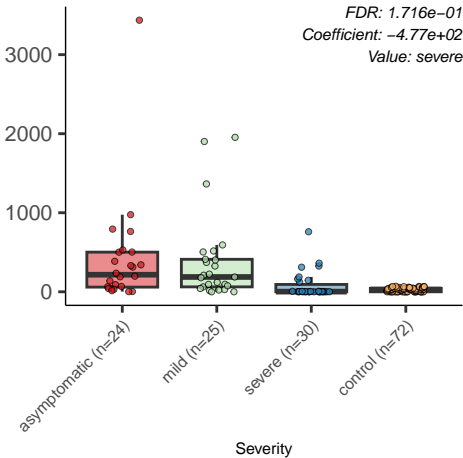




acteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f_Paludib



pidetes.c_Bacteroidia.o_Bacteroidales.f_Paludibacteraceae.g



Firmicutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__S

FDR: 1.719e-01
Coefficient: -1.41e+03
Value: severe

7500

5000

2500

0

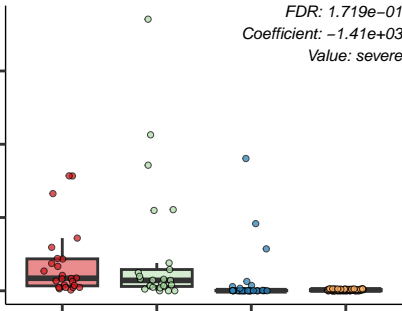
asymptomatic (n=24)

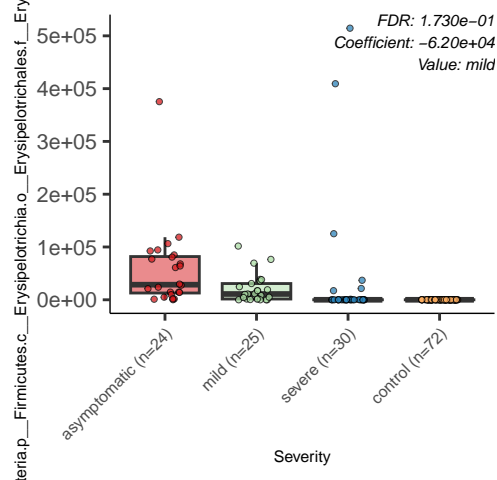
mild (n=25)

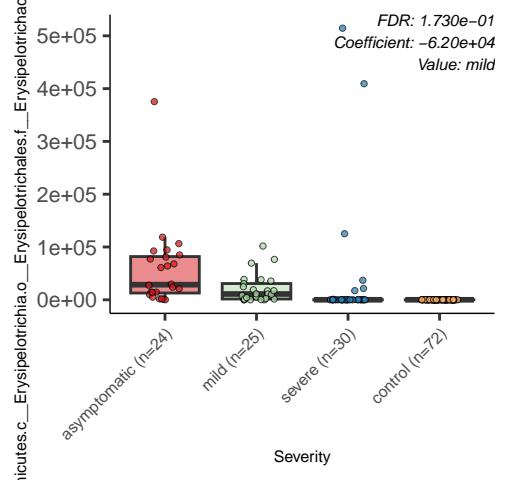
severe (n=30)

control (n=72)

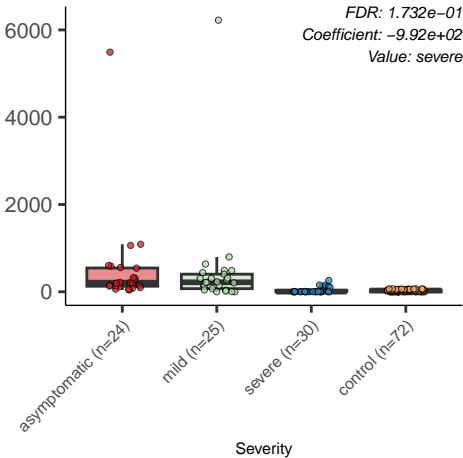
Severity

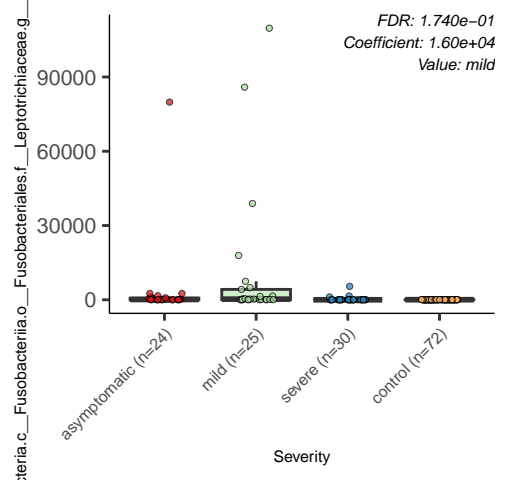


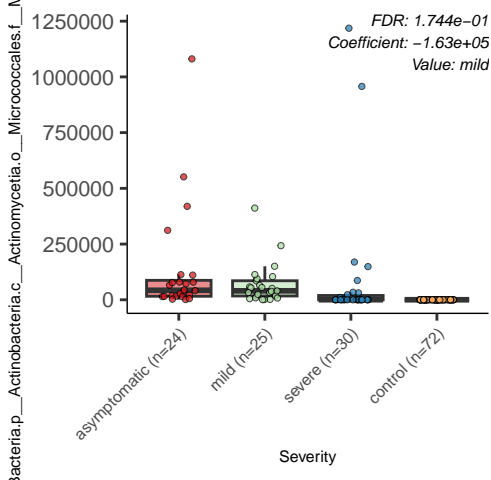


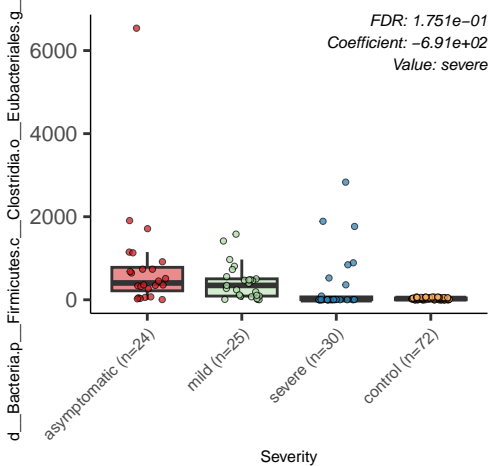


icutes.c__Bacilli.o__Lactobacillales.f__Streptococcaceae.g__Strepto

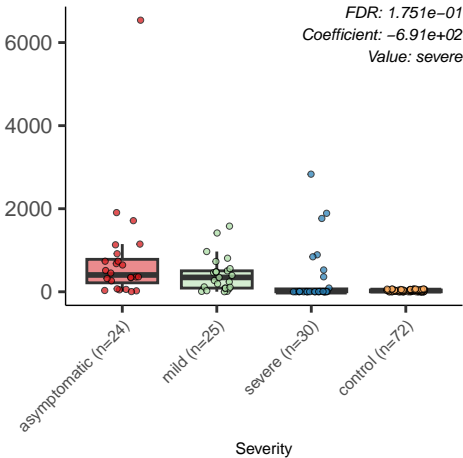


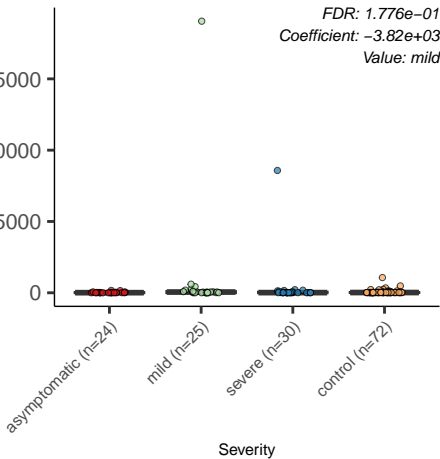


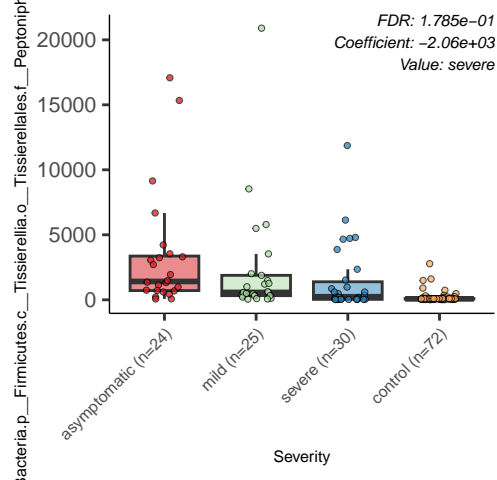




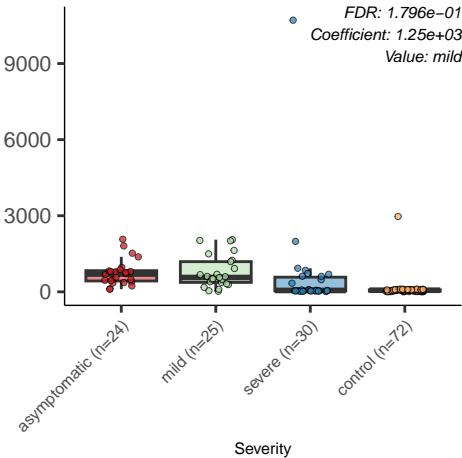
ria.p__Firmicutes.c__Clostridia.o__Eubacteriales.g__Massilistercora



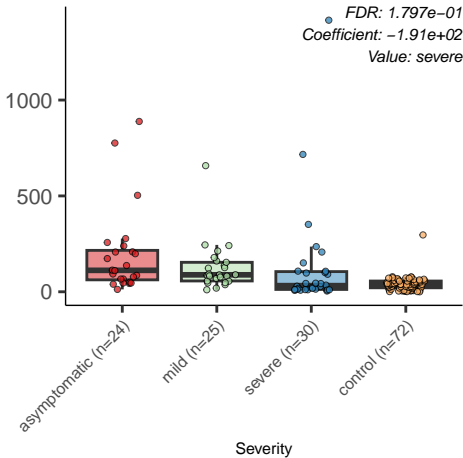




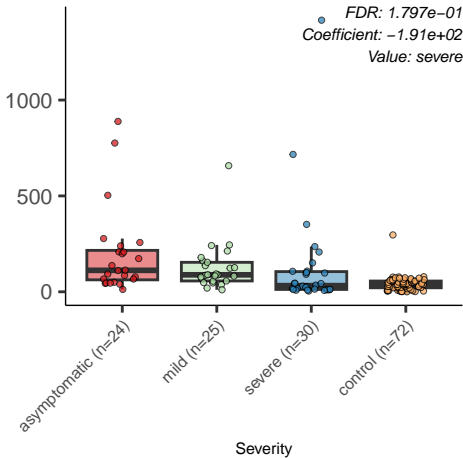
bacteria.p__Proteobacteria.c__Gammaproteobacteria.o__Enterobac



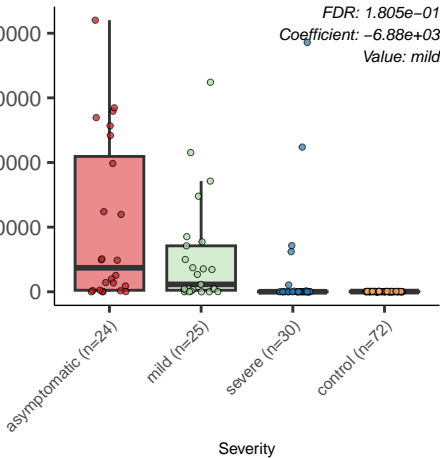
d_Bacteria.p_Actinobacteria.c_Actinomycetia.o_Candidatus

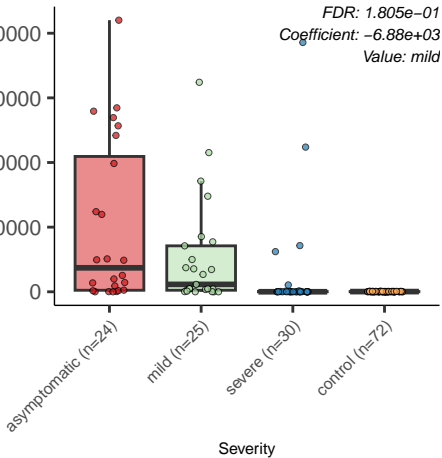


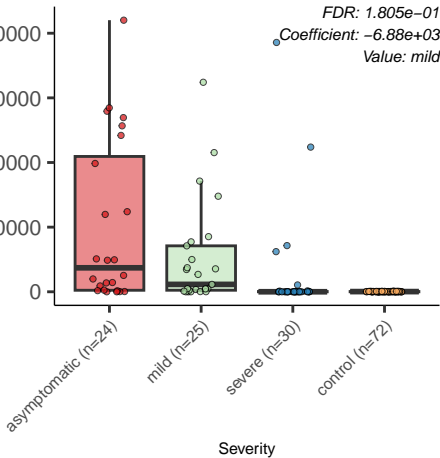
Actinobacteria.c__Actinomycetia.o__Candidatus.Nanopelagale



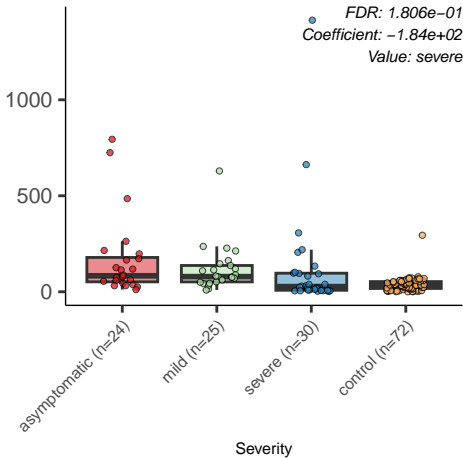
d_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.



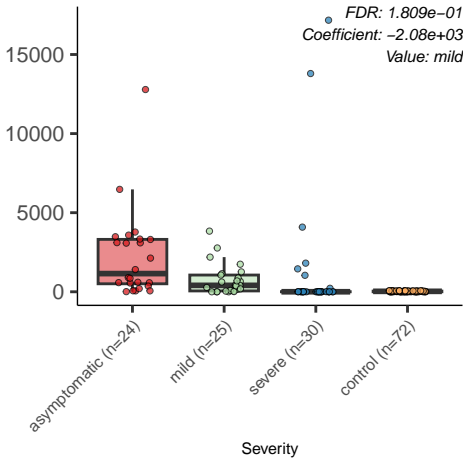




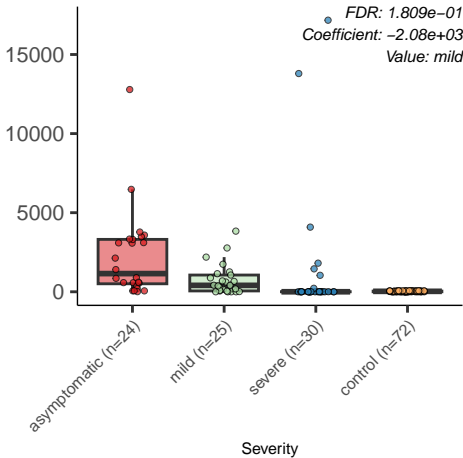
eria.c_Actinomyces.f_Candidatus.Nanopelagales.f_Candidatu

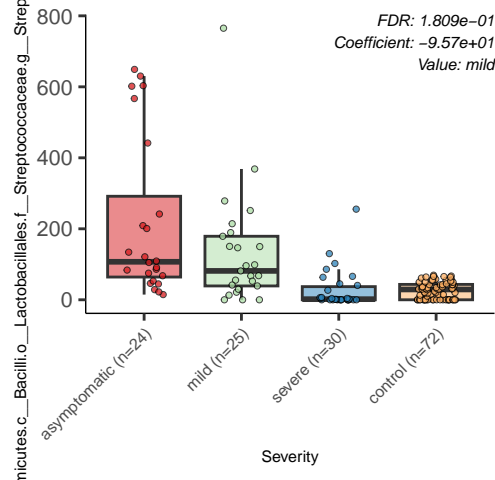


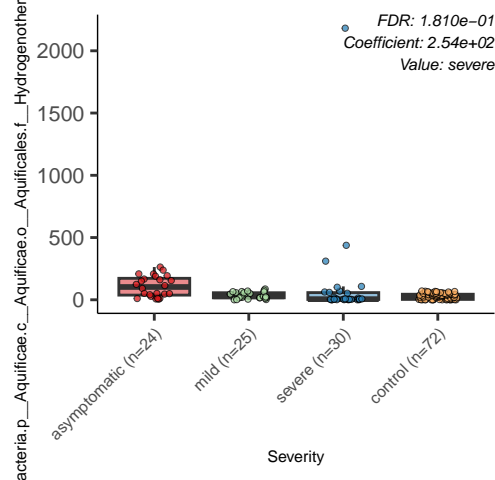
a.p__Firmicutes.c__Erysipelotrichia.o__Erysipelotrichales.f__Erysip

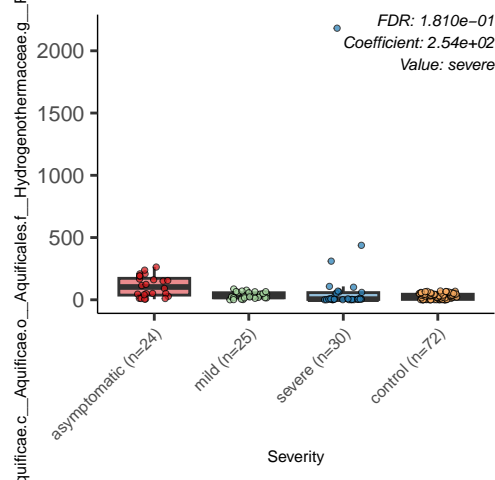


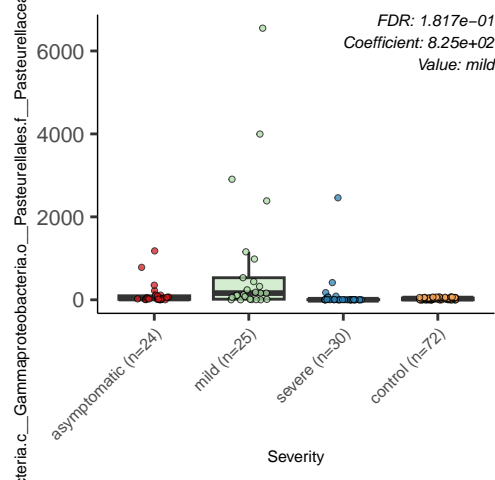
.c__Erysipelotrichia.o__Erysipelotrichales.f__Erysipelotrichaceae.g

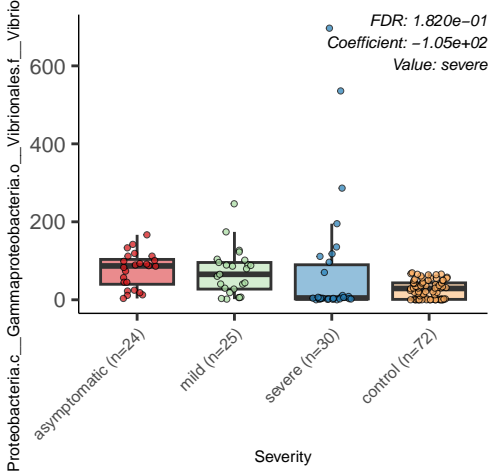


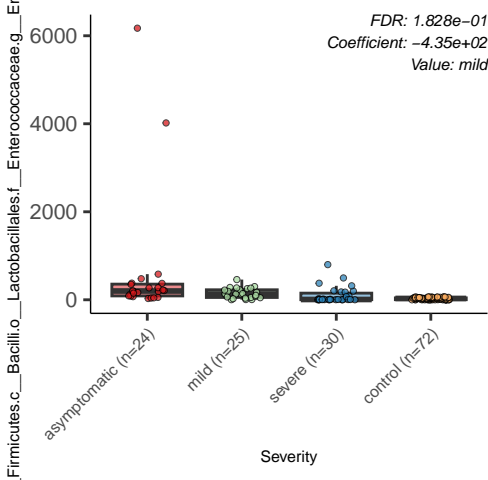












cteroidetes.c__Bacteroidia.o__Bacteroidales.f__Prevotellaceae.g

FDR: 1.833e-01
Coefficient: -1.70e+05
Value: mild

1e+06

5e+05

0e+00

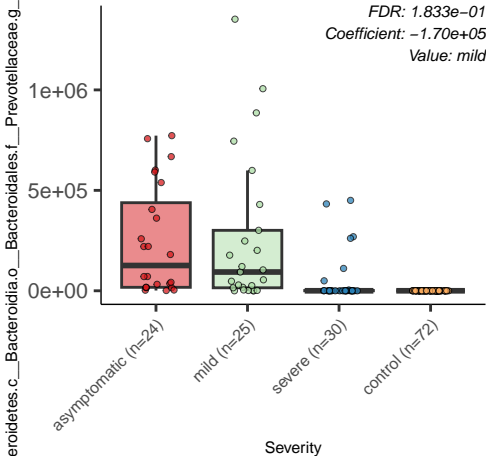
asymptomatic (n=24)

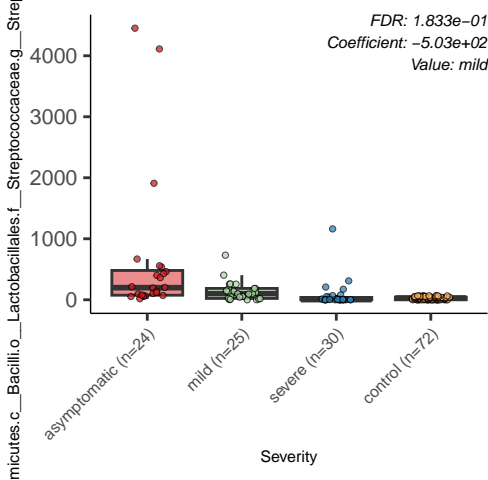
mild (n=25)

severe (n=30)

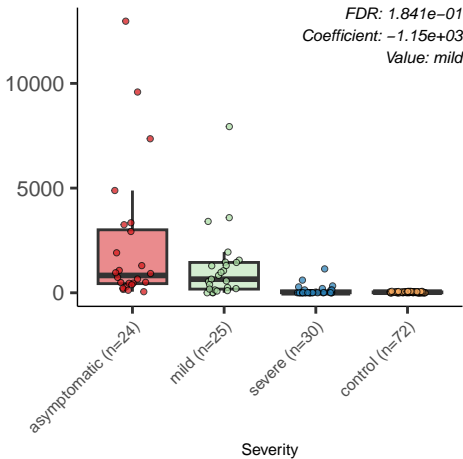
control (n=72)

Severity

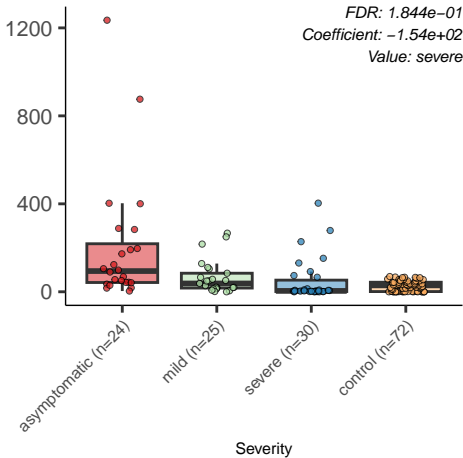




micutes.c_Bacilli.o_Lactobacillales.f_Streptococcaceae.g_Strep

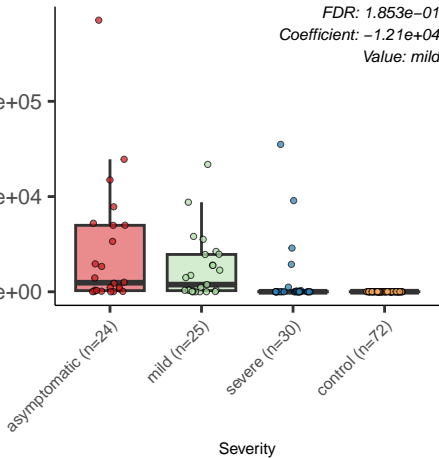


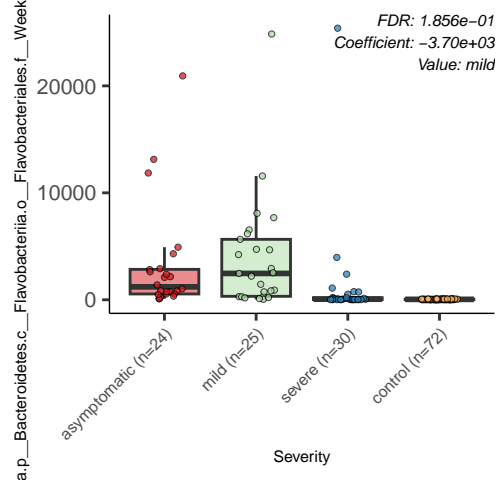
Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Alicyclobacillae

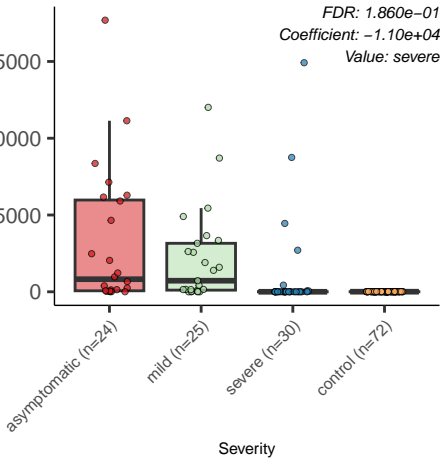


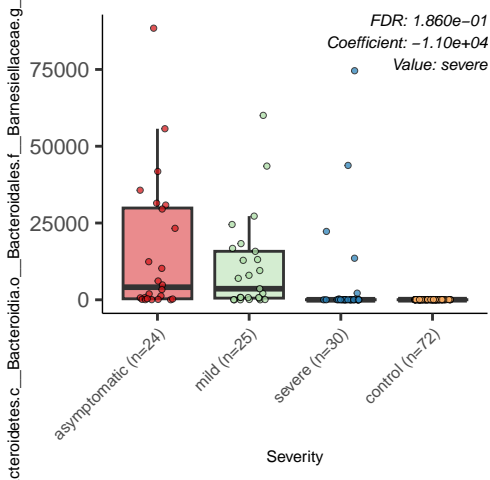
d_Bacteria.p_Bacteroidetes.c_Bacteroidia.o_Bacteroidales.f.

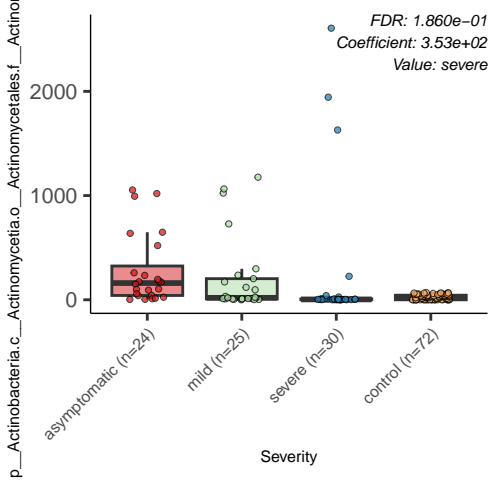
FDR: $1.853e-01$
Coefficient: $-1.21e+04$
Value: mild

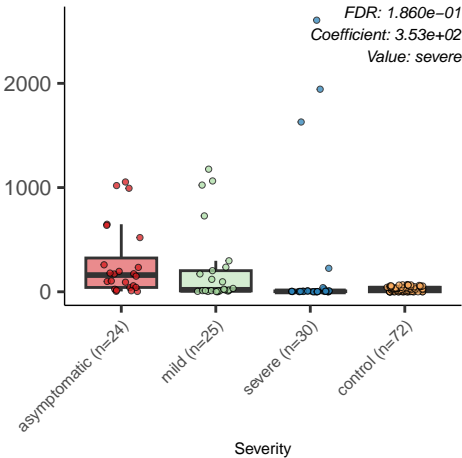




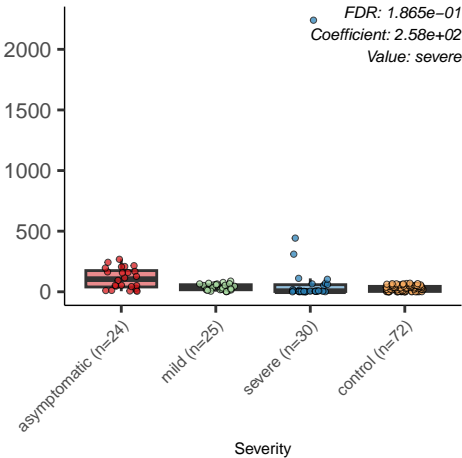


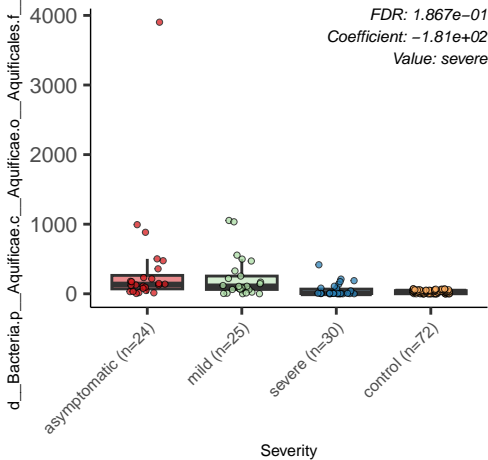


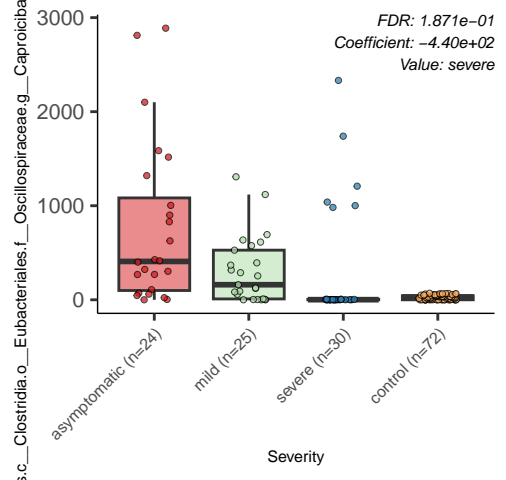


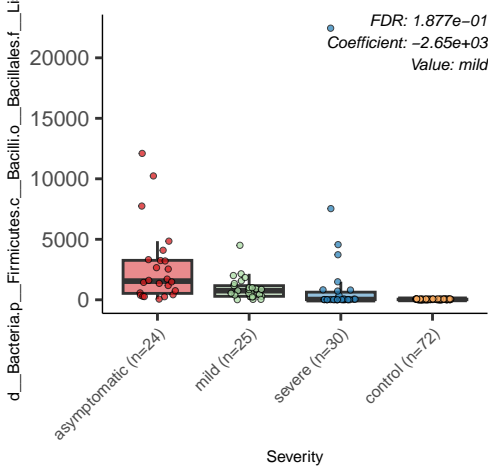


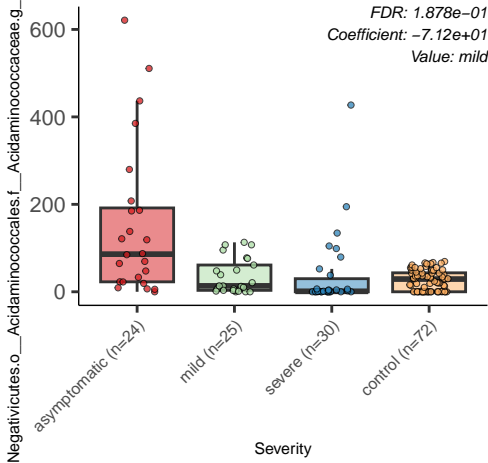
d_Bacteria.p_Aquificae.c_Aquificae.o_Aquificales.f_Hydro

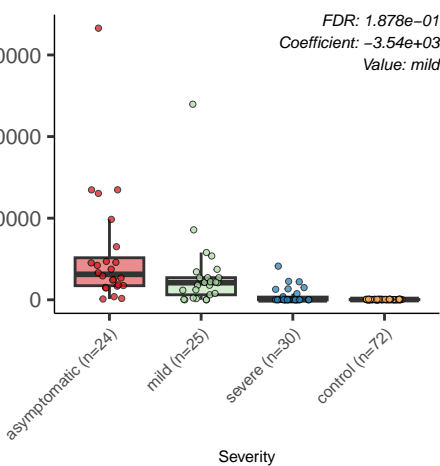




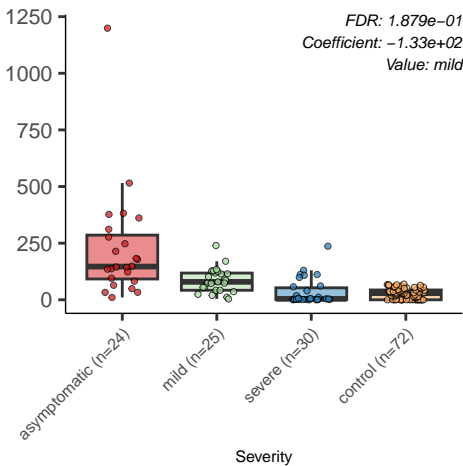




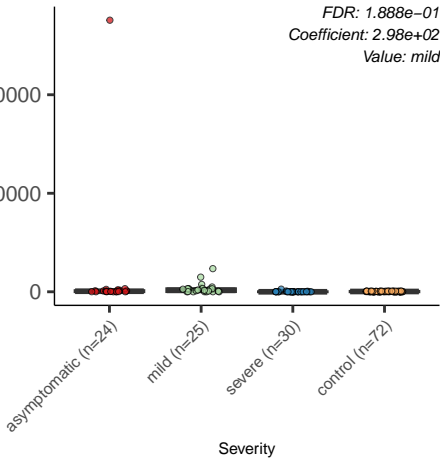


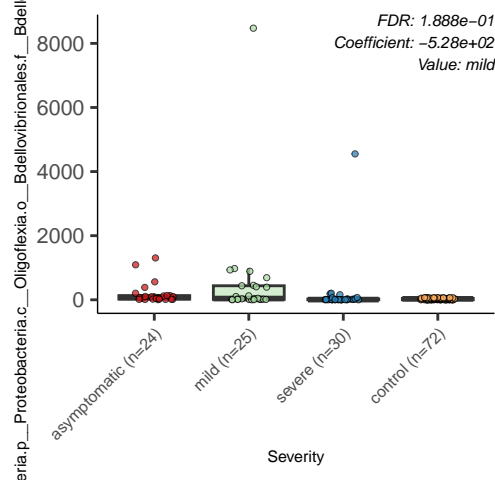


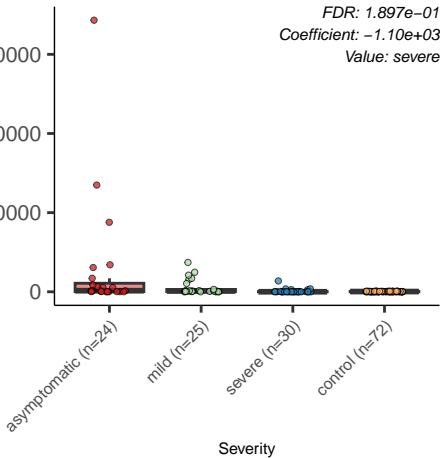
Bacteria.p_Spirochaetes.c_Spirochaetia.o_Leptospirales.f_Lept



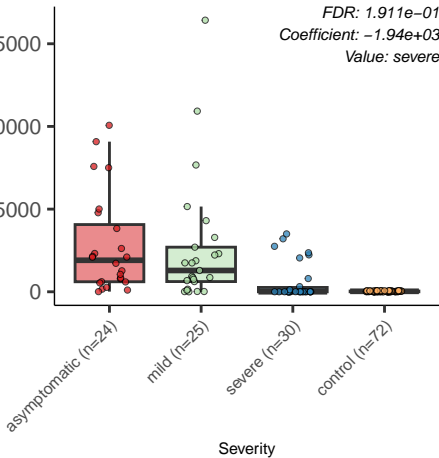
FDR: 1.888e-01
Coefficient: 2.98e+02
Value: mild

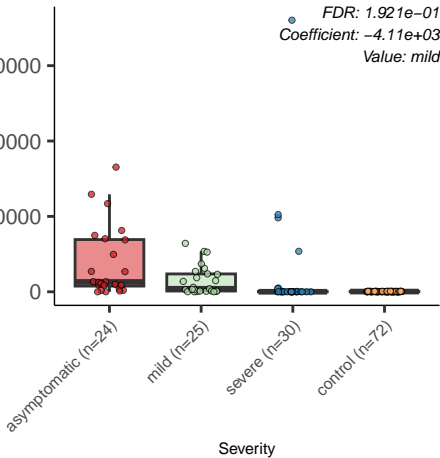


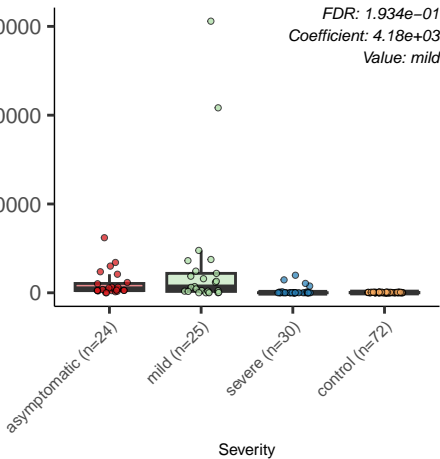


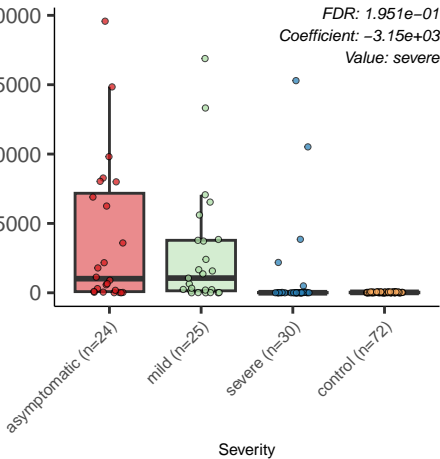


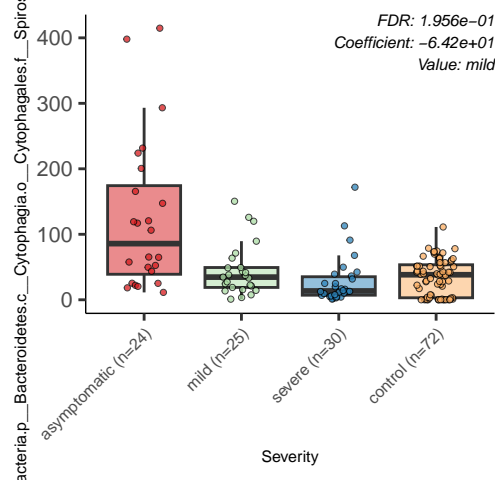
FDR: $1.911\text{e-}01$
Coefficient: $-1.94\text{e+}03$
Value: severe

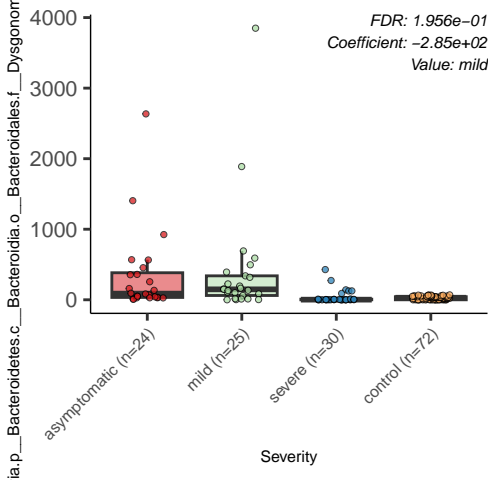




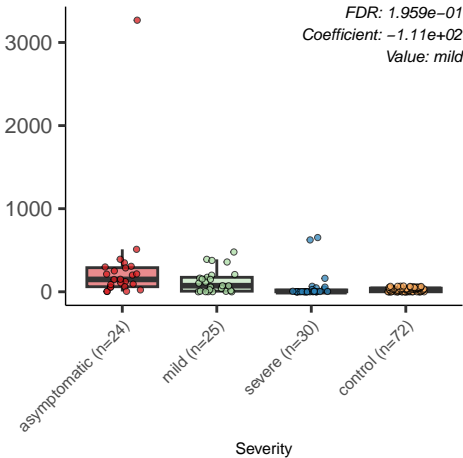


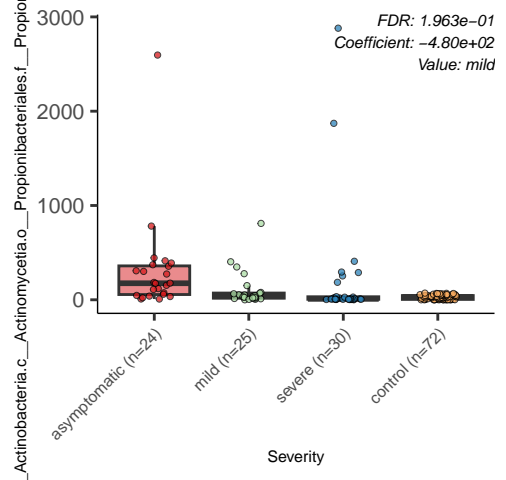


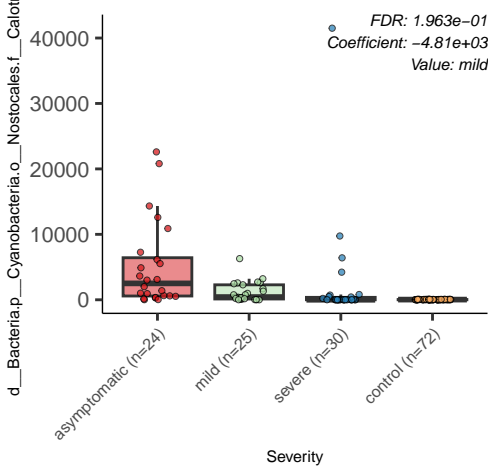


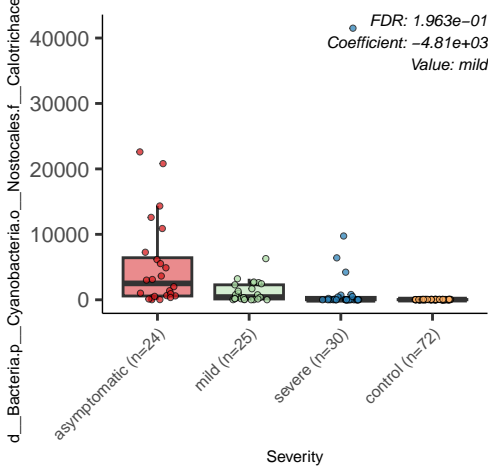


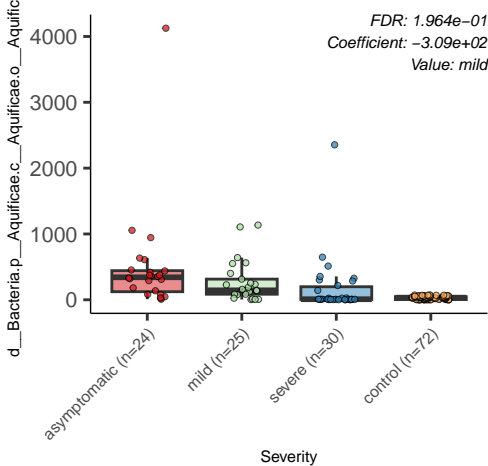
arimonadia.o__Candidatus.Nanosynbacterales.f__Candidatus.Nano

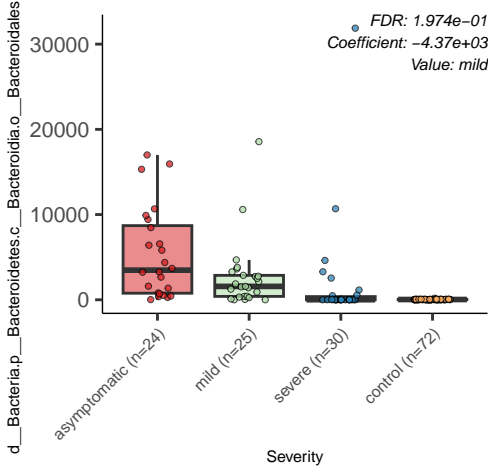


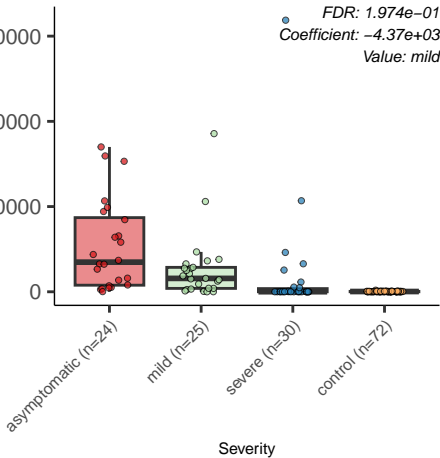


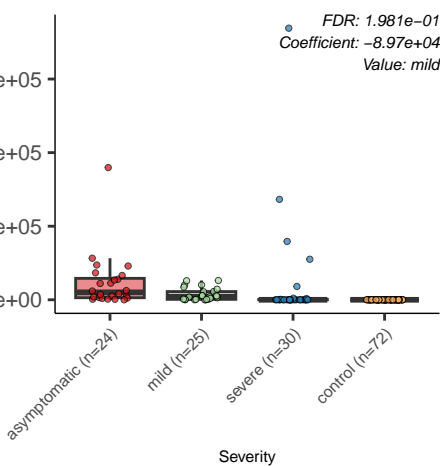


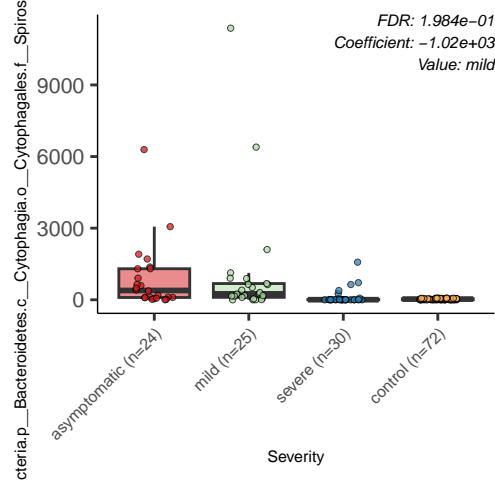


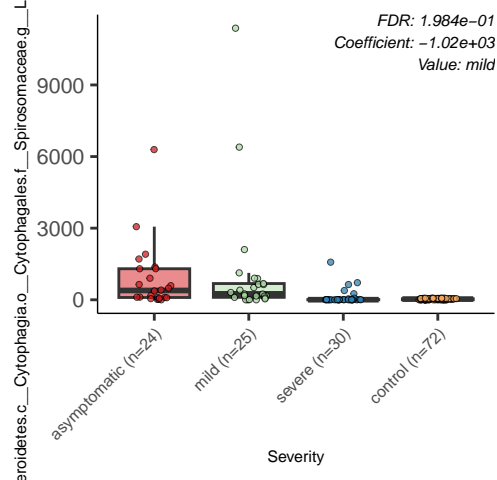


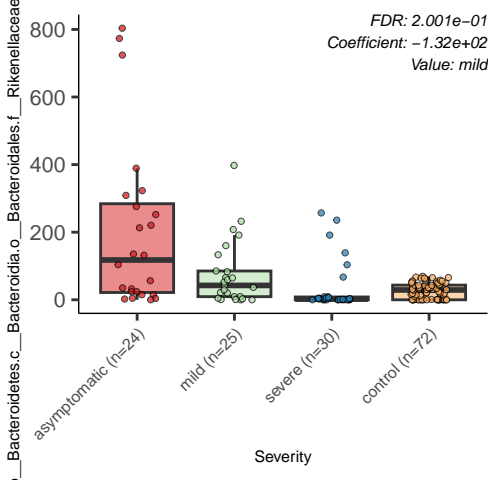




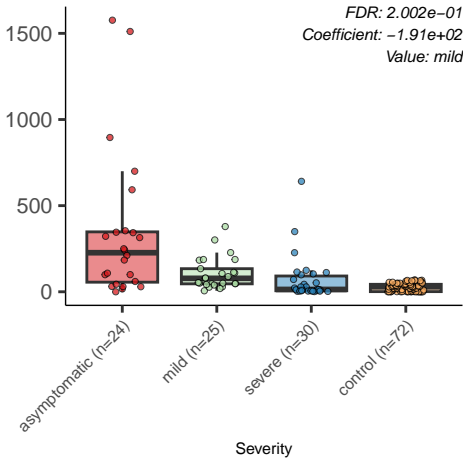


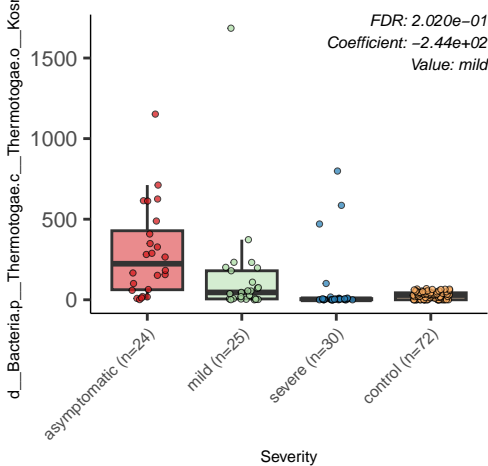






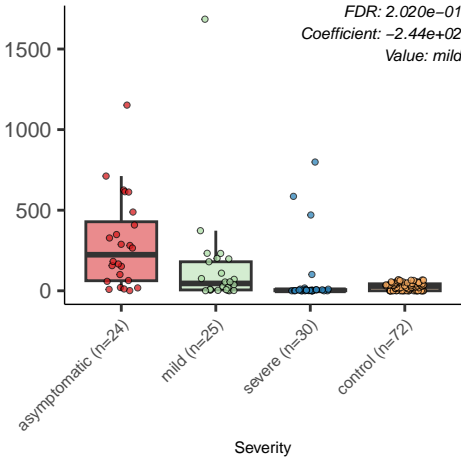
Firmicutes.c_Bacilli.o_Lactobacillales.f_Lactobacillaceae.g_La

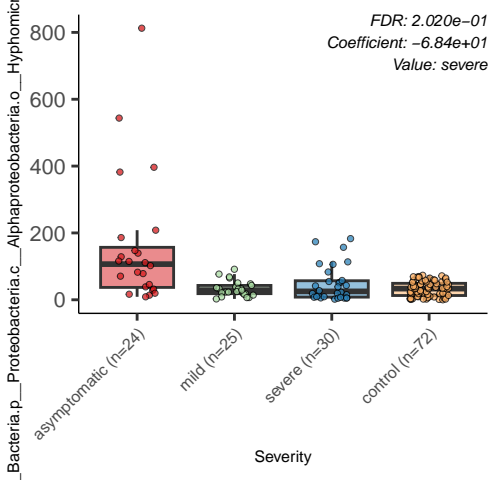




d_Bacteria.p_Thermotogae.c_Thermotogae.o_Kosmotogales

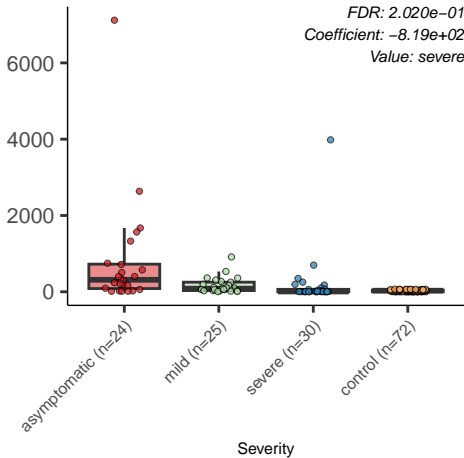
FDR: 2.020e-01
Coefficient: -2.44e+02
Value: mild

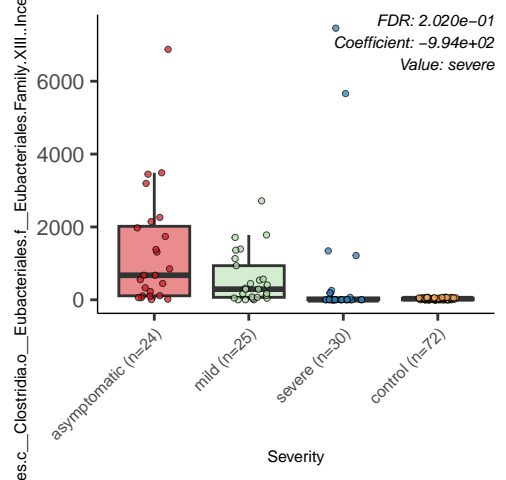


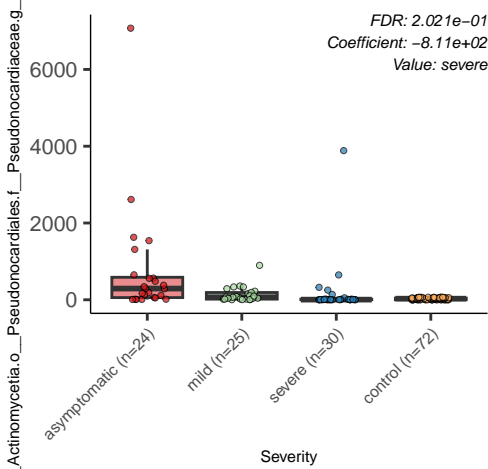


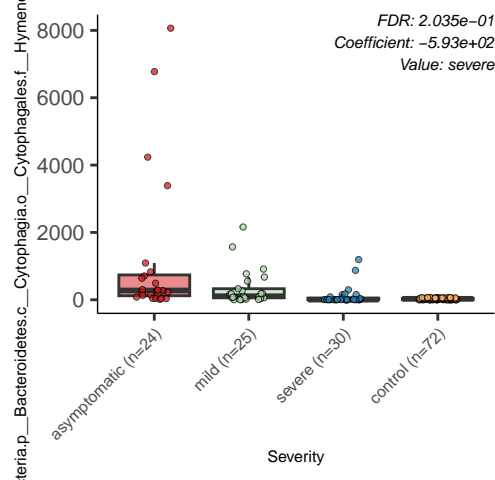
Actinobacteria.c_Actinomycetia.o_Pseudonocardiales.f_Pseudo

FDR: 2.020×10^{-1}
Coefficient: -8.19×10^2
Value: severe

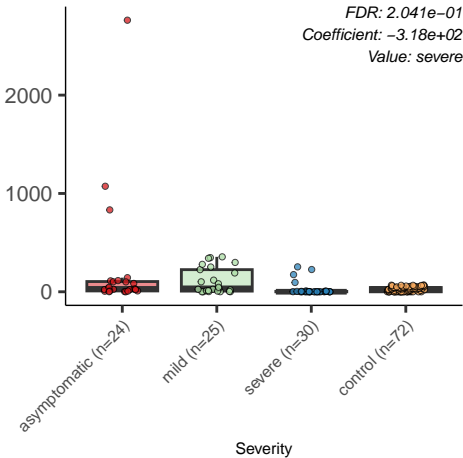


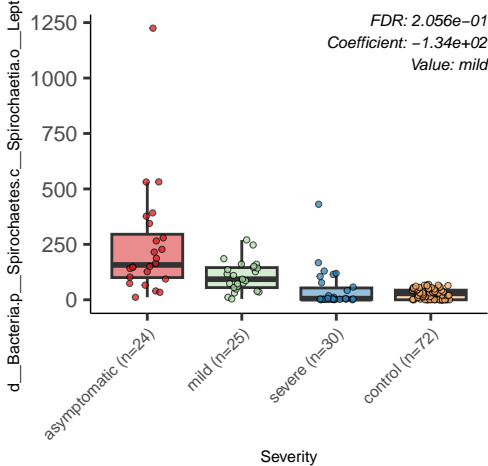




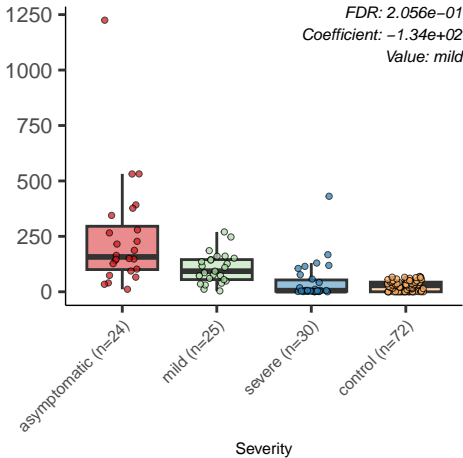


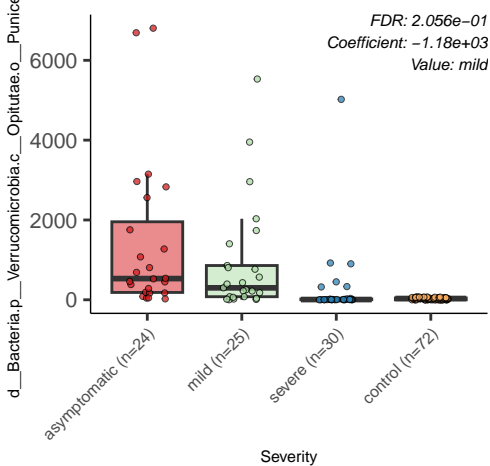
etes.c__Spirochaetia.o__Spirochaetales.f__Treponemataceae.g__T



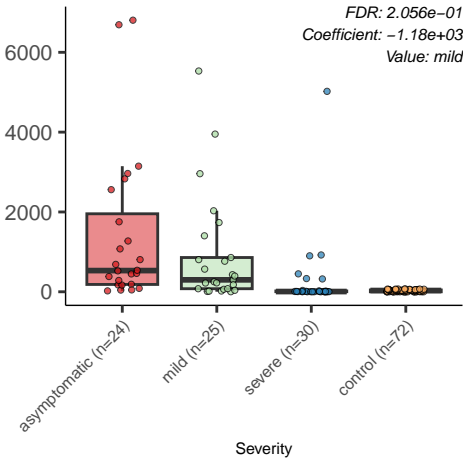


d_Bacteria.p__Spirochaetes.c__Spirochaetia.o__Leptospirales.

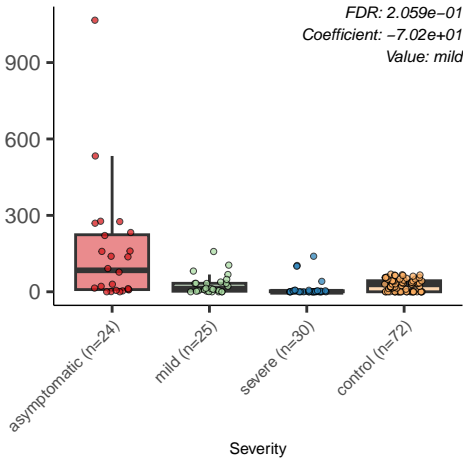




d_Bacteria.p__Verrucomicrobia.c__Opitutae.o__Puniceicoccales.t

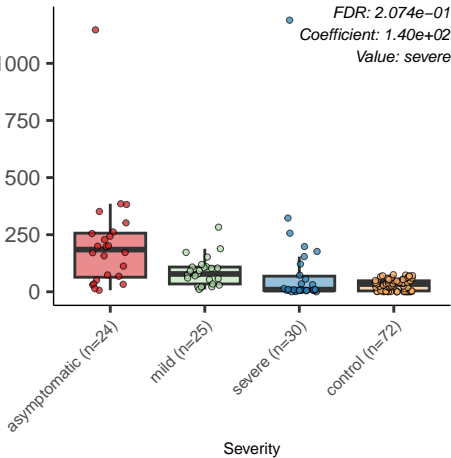


ss.c__Synergistia.o__Synergistales.f__Synergistaceae.g__Therman

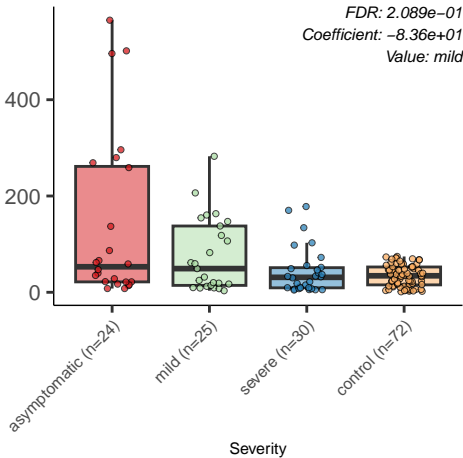


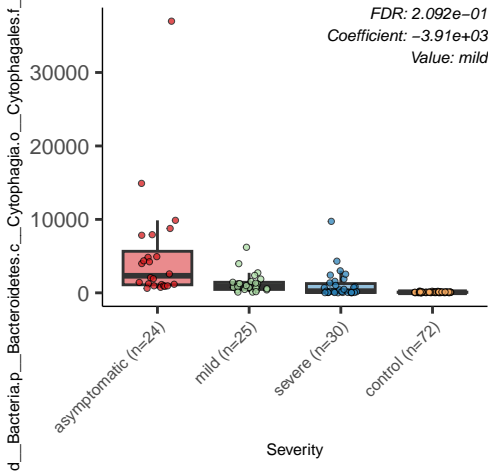
d_Bacteria.p_Firmicutes.c_Bacilli.o_Bacillales.f_Paenibacillales

FDR: 2.074e-01
Coefficient: 1.40e+02
Value: severe

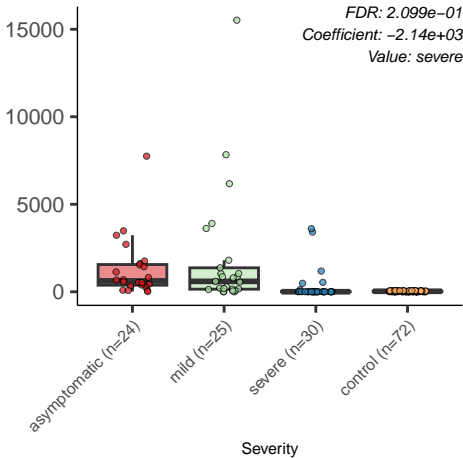


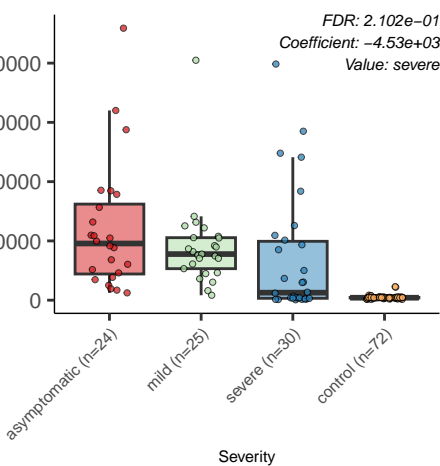
p_Actinobacteria.c_Actinomycetia.o_Propionibacteriales.f_Prop

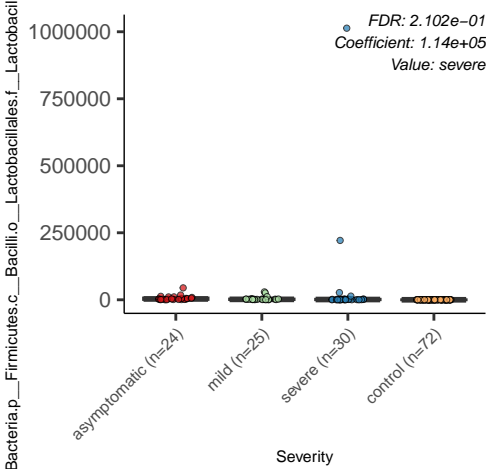


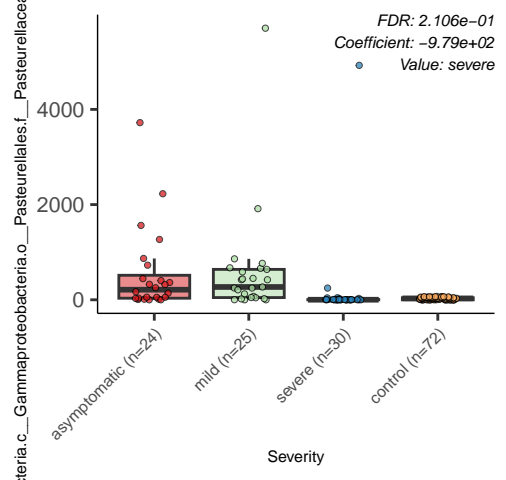


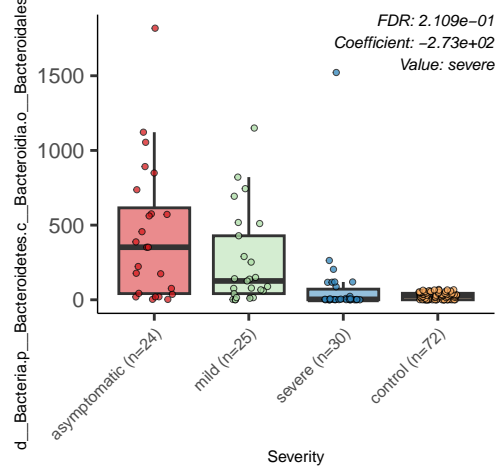
a.c._Gammaproteobacteria.o_Pasteurellales.f_Pasteurellaceae.g

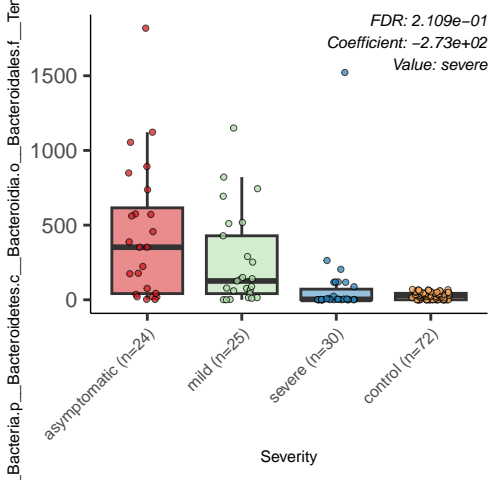




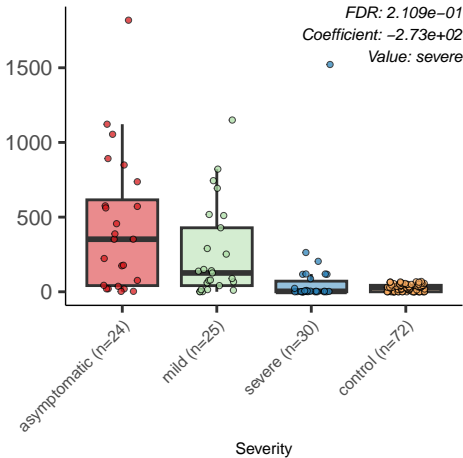


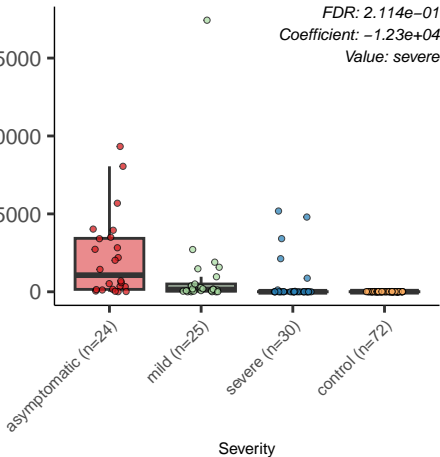


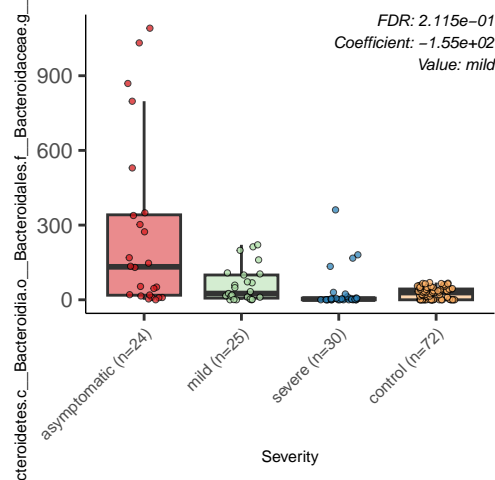


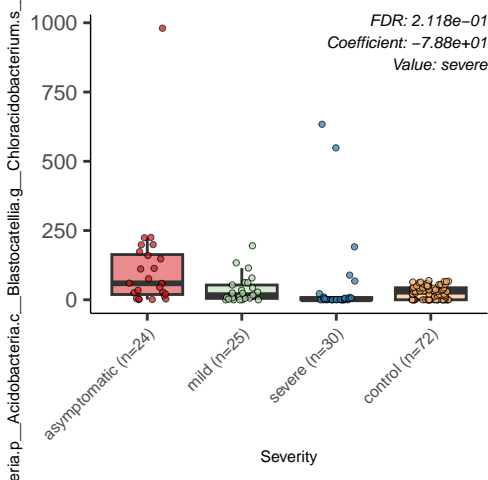


FDR: $2.109e-01$
Coefficient: $-2.73e+02$
Value: severe

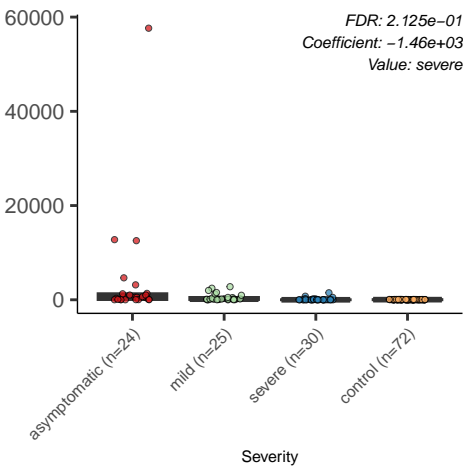


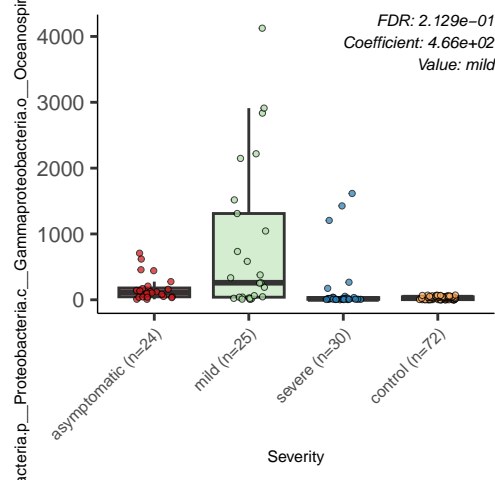




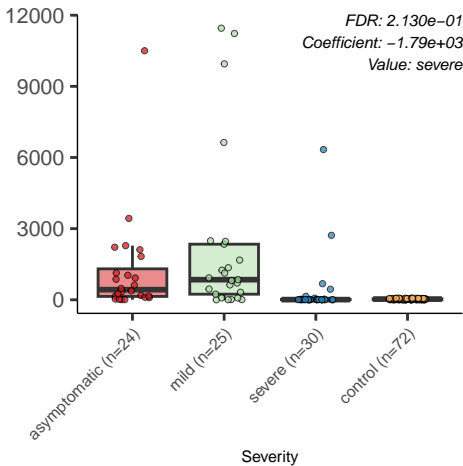


Bacteroidetes.c__Bacteroidia.o__Bacteroidales.f__Muribaculaceae.g

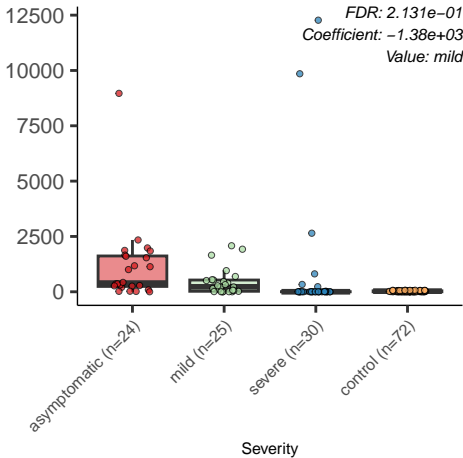


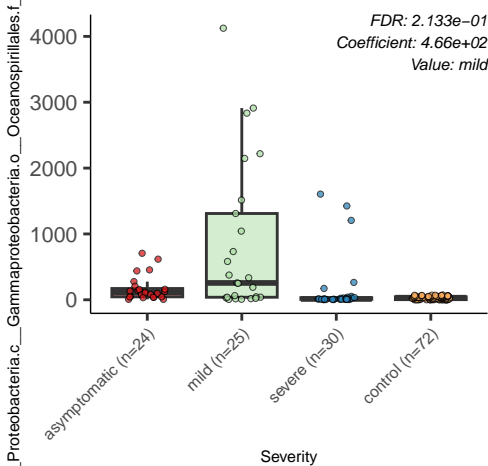


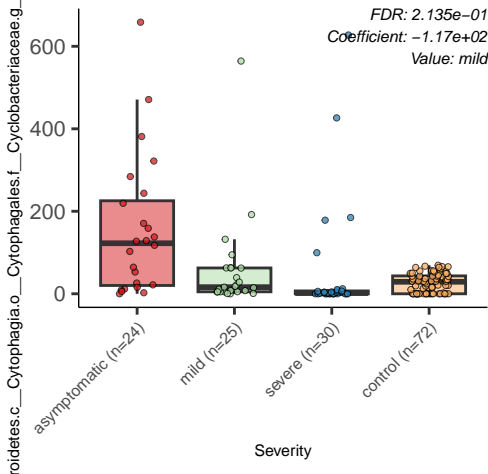
oteobacteria.c__Betaproteobacteria.o__Neisseriales.f__Neisseriaceae



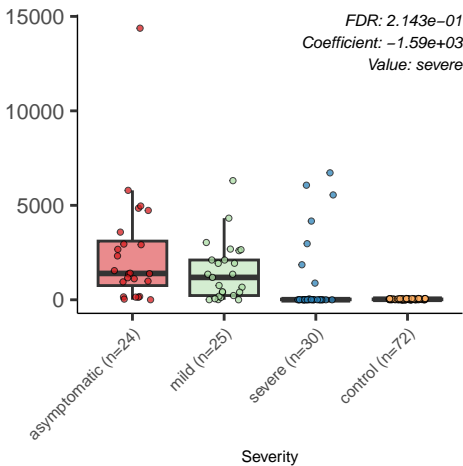
es.c__Erysipelotrichia.o__Erysipelotrichales.f__Erysipelotrichaceae

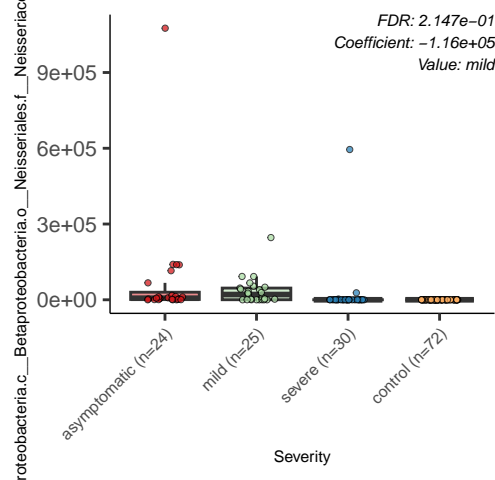


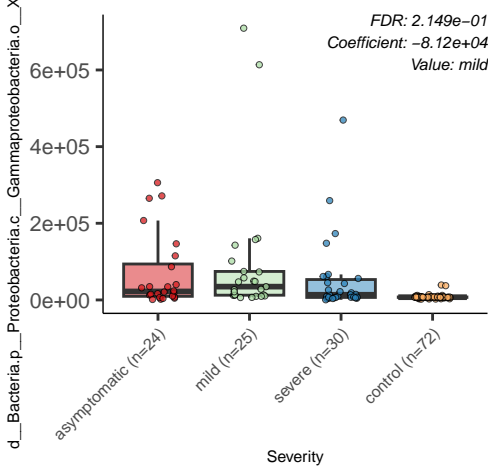




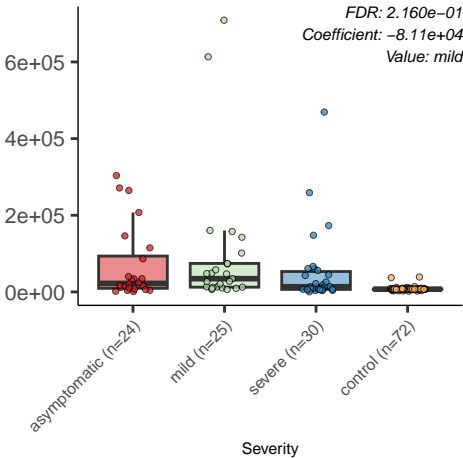
Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnosp

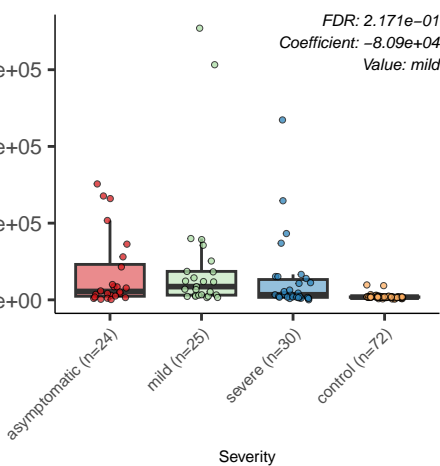


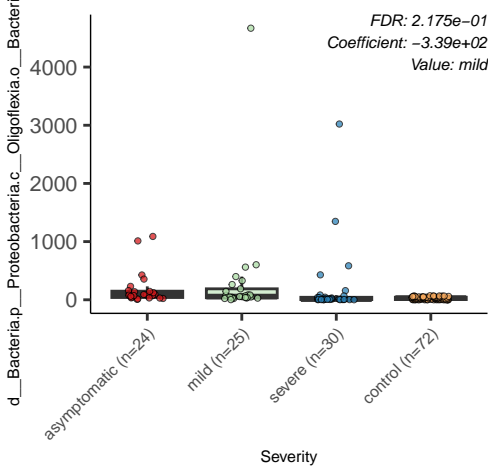




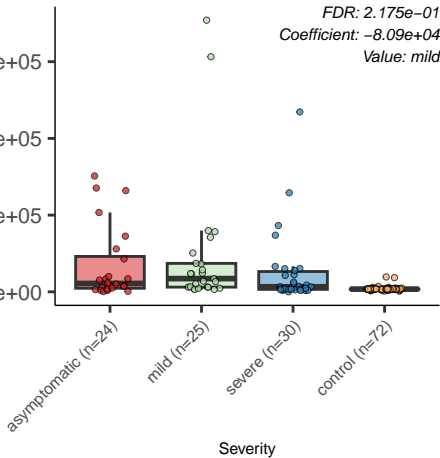
teria.p__Proteobacteria.c__Gammaproteobacteria.o__Xanthomona

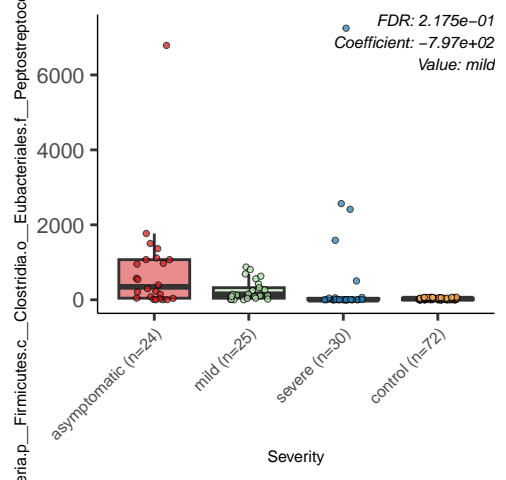


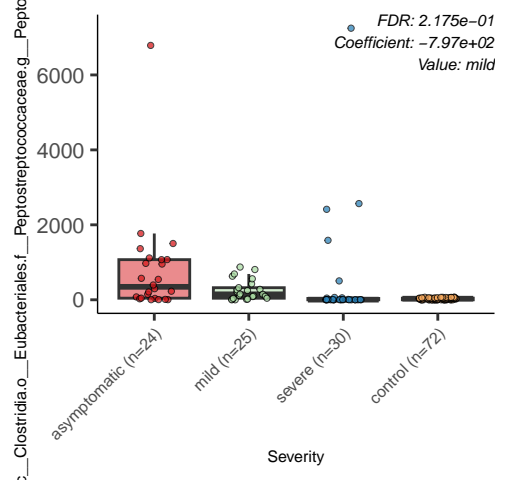


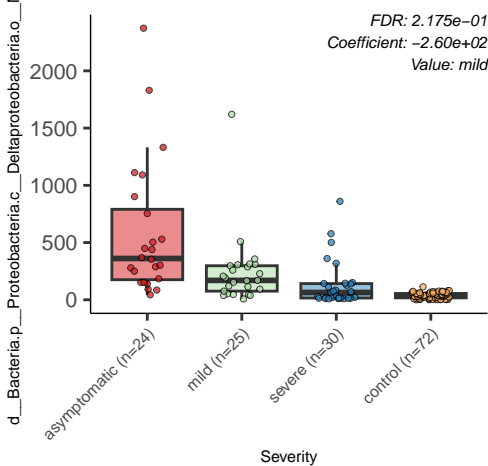


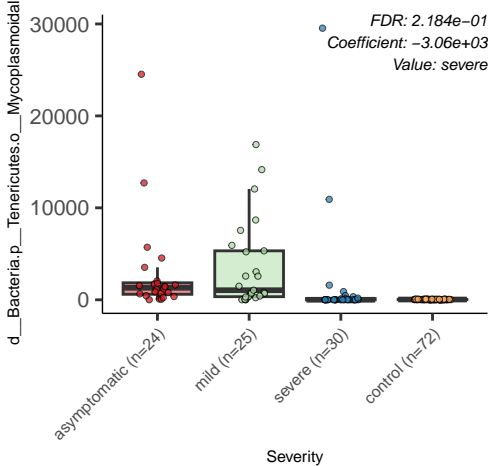
gammaproteobacteria.o__Xanthomonadales.f__Xanthomonadaceae



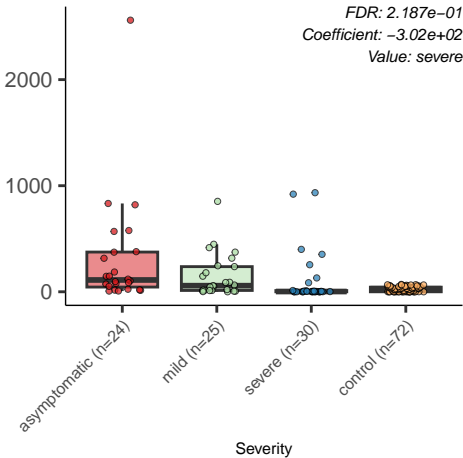




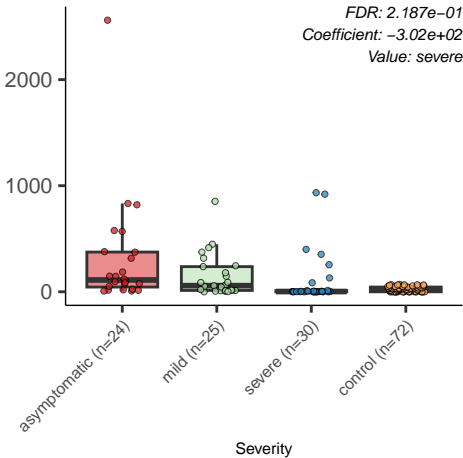


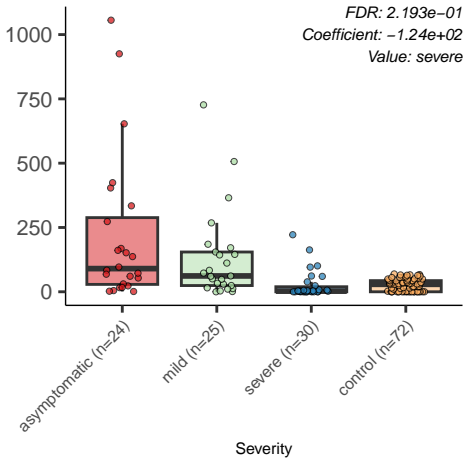


Bacteria.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Oscillosp

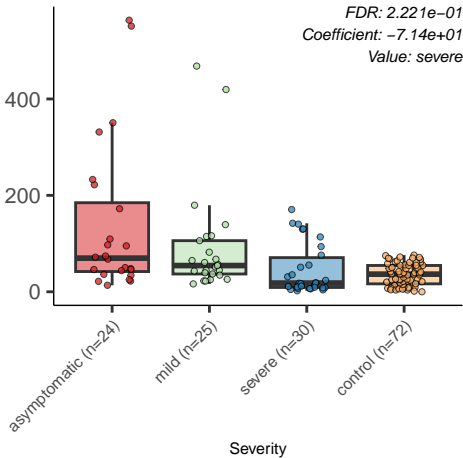


micutes.c__Clostridia.o__Eubacteriales.f__Oscillospiraceae.g__Ma

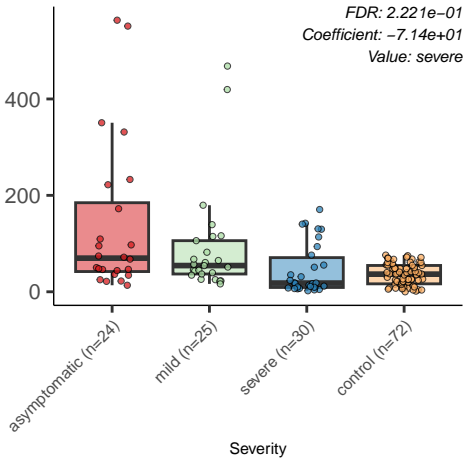




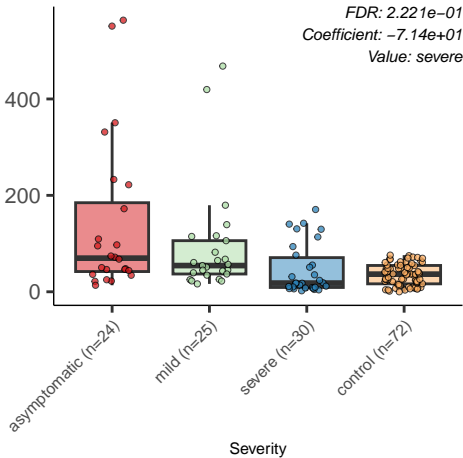
d__Bacteria.p__Armatimonadetes.c__Fimbrimona



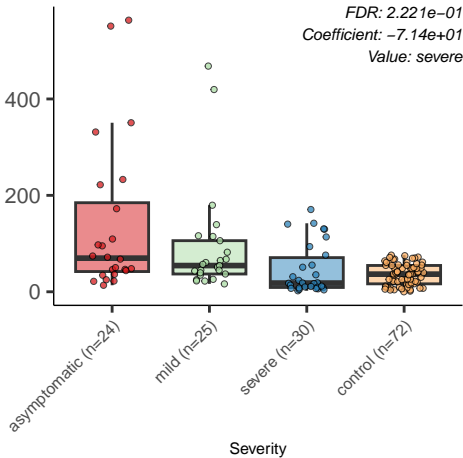
d_Bacteria.p_Armatimonadetes.c_Fimbrimonadia.o_Fin



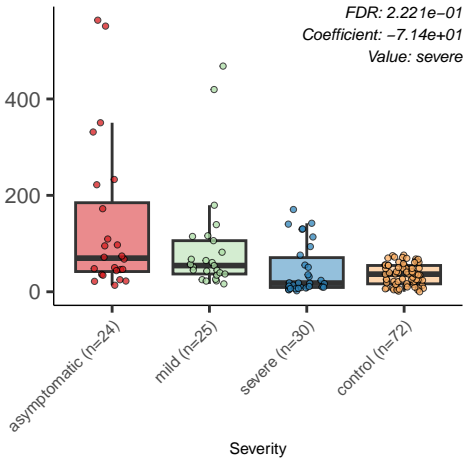
acteria.p__Armatimonadetes.c__Fimbriimonadia.o__Fimbriimonada

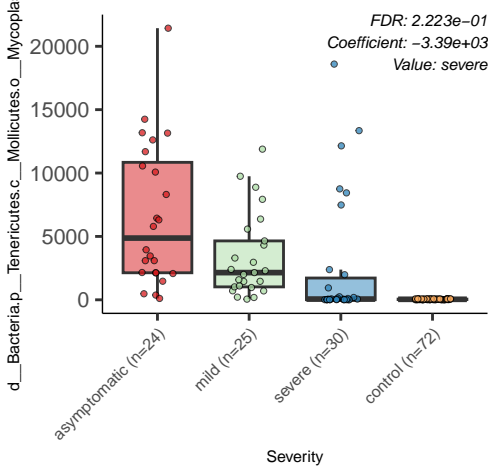


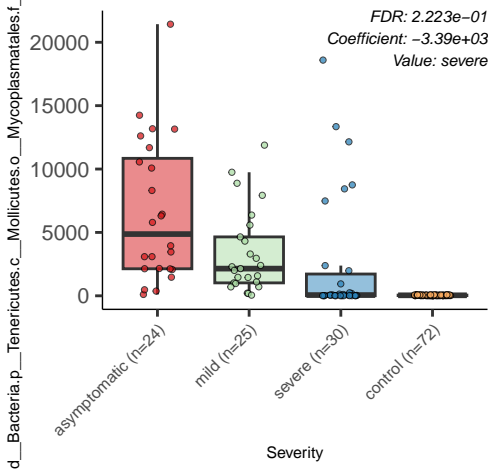
Armatimonadetes.c_Fimbrimonadia.o_Fimbrimonadales.f_Fi



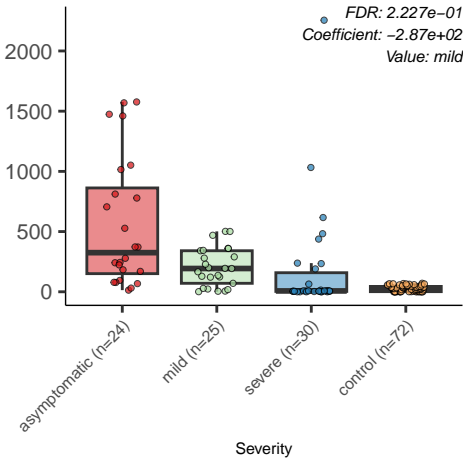
detes.c__Fimbriimonadia.o__Fimbriimonadales.f__Fimbriimonadace

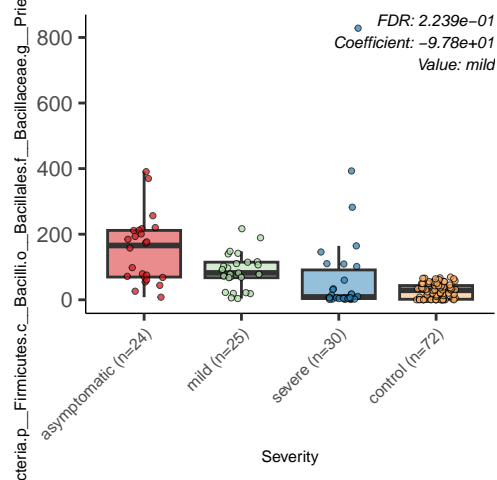


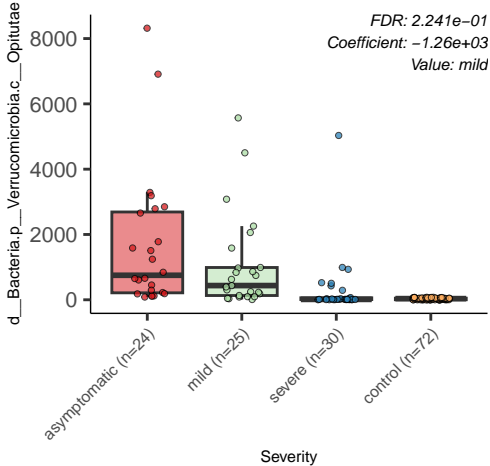


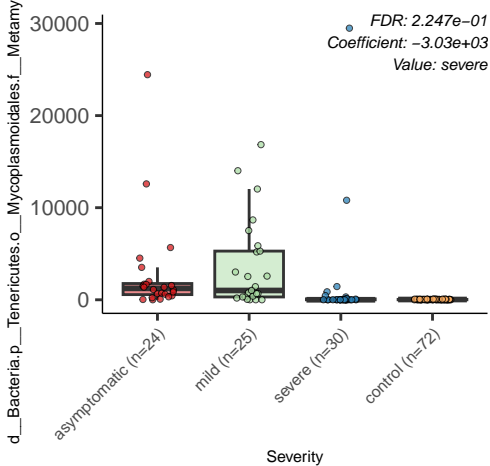


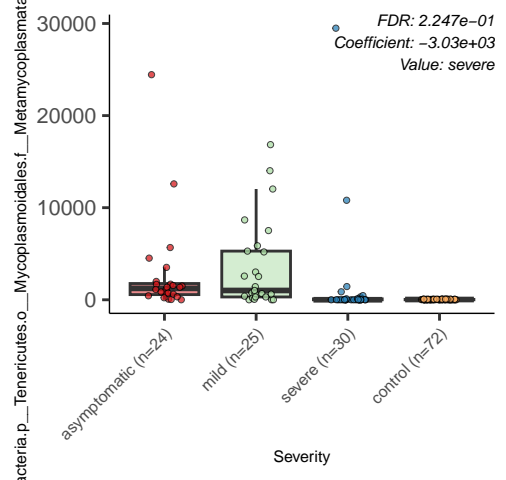
Bacteria.p_Firmicutes.c_Bacilli.o_Lactobacillales.f_Enterococ

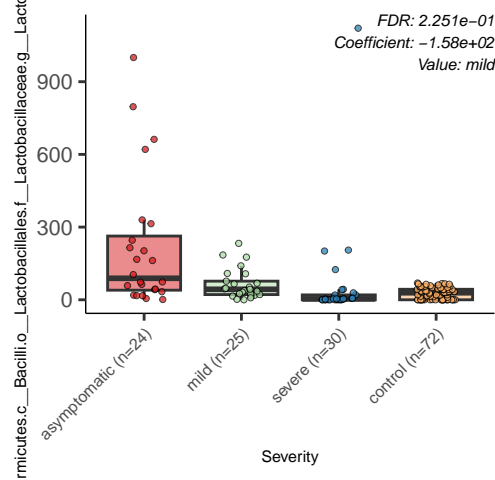




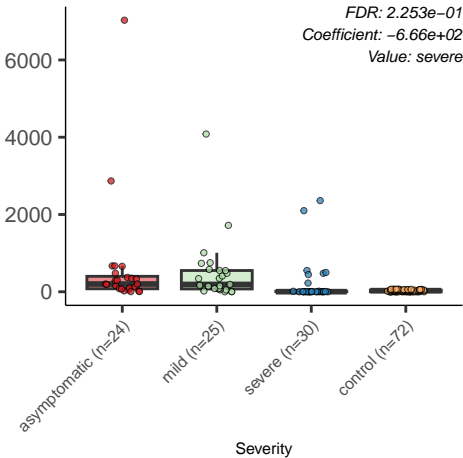




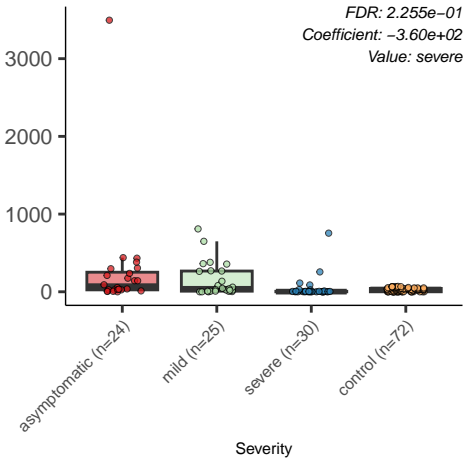


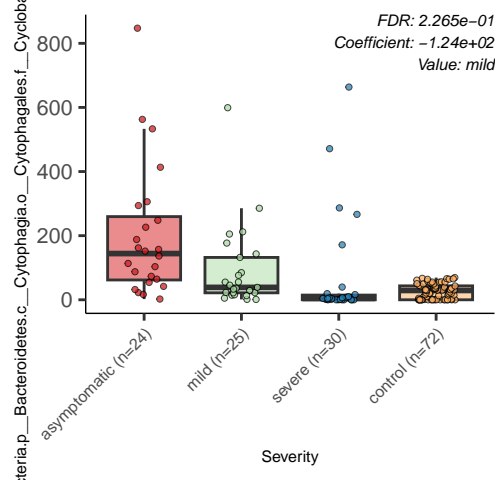


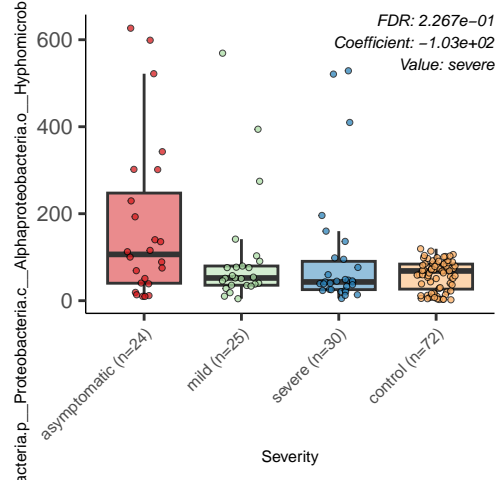
a.p_Firmicutes.c_Clostridia.o_Eubacteriales.f_Lachnospiraceae



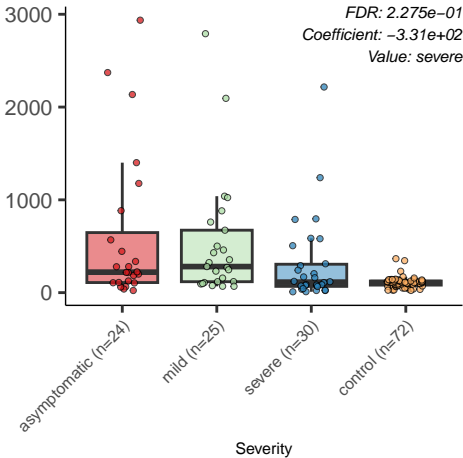
Firmicutes.c__Clostridia.o__Eubacteriales.f__Clostridiaceae.g__

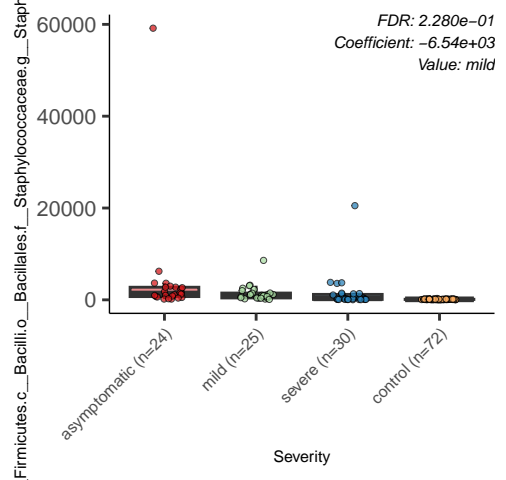


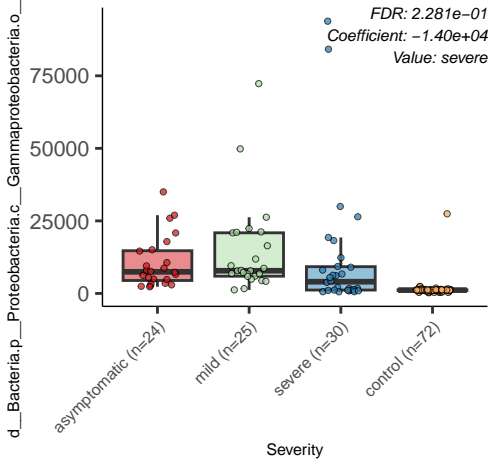


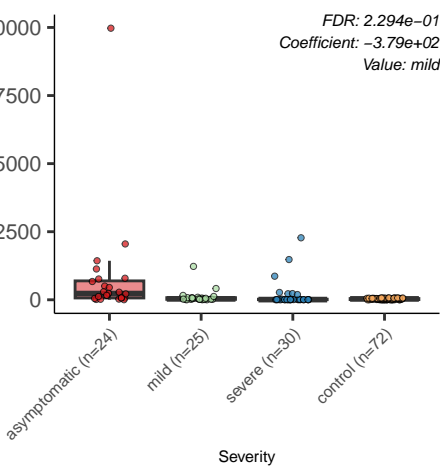


a.c._Alphaproteobacteria.o__Hyphomicrobiales.f__Rhizobiaceae.g

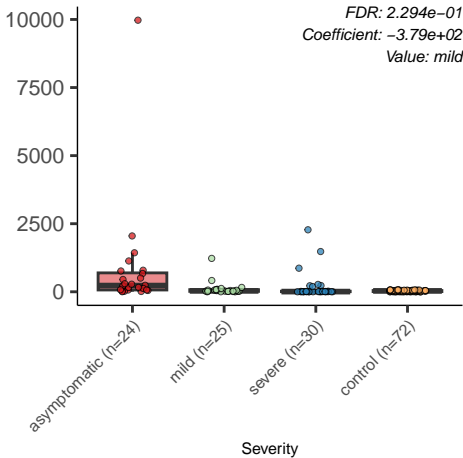


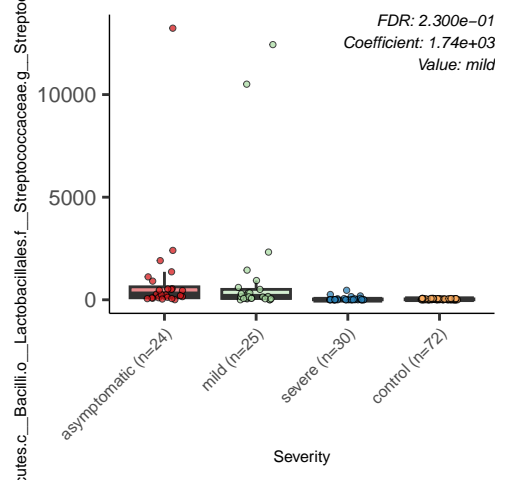


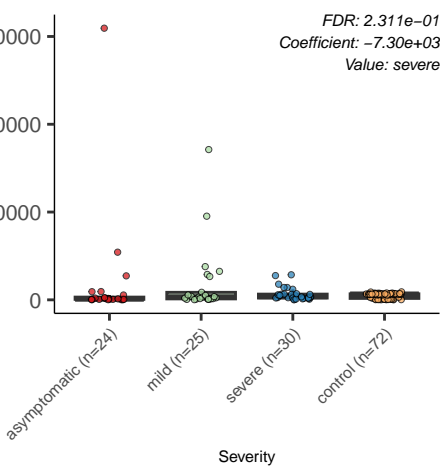


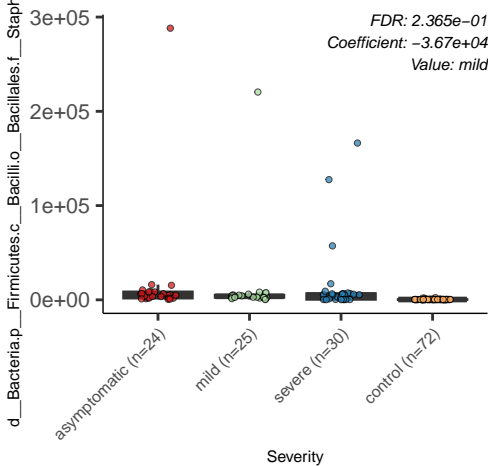


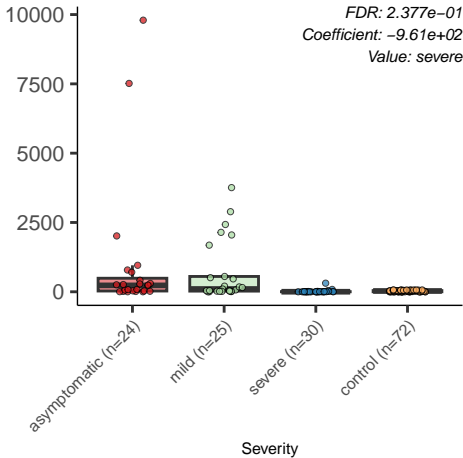
bacteria.c_Actinomycetia.o_Actinomycetales.f_Actinomycetaceae

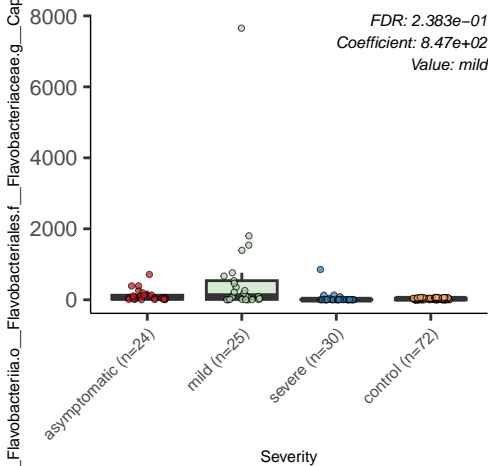


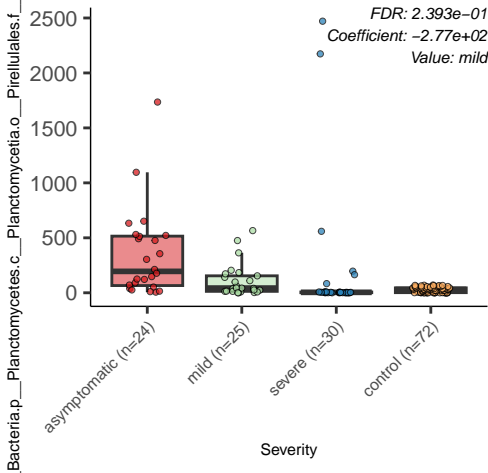


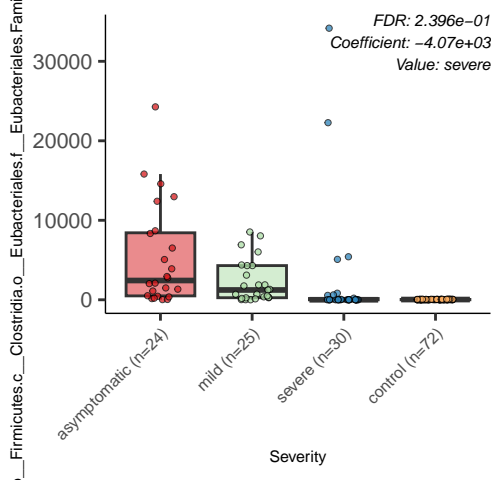


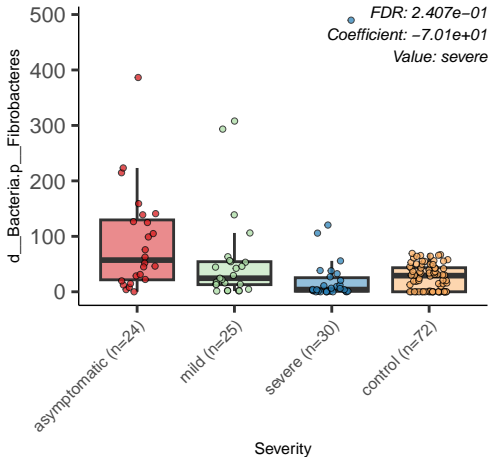


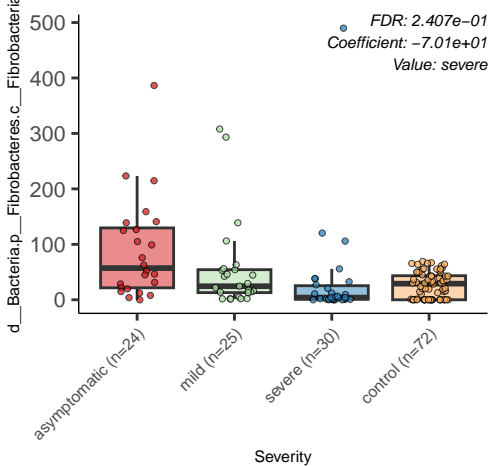


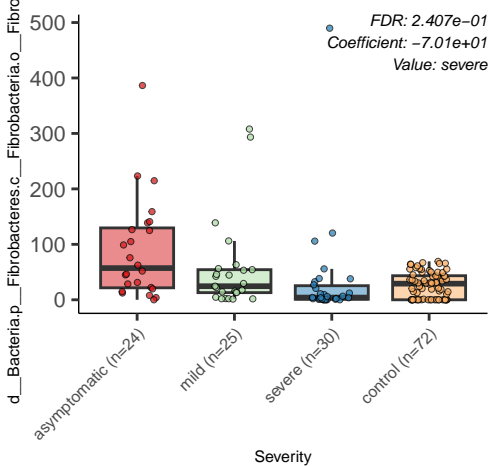


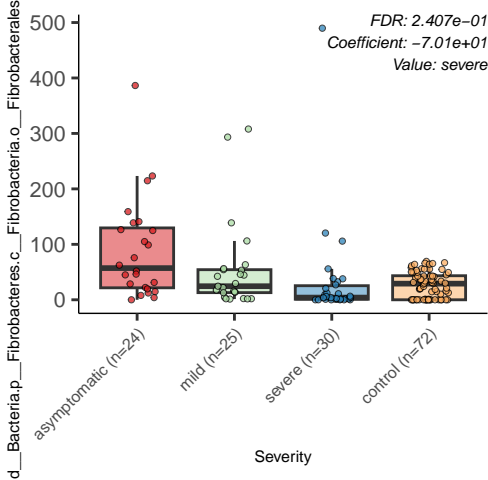


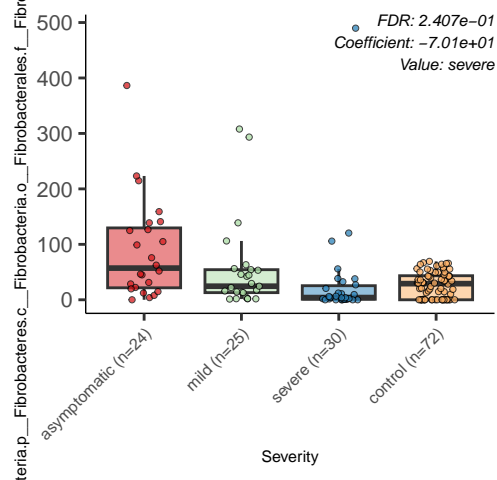




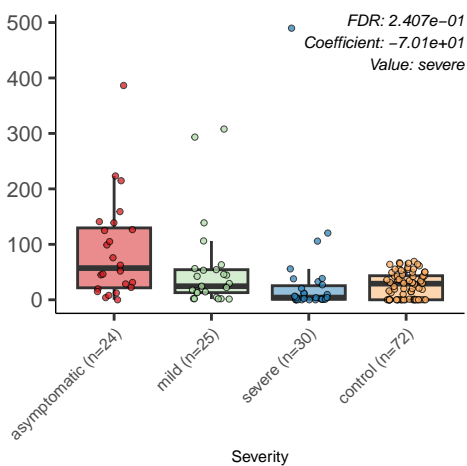


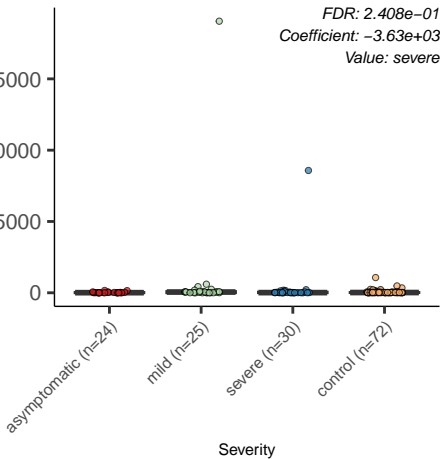


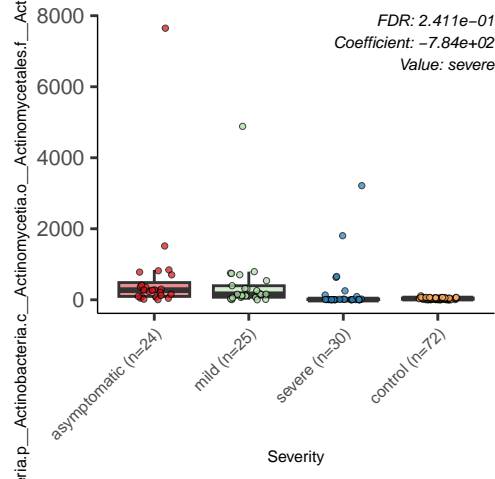


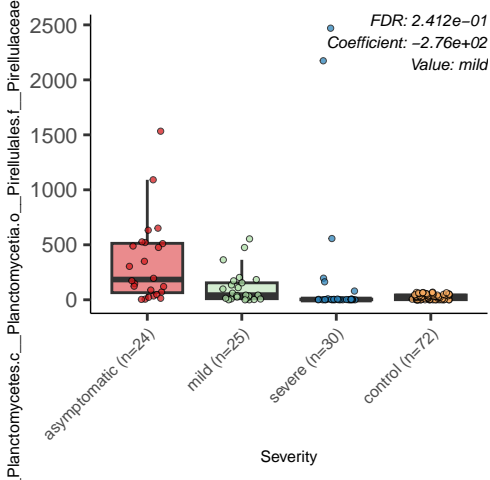


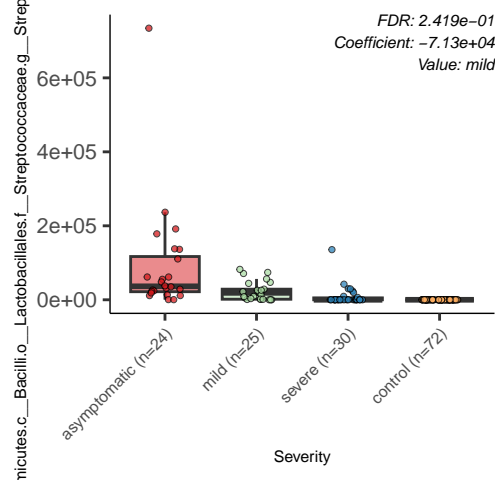
acteres.c__Fibrobacteria.o__Fibrobacterales.f__Fibrobacteraceae.g

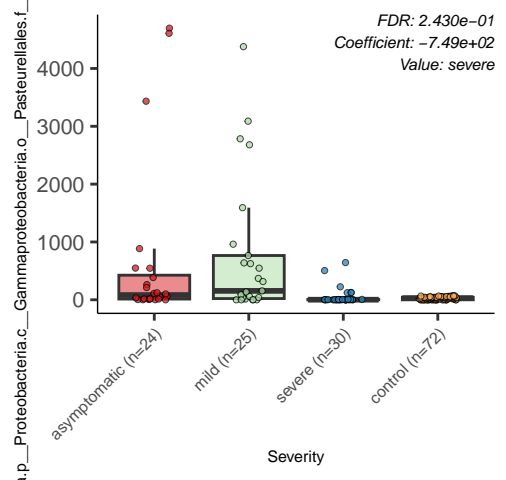






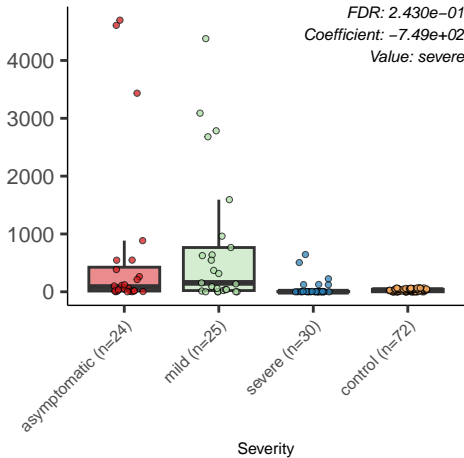


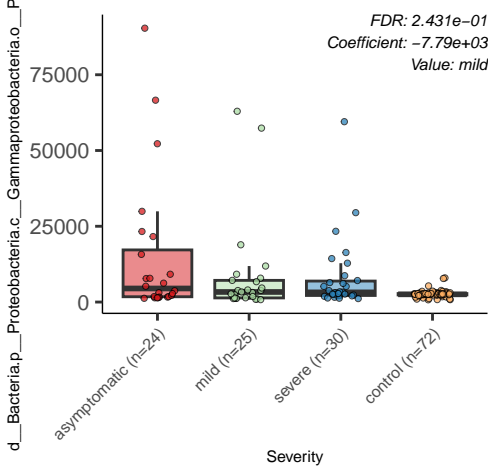


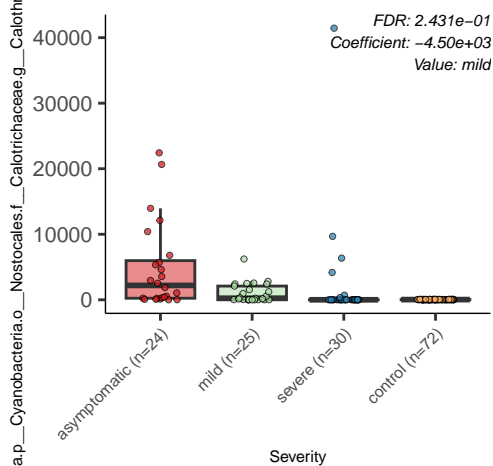


acteria.c__Gammaproteobacteria.o__Pasteurellales.f__Pasteurellae

FDR: 2.430e-01
Coefficient: -7.49e+02
Value: severe







d_Bacteria.p_Bacteroidetes.c__Chitinophagii

FDR: 2.459×10^{-1}
Coefficient: -6.54×10^2
Value: severe

4000
2000
0

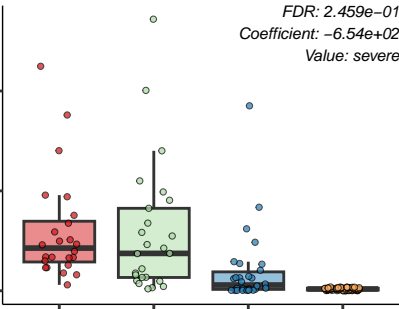
asymptomatic (n=24)

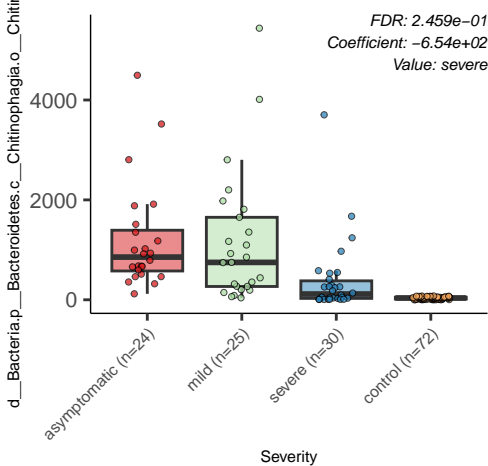
mild (n=25)

severe (n=30)

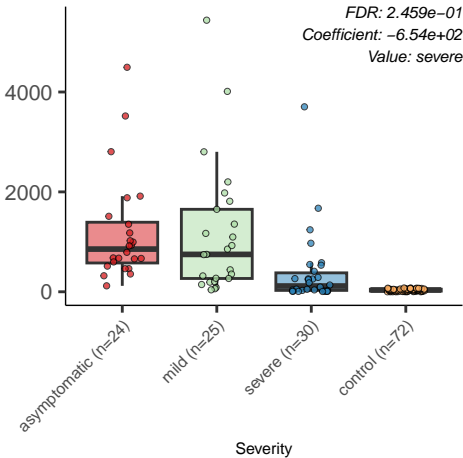
control (n=72)

Severity





4_Bacteria.p_Bacteroidetes.c_Chitinophagia.o_Chitinophagales



eria.p__Proteobacteria.c__Gammaproteobacteria.o__Pseudomona

