Supplementary figures

The Difference in Serum Metabolomic Profiles between the Good and Poor Outcome Groups at 3 Months in the Early and Late Phases of Aneurysmal Subarachnoid Hemorrhage

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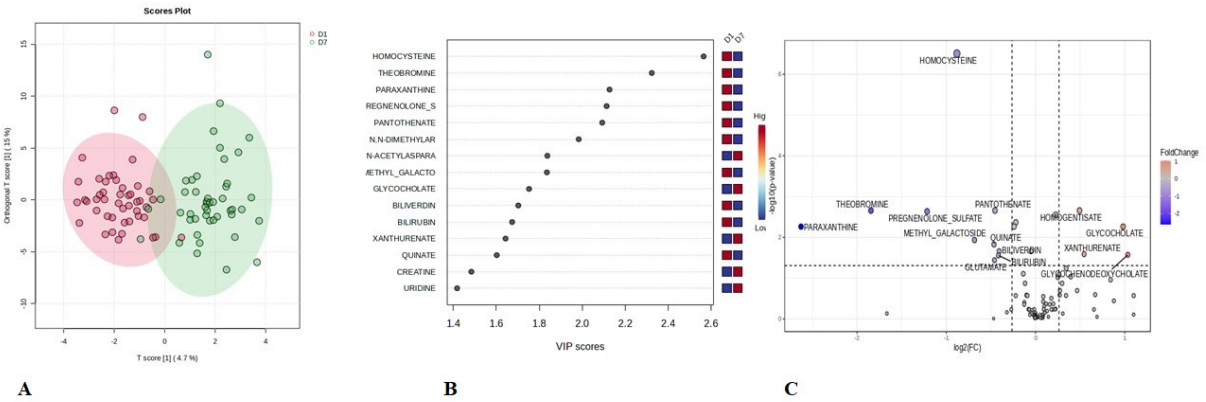
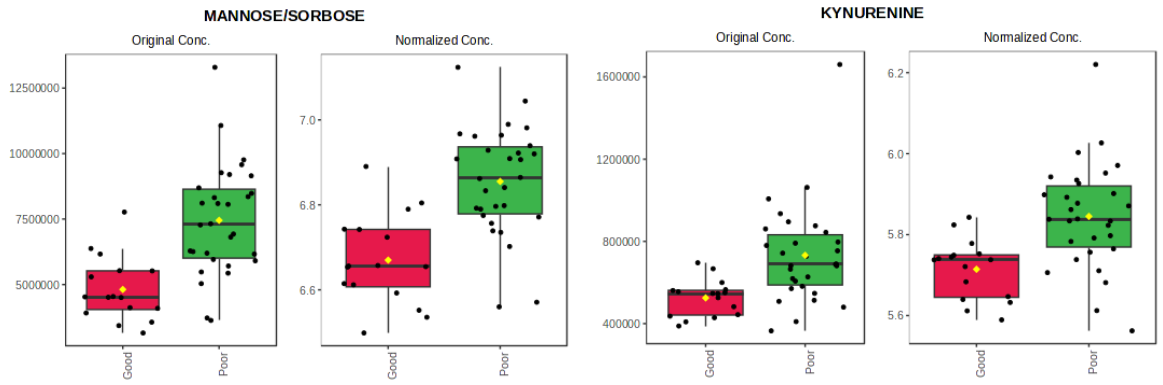
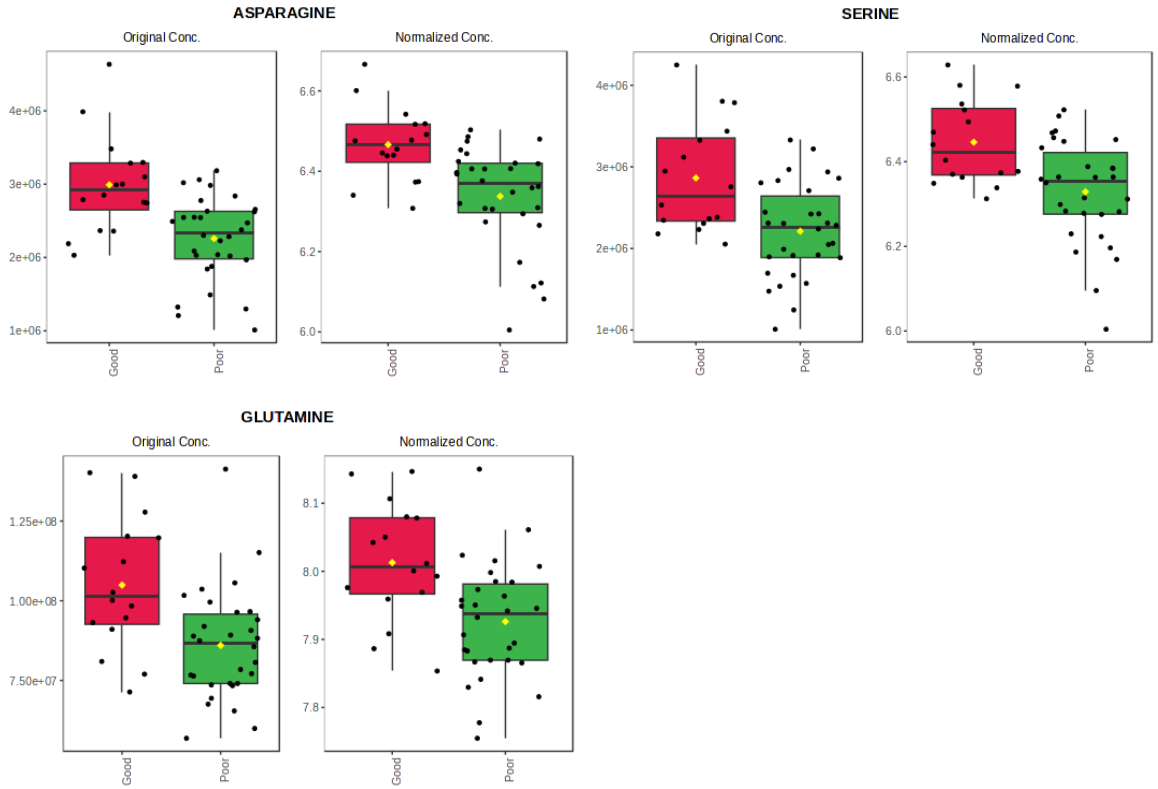


Figure S1. (A) The score plot of the OPLS-DA model. The score plots of the OPLS-DA models. The horizontal axis in the figure is the first principal component, and the vertical axis is the second principal component, The number in parenthesis is the score of that principal component, which indicates the percentage of the overall variance explained by corresponding principal component. (B) VIP value score graph. The vertical coordinate in the graph indicates a metabolite, and the horizontal coordinate indicates

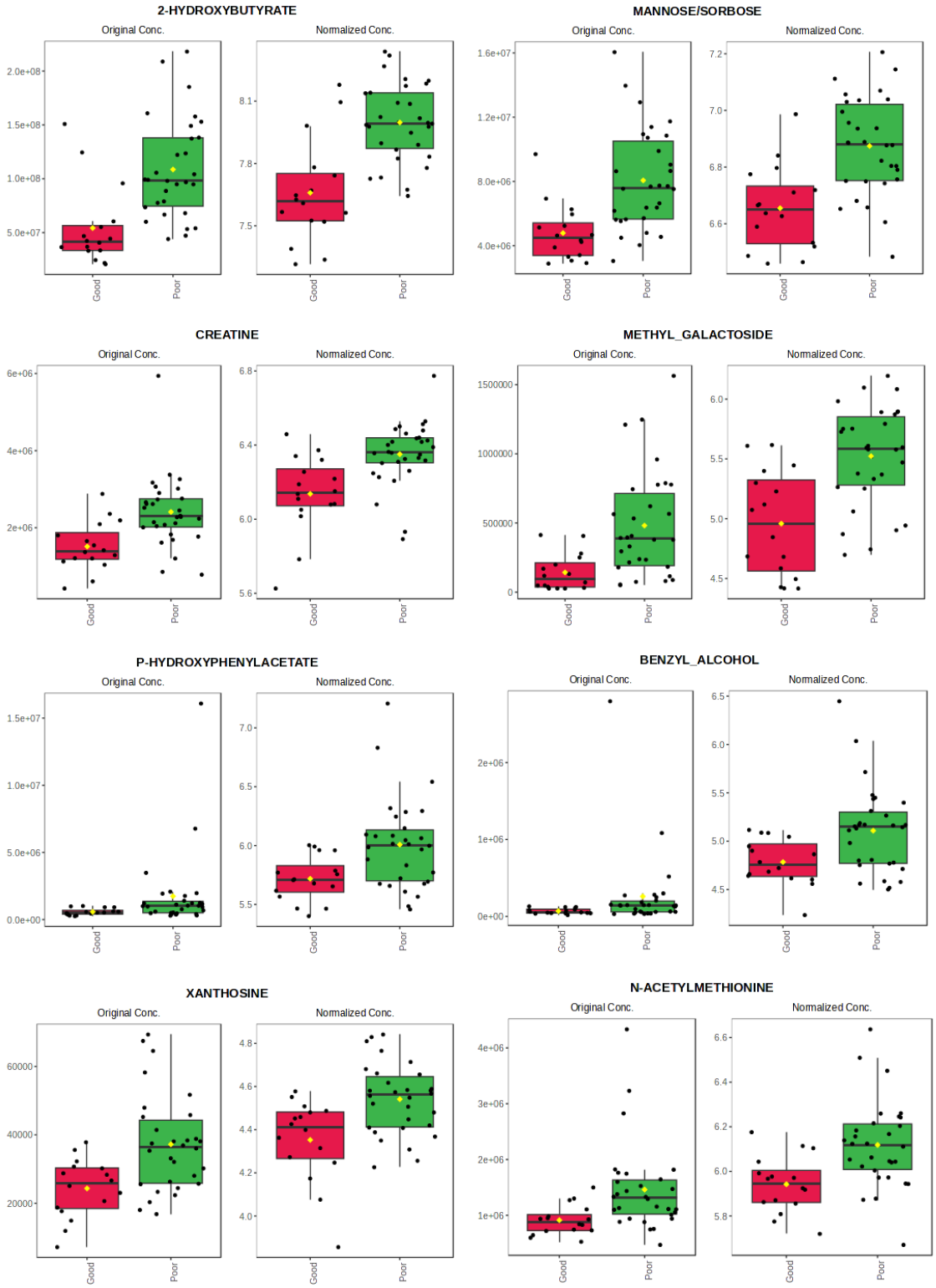
the VIP value. (C) Volcano plots. Red represents up-regulated metabolites, and blue represents down-regulated metabolites. Grey represents meaningless metabolites.

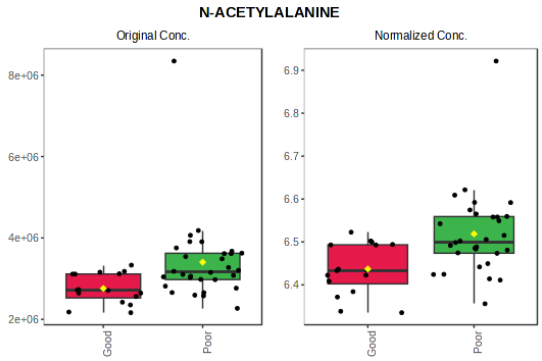


A

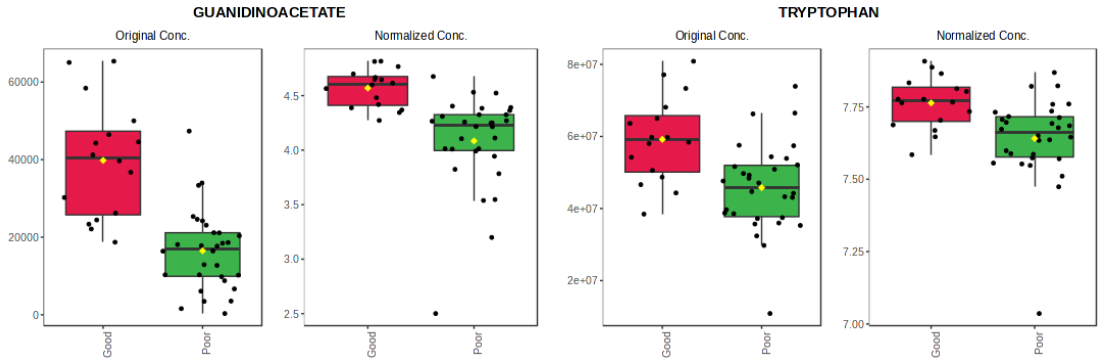


B

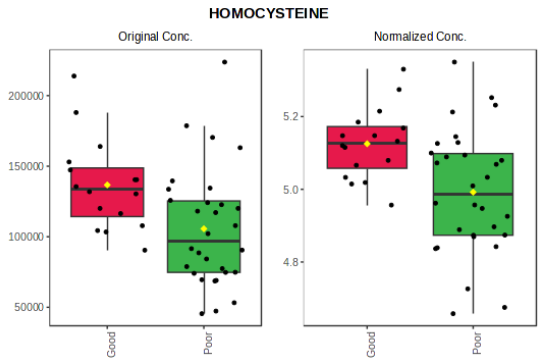

2-HYDROXYBUTYRATE
Original Conc.
Normalized Conc.
MANNOSE/SORBOSE
Original Conc.
Normalized Conc.
CREATINE
Original Conc.
Normalized Conc.
METHYL_GALACTOSIDE
Original Conc.
Normalized Conc.
P-HYDROXYPHENYLACETATE
Original Conc.
Normalized Conc.
BENZYL_ALCOHOL
Original Conc.
Normalized Conc.
XANTHOSINE
Original Conc.
Normalized Conc.
N-ACETYLMETHIONINE
Original Conc.
Normalized Conc.
Good
Poor

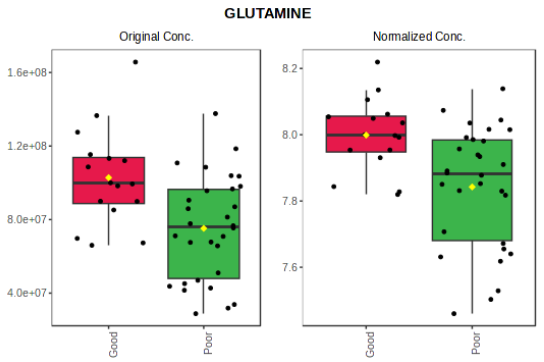

N-ACETYLALANINE
Original Conc.
Normalized Conc.
8e+06
6e+06
4e+06
2e+06
6.9
6.8
6.7
6.6
6.5
6.4
Good
Poor

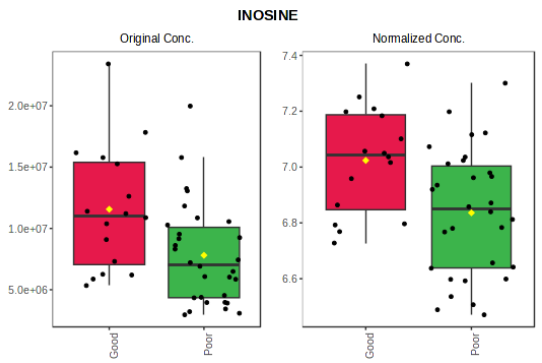
C

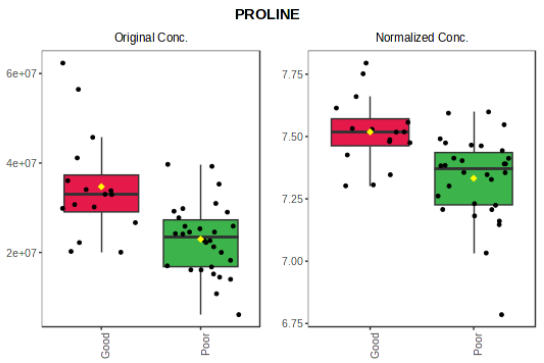

GUANIDINOACETATE
Original Conc.
Normalized Conc.
60000
40000
20000
0
4.5
4.0
3.5
3.0
2.5
Good
Poor

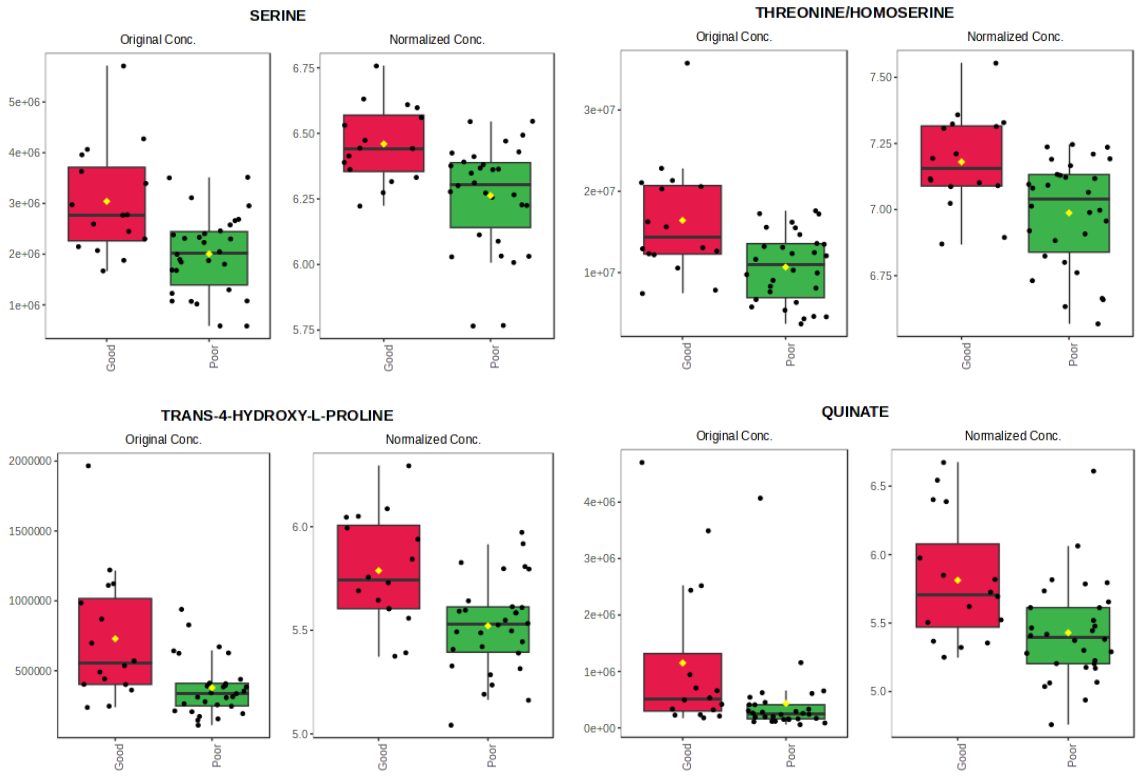
TRYPTOPHAN
Original Conc.
Normalized Conc.
8e+07
6e+07
4e+07
2e+07
7.75
7.50
7.25
7.00
Good
Poor


HOMOCYSTEINE
Original Conc.
Normalized Conc.
200000
150000
100000
50000
5.2
5.0
4.8
Good
Poor


GLUTAMINE
Original Conc.
Normalized Conc.
1.6e+08
1.2e+08
8.0e+07
4.0e+07
8.2
8.0
7.8
7.6
Good
Poor

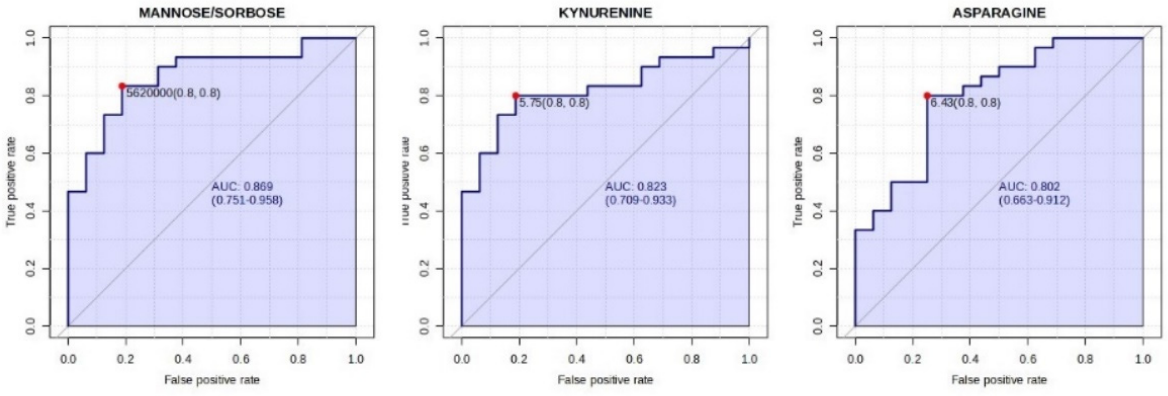

INOSINE
Original Conc.
Normalized Conc.
2.0e+07
1.5e+07
1.0e+07
5.0e+06
7.4
7.2
7.0
6.8
6.6
Good
Poor


PROLINE
Original Conc.
Normalized Conc.
6e+07
4e+07
2e+07
7.75
7.50
7.25
7.00
6.75
Good
Poor

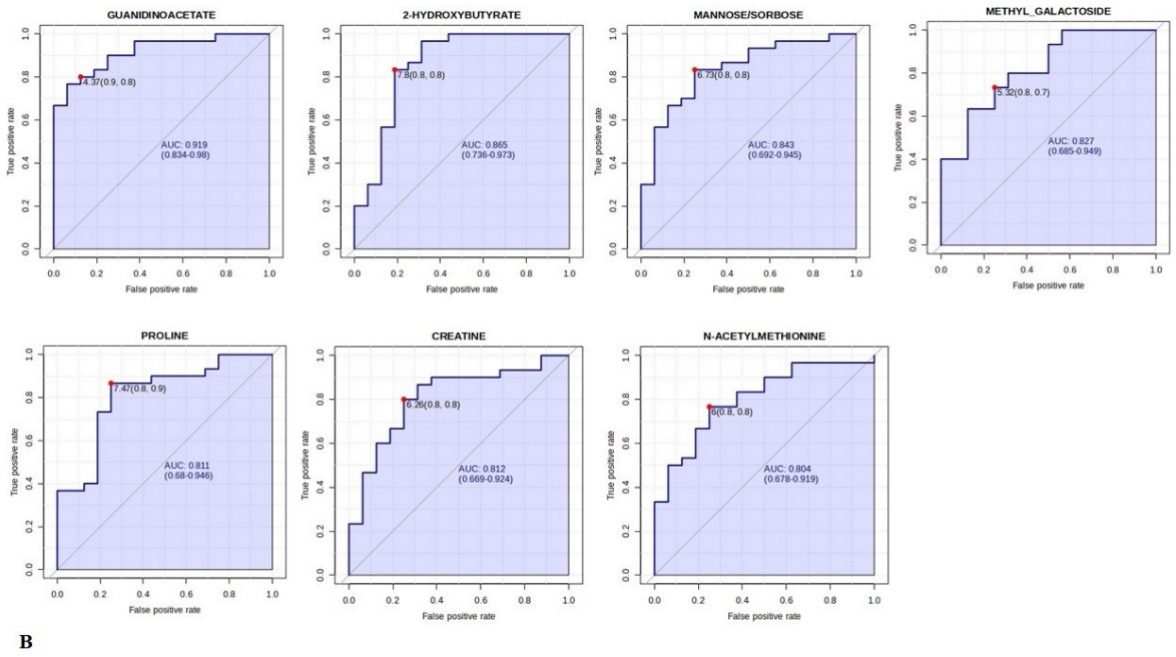


D

Figure S2. Comparison of differential metabolite intensities between the good and poor outcome groups on D1 (A) upregulated, (B) downregulated and D7 (C) upregulated, (D) downregulated.



A



B

Figure S3. Differential metabolite ROC curves and cut-off values. (A) D1, (B) D7.