

Predictors of Adverse Pregnancy Outcomes in Pregnant Women Living with Obesity: A Systematic Review

File S1: Database Search Strategies

Database: Embase Classic+Embase <1947 to 2020 March 05>, Ovid MEDLINE(R) ALL <1946 to March 05, 2020>, PsycINFO <1806 to March Week 1 2020>, Joanna Briggs Institute EBP Database - <Current to February 26, 2020>, EBM Reviews - Cochrane Central Register of Controlled Trials <January 2020>, EBM Reviews - Cochrane Database of Systematic Reviews <2005 to March 4, 2020>

Search Strategy:

-
- 1 Pregnancy/ (1629651)
 - 2 exp Pregnancy Complications/ (574252)
 - 3 Pregnant Women/ (78249)
 - 4 exp Pregnancy Trimesters/ (835936)
 - 5 pregnan*.tw,kw. (1320762)
 - 6 Prenatal Care/ (70527)
 - 7 (prenatal* or antenatal* or ante natal* or antepartum or ante partum).tw,kw. (356488)
 - 8 or/1-7 [PREGNANCY] (2313745)
 - 9 exp Overweight/ (773480)
 - 10 (obesity* or obese or overweight or over weight or adiposit*).tw,kw. (899327)
 - 11 (body adj2 (size* or shape* or weight* or fat* or silhouette*)).tw,kw. (714530)
 - 12 exp Adipose Tissue/ (271847)
 - 13 exp Body Fat Distribution/ (21902)
 - 14 ((abdominal* or central* or subcutaneous*) adj2 (obes* or fat* or adipos*)).tw,kw. (100944)
 - 15 Anthropometry/ (97255)
 - 16 Waist Circumference/ or Waist-Hip Ratio/ or Waist-Height Ratio/ (74903)
 - 17 Skinfold Thickness/ (20075)
 - 18 (anthropometr* or BMI or BMIs or skinfold* or SFT or SFTs).tw,kw. (614662)
 - 19 (waist* adj2 (circumference* or hip* or height or thigh*)).tw,kw. (105266)
 - 20 (waisthip or waistheight or waistthigh or WHR or WHtR or WTR).tw,kw. (16319)
 - 21 or/9-20 [ADIPOSIY] (2155529)
 - 22 8 and 21 [ADIPOSIY IN PREGNANCY] (127128)
 - 23 exp Animals/ not (exp Animals/ and Humans/) (18145733)
 - 24 22 not 23 [ANIMAL-ONLY REMOVED] (72726)
 - 25 (comment or editorial or interview or news or newspaper article).pt. (2066673)
 - 26 (letter not (letter and randomized controlled trial)).pt. (2164882)
 - 27 24 not (25 or 26) [OPINION PIECES REMOVED] (71150)
 - 28 exp Risk/ (3665410)
 - 29 (risk or risked or risks or risky or risking or risk-related).tw,kw. (5946921)
 - 30 predict*.tw,kw. (4167721)
 - 31 logistic*.tw,kw. (856074)
 - 32 (logit* adj1 model*).tw,kw. (6575)
 - 33 Prevalence/ (990248)
 - 34 prevalen*.tw,kw. (1984134)
 - 35 Pregnancy Complications/ep [epidemiology] (12669)
 - 36 or/28-35 [RISK/PREDICTION] (11650984)

37 27 and 36 (39093)
 38 Pregnancy Outcome/ (110912)
 39 ((pregnan* or prenatal* or antenatal* or ante natal* or antepartum or ante partum or perinatal* or peripartum) adj3 outcome*).tw,kw. (118174)
 40 ((maternal* or mother* or baby or babies or f?etal* or f?etus* or neonat* or newborn*) adj3 outcome*).tw,kw. (88341)
 41 exp Pregnancy Complications/mo [mortality] (6721)
 42 Maternal Mortality/ (33772)
 43 Fetal Mortality/ (5032)
 44 Perinatal Mortality/ (16632)
 45 (mortalit* or death* or fatal*).tw,kw. (3957410)
 46 exp Fetal Death/ (74852)
 47 ((baby or babies or f?etal or f?etus* or neonat* or newborn*) adj3 (dead or demise? or died or dying)).tw,kw. (18096)
 48 (stillbirth* or stillborn*).tw,kw. (39507)
 49 exp Abortion, Spontaneous/ (80320)
 50 ((abort* adj2 spontaneous*) or miscarriage? or (recur* adj2 loss*) or (habit* adj2 abort*)).tw,kw. (75747)
 51 exp Hospitalization/ (639998)
 52 hospitali*.tw,kw. (746337)
 53 ((admit* or admission* or readmit* or readmission*) adj3 (hospital? or critical care or intensive care or ICU or ICUs or NICU or NICUs or SICU or SICUs)).tw,kw. (389590)
 54 exp Hypertension, Pregnancy-Induced/ (55111)
 55 ((eclamp* or hypertensi* or preeclamp* or pre-eclamp* or toxemi* or toxaemi* or EPH or hemolys#s) adj3 (gestational* or maternal* or "new onset" or pregnancy-induced)).tw,kw. (31785)
 56 PIH.tw,kw. (5310)
 57 HELLP.tw,kw. (6878)
 58 exp Diabetes, Gestational/ (49429)
 59 ((diabet* or DM or T2DM) adj3 (gestational* or maternal* or "new onset" or pregnancy-induced)).tw,kw. (57931)
 60 PID.tw,kw. (13056)
 61 macrosomi*.tw,kw. (11229)
 62 Venous Thromboembolism/ (47161)
 63 (DVT or thromboemboli* or VTE).tw,kw. (188930)
 64 exp Placenta Diseases/ (45964)
 65 Placental Circulation/ (7099)
 66 (placenta* adj3 (abnormal* or disease* or disorder* or dysfunction*)).tw,kw. (13087)
 67 (placenta* adj2 mediate*).tw,kw. (1149)
 68 Fetal Growth Retardation/ (33493)
 69 ((f?etal or f?etus* or intrauterin*) adj grow* adj3 (restrict* or retard*)).tw,kw. (44703)
 70 (FGR or IUGR).tw,kw. (20519)
 71 Premature Birth/ (81916)
 72 (preterm or prematur*).tw,kw. (532367)
 73 exp Cesarean Section/ (149360)
 74 (cesarean* or caesarean*).tw,kw. (164121)

75 (C-section* or Csection*).tw,kw. (5413)
 76 (abdom* adj3 deliver*).tw,kw. (2426)
 77 (postdate* or post-date* or postmatur* or post-matur* or postterm* or post-term*).tw,kw. (9116)
 78 (42 week? or 43 week?).tw,kw. (11165)
 79 ("42 0/7" or "42 1/7" or "42 2/7" or "42 3/7" or "42 4/7" or "42 5/7" or "42 6/7" or "42 7/7" or "43 0/7" or "43 1/7" or "43 2/7" or "43 3/7" or "43 4/7" or "43 5/7" or "43 6/7" or "43 7/7").tw,kw. (670)
 80 Fetal Macrosomia/ (6974)
 81 ("large-for-gestational age" or LGA).tw,kw. (9227)
 82 Congenital Abnormalities/ (46941)
 83 ((birth or congenital) adj3 (abnormal* or anomal* or defect* or deform*)).tw,kw. (159952)
 84 exp Neural Tube Defects/ (61770)
 85 (NTD or NTDs).tw,kw. (10633)
 86 (neural tube? adj2 (defect* or deform* or malform*)).tw,kw. (18102)
 87 (acrani* or craniorachischis* or diastematomyeli* or exencephal* or iniencephal* or neurenteric cyst* or neuroenteric cyst* or occult spinal dysraphism* or spinal cord myelodysplasi* or (tethered adj2 cord syndrome*)).tw,kw. (7305)
 88 (anencephal* or aprosencephal*).tw,kw. (7561)
 89 (congenital*.tw,kw. or cn.fs.) and ((absen* or lack* or missing) adj2 brain*).tw,kw. (122)
 90 (congenital*.tw,kw. or cn.fs.) and ((absen* or lack* or missing) adj2 crani\$2 vault*).tw,kw. (10)
 91 (meroanencephal* or holosanencephal*).tw,kw. (15)
 92 (encephalocele or bifid cranium or cephalocele or cerebellar hernia* or cerebral hernia* or cranial meningoencephalocele or craniocoele or cranium bifidum or notoencephalocele/cranial or tonsillar hernia*).tw,kw. (8218)
 93 (rachischisis or schistorrhachis or status dysraphicus).tw,kw. (483)
 94 ((cleft or open) adj1 (spine? or spinal)).tw,kw. (570)
 95 (spina? adj (bifida? or bifidum? or dysraphia* or dysraphism*)).tw,kw. (21692)
 96 dermal sinus*.tw,kw. (1246)
 97 (Arnold-Chiari adj1 (syndrome* or malform* or deform*)).tw,kw. (2233)
 98 Chiari malformation?.tw,kw. (6198)
 99 (Cantrell* adj1 pentalog*).tw,kw. (171)
 100 ((Cantrell Haller Ravitch or thoracoabdominal) adj syndrome*).tw,kw. (21)
 101 exp Cardiovascular Abnormalities/ (416346)
 102 ((heart or cardiac* or cardio* or aort* or arter* or ventric* or vascular*) adj3 (abnormal* or anomal* or defect* or deform* or malform*)).tw,kw. (277461)
 103 ((septa? or septum) adj3 (abnormal* or anomal* or defect* or deform* or malform*)).tw,kw. (66688)
 104 Cleft Lip/ (32086)
 105 Cleft Palate/ (47211)
 106 (cleft? adj1 (lip or lips or palat*)).tw,kw. (50862)
 107 (congenital fissur* adj1 (lip or lips or palat*)).tw,kw. (0)
 108 ((orofacial or oro facial) adj1 cleft?).tw,kw. (2498)
 109 (labioschis* or cheiloschis* or abioschiz*).tw,kw. (71)
 110 (harelip? or hare lip?).tw,kw. (1679)

111 (palatishis* or palatoschis* or palatoschiz* or palatum fissu*).tw,kw. (324)
 112 Anorectal Malformations/ (3182)
 113 ((anorectal* or ano-rectal*) adj3 (abnormal* or anomal* or atresia* or defect* or deform* or malform* or stenosis*).tw,kw. (6497)
 114 ((anus\$2 or anal\$2) adj3 (abnormal* or anomal* or atresia* or defect* or deform* or malform* or stenosis*).tw,kw. (6133)
 115 ((rectum? or rectal\$2) adj3 (abnormal* or anomal* or atresia* or defect* or deform* or malform* or stenosis*).tw,kw. (4548)
 116 Hydrocephalus/ (63958)
 117 hydrocephal*.tw,kw. (69111)
 118 (aqueductal stenosis* or cerebral ventriculomegal* or Dandy-Walker or Luschka-Magendie foramina atresia* or Hakim\$2).tw,kw. (6345)
 119 exp Limb Deformities, Congenital/ (73214)
 120 ((arm or arms or carpal or carpus or femur* or finger? or foot or feet or fibula? or forearm? or fore arm? or hand or hands or hip or hips or humeral or humerus or knee? or kneecap? or leg or legs or metacarp* or metatars* or patell* or radius or radial or talipes or talipes or tarsal or tibia? or toe or toes or ulna? or wrist?) adj3 (abnormal* or anomal* or defect* or deform* or malform* or reduc*).tw,kw. (107044)
 121 ((limb or limbs) adj3 (abnormal* or anomal* or defect* or deform* or malform* or reduc*).tw,kw. (21351)
 122 (extremity* adj3 (abnormal* or anomal* or defect* or deform* or malform* or reduc*).tw,kw. (6090)
 123 (clubfoot or club foot or clubfeet or club feet).tw,kw. (7899)
 124 (flatfoot or flat foot or flatfeet or flat feet).tw,kw. (5316)
 125 (arachnodactyl* or brachydactyl* or ectromelia* or amelia* or hemimelia* or phocomelia* or sirenomelia* or hyperdactyl* or polydactyl* or polysyndactyl* or syndactyl*).tw,kw. (23028)
 126 Gastroschisis/ (4995)
 127 gastroschis*.tw,kw. (5672)
 128 or/38-127 [OUTCOMES] (6964826)
 129 37 and 128 (24104)
 130 limit 129 to english [Limit not valid in Joanna Briggs Institute EBP Database -; records were retained] (22120)
 131 130 use medall [MEDLINE RECORDS] (10591)
 132 (2019* or 2020*).dt. (1530388)
 133 131 and 132 [MEDLINE UPDATE] (1107)
 134 pregnancy/ (1629651)
 135 exp pregnancy complication/ (574252)
 136 pregnant woman/ (91405)
 137 first trimester pregnancy/ or second trimester pregnancy/ or third trimester pregnancy/ (117954)
 138 pregnan*.tw,kw. (1320762)
 139 prenatal care/ (70527)
 140 (prenatal* or antenatal* or ante natal* or antepartum or ante partum).tw,kw. (356488)
 141 or/134-140 [PREGNANCY] (2307012)
 142 exp obesity/ (764280)

143 (obesity* or obese or overweight or over weight or adiposit*).tw,kw. (899327)
144 (body adj2 (size* or shape* or weight* or fat* or silhouette*)).tw,kw. (714530)
145 exp adipose tissue/ (271847)
146 ((abdominal* or central* or subcutaneous*) adj2 (obes* or fat* or adipos*)).tw,kw.
(100944)
147 anthropometry/ (97255)
148 waist circumference/ or waist hip ratio/ or waist to height ratio/ or weight height ratio/
(75217)
149 skinfold thickness/ (0)
150 (anthropometr* or BMI or BMIs or skinfold* or SFT or SFTs).tw,kw. (614662)
151 (waist* adj2 (circumference* or hip* or height or thigh*)).tw,kw. (105266)
152 (waisthip or waistheight or waistthigh or WHR or WHtR or WTR).tw,kw. (16319)
153 or/142-152 [OBESITY/OVERWEIGHT/ADIPOSIITY] (2148879)
154 141 and 153 [OBESITY/OVERWEIGHT/ADIPOSIITY IN PREGNANCY] (126692)
155 exp animal experimentation/ or exp models animal/ or exp animal experiment/ or
nonhuman/ or exp vertebrate/ (51893912)
156 exp human/ or exp human experimentation/ or exp human experiment/ (40882061)
157 155 not 156 (11013592)
158 154 not 157 [ANIMAL-ONLY REMOVED] (100516)
159 editorial.pt. (1164184)
160 letter.pt. not (letter.pt. and randomized controlled trial/) (2164763)
161 158 not (159 or 160) [OPINION PIECES REMOVED] (98523)
162 risk/ (644320)
163 risk assessment/ (828736)
164 risk factor/ (1894960)
165 (risk or risked or risks or risky or risking or risk-related).tw,kw. (5946921)
166 predict*.tw,kw. (4167721)
167 logistic*.tw,kw. (856074)
168 (logit* adj1 model*).tw,kw. (6575)
169 prevalence/ (990248)
170 prevalen*.tw,kw. (1984134)
171 exp pregnancy complication/ep [Epidemiology] (60810)
172 or/162-171 [RISK] (11452680)
173 161 and 172 (56594)
174 pregnancy outcome/ (110912)
175 ((pregnan* or prenatal* or antenatal* or ante natal* or antepartum or ante partum or
perinatal* or peripartum) adj3 outcome*).tw,kw. (118174)
176 maternal mortality/ (33772)
177 fetus mortality/ (4534)
178 exp perinatal mortality/ (29820)
179 prenatal mortality/ (345)
180 (mortalit* or death* or fatal*).tw,kw. (3957410)
181 exp fetus death/ (45530)
182 ((baby or babies or f?etal or f?etus* or neonat* or newborn*) adj3 (dead or demise? or
died or dying)).tw,kw. (18096)
183 (stillbirth* or stillborn*).tw,kw. (39507)

184 abortion, spontaneous/ (45374)
185 ((abort* adj2 spontaneous*) or miscarriage? or (recur* adj2 loss*) or (habit* adj2 abort*)).tw,kw. (75747)
186 exp hospitalization/ (639998)
187 hospital admission/ (193931)
188 hospitali*.tw,kw. (746337)
189 ((admit* or admission* or readmit* or readmission*) adj3 (hospital? or critical care or intensive care or ICU or ICUs or NICU or NICUs or SICU or SICUs)).tw,kw. (389590)
190 maternal hypertension/ (18121)
191 exp "eclampsia and preeclampsia"/ (63983)
192 ((eclamp* or hypertensi* or preeclamp* or pre-eclamp* or toxemi* or toxaemi* or EPH or hemolys#s) adj3 (gestational* or maternal* or "new onset" or pregnancy-induced)).tw,kw. (31785)
193 PIH.tw,kw. (5310)
194 HELLP syndrome/ (6864)
195 HELLP.tw,kw. (6878)
196 exp pregnancy diabetes mellitus/ (36439)
197 ((diabet* or DM or T2DM) adj3 (gestational* or maternal* or "new onset" or pregnancy-induced)).tw,kw. (57931)
198 PID.tw,kw. (13056)
199 macrosomia/ (6748)
200 macrosomi*.tw,kw. (11229)
201 exp venous thromboembolism/ (168467)
202 (DVT or thromboemboli* or VTE).tw,kw. (188930)
203 exp placenta disorder/ (45964)
204 (placenta* adj3 (abnormal* or disease* or disorder* or dysfunction*)).tw,kw. (13087)
205 (placenta* adj2 mediate*).tw,kw. (1149)
206 exp intrauterine growth retardation/ (59802)
207 ((f?etal or f?etus* or intrauterin*) adj grow* adj3 (restrict* or retard*)).tw,kw. (44703)
208 (FGR or IUGR).tw,kw. (20519)
209 preterm birth/ (61411)
210 (preterm or prematur*).tw,kw. (532367)
211 exp cesarean section/ (149360)
212 (cesarean* or caesarean*).tw,kw. (164121)
213 (C-section* or Csection*).tw,kw. (5413)
214 (abdom* adj3 deliver*).tw,kw. (2426)
215 postmaturity/ (990)
216 (postdate* or post-date* or postmatur* or post-matur* or postterm* or post-term*).tw,kw. (9116)
217 (42 week? or 43 week?).tw,kw. (11165)
218 ("42 0/7" or "42 1/7" or "42 2/7" or "42 3/7" or "42 4/7" or "42 5/7" or "42 6/7" or "42 7/7" or "43 0/7" or "43 1/7" or "43 2/7" or "43 3/7" or "43 4/7" or "43 5/7" or "43 6/7" or "43 7/7").tw,kw. (670)
219 large for gestational age/ (3136)
220 ("large-for-gestational age" or LGA).tw,kw. (9227)
221 congenital disorder/ (87367)

222 ((birth or congenital) adj3 (abnormal* or anomal* or defect* or deform*)).tw,kw. (159952)
 223 neural tube defect/ (22510)
 224 (NTD or NTDs).tw,kw. (10633)
 225 (neural tube? adj2 (defect* or deform* or malform*)).tw,kw. (18102)
 226 (acrani* or craniorachischis* or diastematomyeli* or exencephal* or iniencephal* or neurenteric cyst* or neuroenteric cyst* or occult spinal dysraphism* or spinal cord myelodysplasi* or (tethered adj2 cord syndrome*)).tw,kw. (7305)
 227 (anencephal* or aprosencephal*).tw,kw. (7561)
 228 (congenital*.tw,kw. or cn.fs.) and ((absen* or lack* or missing) adj2 brain*).tw,kw. (122)
 229 (congenital*.tw,kw. or cn.fs.) and ((absen* or lack* or missing) adj2 crani\$2 vault*).tw,kw. (10)
 230 (meroanencephal* or holosanencephal*).tw,kw. (15)
 231 (encephalocele or bifid cranium or cephalocele or cerebellar hernia* or cerebral hernia* or cranial meningoencephalocele or craniocoele or cranium bifidum or notoencephalocelecranial or tonsillar hernia*).tw,kw. (8218)
 232 (rachischisis or schistorrhachis or status dysraphicus).tw,kw. (483)
 233 ((cleft or open) adj1 (spine? or spinal)).tw,kw. (570)
 234 (spina? adj (bifida? or bifidum? or dysraphia* or dysraphism*)).tw,kw. (21692)
 235 dermal sinus*.tw,kw. (1246)
 236 (Arnold-Chiari adj1 (syndrome* or malform* or deform*)).tw,kw. (2233)
 237 Chiari malformation?.tw,kw. (6198)
 238 (Cantrell* adj1 pentalog*).tw,kw. (171)
 239 ((Cantrell Haller Ravitch or thoracoabdominal) adj syndrome*).tw,kw. (21)
 240 exp cardiovascular malformation/ (220636)
 241 ((heart or cardiac* or cardio* or aort* or arter* or ventric* or vascular*) adj3 (abnormal* or anomal* or defect* or deform* or malform*)).tw,kw. (277461)
 242 ((septa? or septum) adj3 (abnormal* or anomal* or defect* or deform* or malform*)).tw,kw. (66688)
 243 cleft lip/ (32086)
 244 cleft palate/ (47211)
 245 (cleft? adj1 (lip or lips or palat*)).tw,kw. (50862)
 246 (congenital fissur* adj1 (lip or lips or palat*)).tw,kw. (0)
 247 ((orofacial or oro facial) adj1 cleft?).tw,kw. (2498)
 248 (abioschiz* or cheiloschis* or labioschis*).tw,kw. (71)
 249 (harelip? or hare lip?).tw,kw. (1679)
 250 (palatishis* or palatoschis* or palatoschiz* or palatum fissu*).tw,kw. (324)
 251 exp anorectal malformation/ (7654)
 252 ((anorectal* or ano-rectal*) adj3 (abnormal* or anomal* or atresia* or defect* or deform* or malform* or stenosis*)).tw,kw. (6497)
 253 ((anus\$2 or anal\$2) adj3 (abnormal* or anomal* or atresia* or defect* or deform* or malform* or stenosis*)).tw,kw. (6133)
 254 ((rectum? or rectal\$2) adj3 (abnormal* or anomal* or atresia* or defect* or deform* or malform* or stenosis*)).tw,kw. (4548)
 255 congenital hydrocephalus/ (22519)
 256 hydrocephal*.tw,kw. (69111)

257 (aqueductal stenosis* or cerebral ventriculomegal* or Dandy-Walker or Luschka-Magendie
 foramina atresia* or Hakim\$2).tw,kw. (6345)
 258 exp limb malformation/ (49459)
 259 ((arm or arms or carpal or carpus or femur* or finger? or foot or feet or fibula? or
 forearm? or fore arm? or hand or hands or hip or hips or humeral or humerus or knee? or
 kneecap? or leg or legs or metacarp* or metatars* or patell* or radius or radial or talipedes or
 talipes or tarsal or tibia? or toe or toes or ulna? or wrist?) adj3 (abnormal* or anomal* or defect*
 or deform* or malform* or reduc*)).tw,kw. (107044)
 260 ((limb or limbs) adj3 (abnormal* or anomal* or defect* or deform* or malform* or
 reduc*)).tw,kw. (21351)
 261 (extremity* adj3 (abnormal* or anomal* or defect* or deform* or malform* or
 reduc*)).tw,kw. (6090)
 262 (clubfoot or club foot or clubfeet or club feet).tw,kw. (7899)
 263 (flatfoot or flat foot or flatfeet or flat feet).tw,kw. (5316)
 264 (arachnodactyl* or brachydactyl* or ectromelia* or amelia* or hemimelia* or
 phocomelia* or sirenomelia* or hyperdactyl* or polydactyl* or polysyndactyl* or
 syndactyl*).tw,kw. (23028)
 265 gastroschisis/ (4995)
 266 gastroschisis.tw,kw. (5672)
 267 or/174-266 [OUTCOMES] (6951111)
 268 173 and 267 (35396)
 269 conference abstract.pt. (3736394)
 270 268 not 269 [CONFERENCE ABSTRACTS REMOVED] (27452)
 271 limit 270 to english [Limit not valid in Joanna Briggs Institute EBP Database -; records
 were retained] (25023)
 272 271 use emcxd [EMBASE RECORDS] (12372)
 273 (2019* or 2020*).dc. (2435396)
 274 272 and 273 [EMBASE UPDATE] (1776)
 275 exp Pregnancy/ (1738327)
 276 pregnan*.tw,kw. (1320762)
 277 exp Prenatal Care/ (183803)
 278 (prenatal* or antenatal* or ante natal* or antepartum or ante partum).tw,kw. (356488)
 279 or/275-278 [PREGNANCY] (2312861)
 280 exp Overweight/ (773480)
 281 (obesity* or obese or overweight or over weight or adipositas*).tw,kw. (899327)
 282 (body adj2 (size* or shape* or weight* or fat* or silhouette*)).tw,kw. (714530)
 283 Body Fat/ (119717)
 284 ((abdominal* or central* or subcutaneous*) adj2 (obese* or fat* or adipositas*)).tw,kw.
 (100944)
 285 Anthropometry/ (97255)
 286 (anthropometr* or BMI or BMIs or skinfold* or SFT or SFTs).tw,kw. (614662)
 287 (waist* adj2 (circumference* or hip* or height or thigh*)).tw,kw. (105266)
 288 (waisthip or waistheight or waistthigh or WHR or WHtR or WTR).tw,kw. (16319)
 289 or/280-288 [ADIPOSITAS] (2072808)
 290 279 and 289 [ADIPOSITAS IN PREGNANCY] (122676)
 291 exp Animals/ not (exp Animals/ and Humans/) (18145733)

292 290 not 291 [ANIMAL-ONLY REMOVED] (70979)
 293 Risk Factors/ (1530338)
 294 Risk Assessment/ (828736)
 295 Predisposition/ (97318)
 296 (risk or risked or risks or risky or risking or risk-related).tw,kw. (5946921)
 297 predict*.tw,kw. (4167721)
 298 logistic*.tw,kw. (856074)
 299 (logit* adj1 model*).tw,kw. (6575)
 300 prevalen*.tw,kw. (1984134)
 301 or/293-300 [RISK/PREDICTION] (11243979)
 302 292 and 301 (38222)
 303 Pregnancy Outcomes/ (53746)
 304 ((pregnan* or prenatal* or antenatal* or ante natal* or antepartum or ante partum or perinatal* or peripartum) adj3 outcome*).tw,kw. (118174)
 305 ((maternal* or mother* or baby or babies or f?etal* or f?etus* or neonat* or newborn*) adj3 outcome*).tw,kw. (88341)
 306 Mortality Rate/ (101821)
 307 (mortalit* or death* or fatal*).tw,kw. (3957410)
 308 ((baby or babies or f?etal or f?etus* or neonat* or newborn*) adj3 (dead or demise? or died or dying)).tw,kw. (18096)
 309 (stillbirth* or stillborn*).tw,kw. (39507)
 310 Spontaneous Abortion/ (64685)
 311 ((abort* adj2 spontaneous*) or miscarriage? or (recur* adj2 loss*) or (habit* adj2 abort*)).tw,kw. (75747)
 312 exp Hospitalization/ (639998)
 313 hospitali*.tw,kw. (746337)
 314 ((admit* or admission* or readmit* or readmission*) adj3 (hospital? or critical care or intensive care or ICU or ICUs or NICU or NICUs or SICU or SICUs)).tw,kw. (389590)
 315 Preeclampsia/ (89401)
 316 ((eclamp* or hypertensi* or preeclamp* or pre-eclamp* or toxemi* or toxaemi* or EPH or hemolys#s) adj3 (gestational* or maternal* or "new onset" or pregnancy-induced)).tw,kw. (31785)
 317 PIH.tw,kw. (5310)
 318 HELLP.tw,kw. (6878)
 319 Gestational Diabetes/ (43167)
 320 ((diabet* or DM or T2DM) adj3 (gestational* or maternal* or "new onset" or pregnancy-induced)).tw,kw. (57931)
 321 PID.tw,kw. (13056)
 322 macrosomi*.tw,kw. (11229)
 323 Embolisms/ (14060)
 324 (DVT or thromboemboli* or VTE).tw,kw. (188930)
 325 (placenta* adj3 (abnormal* or disease* or disorder* or dysfunction*)).tw,kw. (13087)
 326 (placenta* adj2 mediate*).tw,kw. (1149)
 327 ((f?etal or f?etus* or intrauterin*) adj grow* adj3 (restrict* or retard*)).tw,kw. (44703)
 328 (FGR or IUGR).tw,kw. (20519)
 329 Premature Birth/ (81916)

330 (preterm or prematur*).tw,kw. (532367)
 331 Caesarean Birth/ (101937)
 332 (cesarean* or caesarean*).tw,kw. (164121)
 333 (C-section* or Csection*).tw,kw. (5413)
 334 (abdom* adj3 deliver*).tw,kw. (2426)
 335 (postdate* or post-date* or postmatur* or post-matur* or postterm* or post-term*).tw,kw. (9116)
 336 (42 week? or 43 week?).tw,kw. (11165)
 337 ("42 0/7" or "42 1/7" or "42 2/7" or "42 3/7" or "42 4/7" or "42 5/7" or "42 6/7" or "42 7/7" or "43 0/7" or "43 1/7" or "43 2/7" or "43 3/7" or "43 4/7" or "43 5/7" or "43 6/7" or "43 7/7").tw,kw. (670)
 338 ("large-for-gestational age" or LGA).tw,kw. (9227)
 339 Congenital Disorders/ (87367)
 340 ((birth or congenital) adj3 (abnormal* or anomal* or defect* or deform*)).tw,kw. (159952)
 341 (NTD or NTDs).tw,kw. (10633)
 342 (neural tube? adj2 (defect* or deform* or malform*)).tw,kw. (18102)
 343 (acrani* or craniorachischis* or diastatomyeli* or exencephal* or iniencephal* or neuroenteric cyst* or neuroenteric cyst* or occult spinal dysraphism* or spinal cord myelodysplasi* or (tethered adj2 cord syndrome*)).tw,kw. (7305)
 344 (anencephal* or aprosencephal*).tw,kw. (7561)
 345 (congenital*.tw,kw. or cn.fs.) and ((absen* or lack* or missing) adj2 brain*).tw,kw. (122)
 346 (congenital*.tw,kw. or cn.fs.) and ((absen* or lack* or missing) adj2 crani\$2 vault*).tw,kw. (10)
 347 (meroanencephal* or holosanencephal*).tw,kw. (15)
 348 (encephalocele or bifid cranium or cephalocele or cerebellar hernia* or cerebral hernia* or cranial meningoencephalocele or craniocoele or cranium bifidum or notoencephalocelecranial or tonsillar hernia*).tw,kw. (8218)
 349 (rachischis or schistorrhachis or status dysraphicus).tw,kw. (483)
 350 ((cleft or open) adj1 (spine? or spinal)).tw,kw. (570)
 351 Spina Bifida/ (16441)
 352 (spina? adj (bifida? or bifidum? or dysraphia* or dysraphism*)).tw,kw. (21692)
 353 dermal sinus*.tw,kw. (1246)
 354 (Arnold-Chiari adj1 (syndrome* or malform* or deform*)).tw,kw. (2233)
 355 Chiari malformation?.tw,kw. (6198)
 356 (Cantrell* adj1 pentalog*).tw,kw. (171)
 357 ((Cantrell Haller Ravitch or thoracoabdominal) adj syndrome*).tw,kw. (21)
 358 ((heart or cardiac* or cardio* or aort* or arter* or ventric* or vascular*) adj3 (abnormal* or anomal* or defect* or deform* or malform*)).tw,kw. (277461)
 359 ((septa? or septum) adj3 (abnormal* or anomal* or defect* or deform* or malform*)).tw,kw. (66688)
 360 Cleft Palate/ (47211)
 361 (cleft? adj1 (lip or lips or palat*)).tw,kw. (50862)
 362 (congenital fissur* adj1 (lip or lips or palat*)).tw,kw. (0)
 363 ((orofacial or oro facial) adj1 cleft?).tw,kw. (2498)
 364 (labioschis* or cheiloschis* or abioschiz*).tw,kw. (71)

365 (harelip? or hare lip?).tw,kw. (1679)
 366 (palatishis* or palatoschis* or palatoschiz* or palatum fissu*).tw,kw. (324)
 367 ((anorectal* or ano-rectal*) adj3 (abnormal* or anomal* or atresia* or defect* or deform* or malform* or stenosis*).tw,kw. (6497)
 368 ((anus\$2 or anal\$2) adj3 (abnormal* or anomal* or atresia* or defect* or deform* or malform* or stenosis*).tw,kw. (6133)
 369 ((rectum? or rectal\$2) adj3 (abnormal* or anomal* or atresia* or defect* or deform* or malform* or stenosis*).tw,kw. (4548)
 370 Hydrocephalus/ (63958)
 371 hydrocephal*.tw,kw. (69111)
 372 (aqueductal stenosis* or cerebral ventriculomegal* or Dandy-Walker or Luschka-Magendie foramina atresia* or Hakim\$2).tw,kw. (6345)
 373 ((arm or arms or carpal or carpus or femur* or finger? or foot or feet or fibula? or forearm? or fore arm? or hand or hands or hip or hips or humeral or humerus or knee? or kneecap? or leg or legs or metacarp* or metatars* or patell* or radius or radial or talipes or talipes or tarsal or tibia? or toe or toes or ulna? or wrist?) adj3 (abnormal* or anomal* or defect* or deform* or malform* or reduc*).tw,kw. (107044)
 374 ((limb or limbs) adj3 (abnormal* or anomal* or defect* or deform* or malform* or reduc*).tw,kw. (21351)
 375 (extremity* adj3 (abnormal* or anomal* or defect* or deform* or malform* or reduc*).tw,kw. (6090)
 376 (clubfoot or club foot or clubfeet or club feet).tw,kw. (7899)
 377 (flatfoot or flat foot or flatfeet or flat feet).tw,kw. (5316)
 378 (arachnodactyl* or brachydactyl* or ectromelia* or amelia* or hemimelia* or phocomelia* or sirenomelia* or hyperdactyl* or polydactyl* or polysyndactyl* or syndactyl*).tw,kw. (23028)
 379 gastroschis*.tw,kw. (5672)
 380 or/303-379 [OUTCOMES] (6697094)
 381 302 and 380 (22899)
 382 limit 381 to english [Limit not valid in Joanna Briggs Institute EBP Database -; records were retained] (21023)
 383 382 use medall,emcxd,coch,cctr,jbi (20440)
 384 382 not 383 [PSYCINFO RECORDS] (583)
 385 (2019* or 2020*).up. (35531612)
 386 384 and 385 [PSYCINFO UPDATE] (38)
 387 Pregnancy/ (1629651)
 388 exp Pregnancy Complications/ (574252)
 389 Pregnant Women/ (78249)
 390 exp Pregnancy Trimesters/ (835936)
 391 pregnan*.tw,kw. (1320762)
 392 Prenatal Care/ (70527)
 393 (prenatal* or antenatal* or ante natal* or antepartum or ante partum).tw,kw. (356488)
 394 or/387-393 [PREGNANCY] (2313745)
 395 exp Overweight/ (773480)
 396 (obesity* or obese or overweight or over weight or adiposit*).tw,kw. (899327)
 397 (body adj2 (size* or shape* or weight* or fat* or silhouette*).tw,kw. (714530)

398 exp Adipose Tissue/ (271847)
 399 exp Body Fat Distribution/ (21902)
 400 ((abdominal* or central* or subcutaneous*) adj2 (obes* or fat* or adipos*)).tw,kw.
 (100944)
 401 Anthropometry/ (97255)
 402 Waist Circumference/ or Waist-Hip Ratio/ or Waist-Height Ratio/ (74903)
 403 Skinfold Thickness/ (20075)
 404 (anthropometr* or BMI or BMIs or skinfold* or SFT or SFTs).tw,kw. (614662)
 405 (waist* adj2 (circumference* or hip* or height or thigh*)).tw,kw. (105266)
 406 (waisthip or waistheight or waistthigh or WHR or WHtR or WTR).tw,kw. (16319)
 407 or/395-406 [ADIPOSIITY] (2155529)
 408 394 and 407 [ADIPOSIITY IN PREGNANCY] (127128)
 409 exp Animals/ not (exp Animals/ and Humans/) (18145733)
 410 408 not 409 [ANIMAL-ONLY REMOVED] (72726)
 411 (comment or editorial or interview or news or newspaper article).pt. (2066673)
 412 (letter not (letter and randomized controlled trial)).pt. (2164882)
 413 410 not (411 or 412) [OPINION PIECES REMOVED] (71150)
 414 exp Risk/ (3665410)
 415 (risk or risked or risks or risky or risking or risk-related).tw,kw. (5946921)
 416 predict*.tw,kw. (4167721)
 417 logistic*.tw,kw. (856074)
 418 (logit* adj1 model*).tw,kw. (6575)
 419 Prevalence/ (990248)
 420 prevalen*.tw,kw. (1984134)
 421 Pregnancy Complications/ep [epidemiology] (12669)
 422 or/414-421 [RISK/PREDICTION] (11650984)
 423 413 and 422 (39093)
 424 Pregnancy Outcome/ (110912)
 425 ((pregnan* or prenatal* or antenatal* or ante natal* or antepartum or ante partum or
 perinatal* or peripartum) adj3 outcome*).tw,kw. (118174)
 426 ((maternal* or mother* or baby or babies or f?etal* or f?etus* or neonat* or newborn*)
 adj3 outcome*).tw,kw. (88341)
 427 exp Pregnancy Complications/mo [mortality] (6721)
 428 Maternal Mortality/ (33772)
 429 Fetal Mortality/ (5032)
 430 Perinatal Mortality/ (16632)
 431 (mortalit* or death* or fatal*).tw,kw. (3957410)
 432 exp Fetal Death/ (74852)
 433 ((baby or babies or f?etal or f?etus* or neonat* or newborn*) adj3 (dead or demise? or
 died or dying)).tw,kw. (18096)
 434 (stillbirth* or stillborn*).tw,kw. (39507)
 435 exp Abortion, Spontaneous/ (80320)
 436 ((abort* adj2 spontaneous*) or miscarriage? or (recur* adj2 loss*) or (habit* adj2
 abort*)).tw,kw. (75747)
 437 exp Hospitalization/ (639998)
 438 hospitali*.tw,kw. (746337)

439 ((admit* or admission* or readmit* or readmission*) adj3 (hospital? or critical care or intensive care or ICU or ICUs or NICU or NICUs or SICU or SICUs)).tw,kw. (389590)
 440 exp Hypertension, Pregnancy-Induced/ (55111)
 441 ((eclamp* or hypertensi* or preeclamp* or pre-eclamp* or toxemi* or toxaemi* or EPH or hemolys#s) adj3 (gestational* or maternal* or "new onset" or pregnancy-induced)).tw,kw. (31785)
 442 PIH.tw,kw. (5310)
 443 HELLP.tw,kw. (6878)
 444 exp Diabetes, Gestational/ (49429)
 445 ((diabet* or DM or T2DM) adj3 (gestational* or maternal* or "new onset" or pregnancy-induced)).tw,kw. (57931)
 446 PID.tw,kw. (13056)
 447 macrosomi*.tw,kw. (11229)
 448 Venous Thromboembolism/ (47161)
 449 (DVT or thromboemboli* or VTE).tw,kw. (188930)
 450 exp Placenta Diseases/ (45964)
 451 Placental Circulation/ (7099)
 452 (placenta* adj3 (abnormal* or disease* or disorder* or dysfunction*)).tw,kw. (13087)
 453 (placenta* adj2 mediate*).tw,kw. (1149)
 454 Fetal Growth Retardation/ (33493)
 455 ((f?etal or f?etus* or intrauterin*) adj grow* adj3 (restrict* or retard*)).tw,kw. (44703)
 456 (FGR or IUGR).tw,kw. (20519)
 457 Premature Birth/ (81916)
 458 (preterm or prematur*).tw,kw. (532367)
 459 exp Cesarean Section/ (149360)
 460 (cesarean* or caesarean*).tw,kw. (164121)
 461 (C-section* or Csection*).tw,kw. (5413)
 462 (abdom* adj3 deliver*).tw,kw. (2426)
 463 (postdate* or post-date* or postmatur* or post-matur* or postterm* or post-term*).tw,kw. (9116)
 464 (42 week? or 43 week?).tw,kw. (11165)
 465 ("42 0/7" or "42 1/7" or "42 2/7" or "42 3/7" or "42 4/7" or "42 5/7" or "42 6/7" or "42 7/7" or "43 0/7" or "43 1/7" or "43 2/7" or "43 3/7" or "43 4/7" or "43 5/7" or "43 6/7" or "43 7/7").tw,kw. (670)
 466 Fetal Macrosomia/ (6974)
 467 ("large-for-gestational age" or LGA).tw,kw. (9227)
 468 Congenital Abnormalities/ (46941)
 469 ((birth or congenital) adj3 (abnormal* or anomal* or defect* or deform*)).tw,kw. (159952)
 470 exp Neural Tube Defects/ (61770)
 471 (NTD or NTDs).tw,kw. (10633)
 472 (neural tube? adj2 (defect* or deform* or malform*)).tw,kw. (18102)
 473 (acrani* or craniorachischis* or diastematomyeli* or exencephal* or iniencephal* or neurenteric cyst* or neuroenteric cyst* or occult spinal dysraphism* or spinal cord myelodysplasi* or (tethered adj2 cord syndrome*)).tw,kw. (7305)
 474 (anencephal* or aprosencephal*).tw,kw. (7561)

475 (congenital*.tw,kw. or cn.fs.) and ((absen* or lack* or missing) adj2 brain*).tw,kw. (122)
 476 (congenital*.tw,kw. or cn.fs.) and ((absen* or lack* or missing) adj2 crani\$2 vault*).tw,kw. (10)
 477 (meroanencephal* or holanencephal*).tw,kw. (15)
 478 (encephalocele or bifid cranium or cephalocele or cerebellar hernia* or cerebral hernia* or cranial meningoencephalocele or craniocoele or cranium bifidum or notoencephalocelecranial or tonsillar hernia*).tw,kw. (8218)
 479 (rachischisis or schistorrhachis or status dysraphicus).tw,kw. (483)
 480 ((cleft or open) adj1 (spine? or spinal)).tw,kw. (570)
 481 (spina? adj (bifida? or bifidum? or dysraphia* or dysraphism*)).tw,kw. (21692)
 482 dermal sinus*.tw,kw. (1246)
 483 (Arnold-Chiari adj1 (syndrome* or malform* or deform*)).tw,kw. (2233)
 484 Chiari malformation?.tw,kw. (6198)
 485 (Cantrell* adj1 pentalog*).tw,kw. (171)
 486 ((Cantrell Haller Ravitch or thoracoabdominal) adj syndrome*).tw,kw. (21)
 487 exp Cardiovascular Abnormalities/ (416346)
 488 ((heart or cardiac* or cardio* or aort* or arter* or ventric* or vascular*) adj3 (abnormal* or anomal* or defect* or deform* or malform*)).tw,kw. (277461)
 489 ((septa? or septum) adj3 (abnormal* or anomal* or defect* or deform* or malform*)).tw,kw. (66688)
 490 Cleft Lip/ (32086)
 491 Cleft Palate/ (47211)
 492 (cleft? adj1 (lip or lips or palat*)).tw,kw. (50862)
 493 (congenital fissur* adj1 (lip or lips or palat*)).tw,kw. (0)
 494 ((orofacial or oro facial) adj1 cleft?).tw,kw. (2498)
 495 (labioschis* or cheiloschis* or abioschiz*).tw,kw. (71)
 496 (harelip? or hare lip?).tw,kw. (1679)
 497 (palatishis* or palatoschis* or palatoschiz* or palatum fissu*).tw,kw. (324)
 498 Anorectal Malformations/ (3182)
 499 ((anorectal* or ano-rectal*) adj3 (abnormal* or anomal* or atresia* or defect* or deform* or malform* or stenosis*)).tw,kw. (6497)
 500 ((anus\$2 or anal\$2) adj3 (abnormal* or anomal* or atresia* or defect* or deform* or malform* or stenosis*)).tw,kw. (6133)
 501 ((rectum? or rectal\$2) adj3 (abnormal* or anomal* or atresia* or defect* or deform* or malform* or stenosis*)).tw,kw. (4548)
 502 Hydrocephalus/ (63958)
 503 hydrocephal*.tw,kw. (69111)
 504 (aqueductal stenosis* or cerebral ventriculomegal* or Dandy-Walker or Luschka-Magendie foramina atresia* or Hakim\$2).tw,kw. (6345)
 505 exp Limb Deformities, Congenital/ (73214)
 506 ((arm or arms or carpal or carpus or femur* or finger? or foot or feet or fibula? or forearm? or fore arm? or hand or hands or hip or hips or humeral or humerus or knee? or kneecap? or leg or legs or metacarp* or metatars* or patell* or radius or radial or talipedes or talipes or tarsal or tibia? or toe or toes or ulna? or wrist?) adj3 (abnormal* or anomal* or defect* or deform* or malform* or reduc*)).tw,kw. (107044)

507 ((limb or limbs) adj3 (abnormal* or anomal* or defect* or deform* or malform* or
 reduc*)).tw,kw. (21351)
 508 (extremity* adj3 (abnormal* or anomal* or defect* or deform* or malform* or
 reduc*)).tw,kw. (6090)
 509 (clubfoot or club foot or clubfeet or club feet).tw,kw. (7899)
 510 (flatfoot or flat foot or flatfeet or flat feet).tw,kw. (5316)
 511 (arachnodactyl* or brachydactyl* or ectromelia* or amelia* or hemimelia* or
 phocomelia* or sirenomelia* or hyperdactyl* or polydactyl* or polysyndactyl* or
 syndactyl*).tw,kw. (23028)
 512 Gastroschisis/ (4995)
 513 gastroschis*.tw,kw. (5672)
 514 or/424-513 [OUTCOMES] (6964826)
 515 423 and 514 (24104)
 516 limit 515 to english [Limit not valid in Joanna Briggs Institute EBP Database -; records
 were retained] (22120)
 517 516 use jbi [J BRIGGS RECORDS] (123)
 518 ("2019" or "2020").yr. (3794293)
 519 517 and 518 [J BRIGGS UPDATE] (36)
 520 Pregnancy/ (1629651)
 521 exp Pregnancy Complications/ (574252)
 522 Pregnant Women/ (78249)
 523 exp Pregnancy Trimesters/ (835936)
 524 pregnan*.tw,kw. (1320762)
 525 Prenatal Care/ (70527)
 526 (prenatal* or antenatal* or ante natal* or antepartum or ante partum).tw,kw. (356488)
 527 or/520-526 [PREGNANCY] (2313745)
 528 exp Overweight/ (773480)
 529 (obesity* or obese or overweight or over weight or adiposit*).tw,kw. (899327)
 530 (body adj2 (size* or shape* or weight* or fat* or silhouette*)).tw,kw. (714530)
 531 exp Adipose Tissue/ (271847)
 532 exp Body Fat Distribution/ (21902)
 533 ((abdominal* or central* or subcutaneous*) adj2 (obes* or fat* or adipos*)).tw,kw.
 (100944)
 534 Anthropometry/ (97255)
 535 Waist Circumference/ or Waist-Hip Ratio/ or Waist-Height Ratio/ (74903)
 536 Skinfold Thickness/ (20075)
 537 (anthropometr* or BMI or BMIs or skinfold* or SFT or SFTs).tw,kw. (614662)
 538 (waist* adj2 (circumference* or hip* or height or thigh*)).tw,kw. (105266)
 539 (waisthip or waistheight or waistthigh or WHR or WHtR or WTR).tw,kw. (16319)
 540 or/528-539 [ADIPOSITY] (2155529)
 541 527 and 540 [ADIPOSITY IN PREGNANCY] (127128)
 542 exp Animals/ not (exp Animals/ and Humans/) (18145733)
 543 541 not 542 [ANIMAL-ONLY REMOVED] (72726)
 544 (comment or editorial or interview or news or newspaper article).pt. (2066673)
 545 (letter not (letter and randomized controlled trial)).pt. (2164882)
 546 543 not (544 or 545) [OPINION PIECES REMOVED] (71150)

547 exp Risk/ (3665410)
 548 (risk or risked or risks or risky or risking or risk-related).tw,kw. (5946921)
 549 predict*.tw,kw. (4167721)
 550 logistic*.tw,kw. (856074)
 551 (logit* adj1 model*).tw,kw. (6575)
 552 Prevalence/ (990248)
 553 prevalen*.tw,kw. (1984134)
 554 Pregnancy Complications/ep [epidemiology] (12669)
 555 or/547-554 [RISK/PREDICTION] (11650984)
 556 546 and 555 (39093)
 557 Pregnancy Outcome/ (110912)
 558 ((pregnan* or prenatal* or antenatal* or ante natal* or antepartum or ante partum or
 perinatal* or peripartum) adj3 outcome*).tw,kw. (118174)
 559 ((maternal* or mother* or baby or babies or f?etal* or f?etus* or neonat* or newborn*)
 adj3 outcome*).tw,kw. (88341)
 560 exp Pregnancy Complications/mo [mortality] (6721)
 561 Maternal Mortality/ (33772)
 562 Fetal Mortality/ (5032)
 563 Perinatal Mortality/ (16632)
 564 (mortalit* or death* or fatal*).tw,kw. (3957410)
 565 exp Fetal Death/ (74852)
 566 ((baby or babies or f?etal or f?etus* or neonat* or newborn*) adj3 (dead or demise? or
 died or dying)).tw,kw. (18096)
 567 (stillbirth* or stillborn*).tw,kw. (39507)
 568 exp Abortion, Spontaneous/ (80320)
 569 ((abort* adj2 spontaneous*) or miscarriage? or (recur* adj2 loss*) or (habit* adj2
 abort*)).tw,kw. (75747)
 570 exp Hospitalization/ (639998)
 571 hospitali*.tw,kw. (746337)
 572 ((admit* or admission* or readmit* or readmission*) adj3 (hospital? or critical care or
 intensive care or ICU or ICUs or NICU or NICUs or SICU or SICUs)).tw,kw. (389590)
 573 exp Hypertension, Pregnancy-Induced/ (55111)
 574 ((eclamp* or hypertensi* or preeclamp* or pre-eclamp* or toxemi* or toxaemi* or EPH
 or hemolys#s) adj3 (gestational* or maternal* or "new onset" or pregnancy-induced)).tw,kw.
 (31785)
 575 PIH.tw,kw. (5310)
 576 HELLP.tw,kw. (6878)
 577 exp Diabetes, Gestational/ (49429)
 578 ((diabet* or DM or T2DM) adj3 (gestational* or maternal* or "new onset" or pregnancy-
 induced)).tw,kw. (57931)
 579 PID.tw,kw. (13056)
 580 macrosomi*.tw,kw. (11229)
 581 Venous Thromboembolism/ (47161)
 582 (DVT or thromboemboli* or VTE).tw,kw. (188930)
 583 exp Placenta Diseases/ (45964)
 584 Placental Circulation/ (7099)

585 (placenta* adj3 (abnormal* or disease* or disorder* or dysfunction*)).tw,kw. (13087)
586 (placenta* adj2 mediate*).tw,kw. (1149)
587 Fetal Growth Retardation/ (33493)
588 ((f?etal or f?etus* or intrauterin*) adj grow* adj3 (restrict* or retard*)).tw,kw. (44703)
589 (FGR or IUGR).tw,kw. (20519)
590 Premature Birth/ (81916)
591 (preterm or prematur*).tw,kw. (532367)
592 exp Cesarean Section/ (149360)
593 (cesarean* or caesarean*).tw,kw. (164121)
594 (C-section* or Csection*).tw,kw. (5413)
595 (abdom* adj3 deliver*).tw,kw. (2426)
596 (postdate* or post-date* or postmatur* or post-matur* or postterm* or post-term*).tw,kw. (9116)
597 (42 week? or 43 week?).tw,kw. (11165)
598 ("42 0/7" or "42 1/7" or "42 2/7" or "42 3/7" or "42 4/7" or "42 5/7" or "42 6/7" or "42 7/7" or "43 0/7" or "43 1/7" or "43 2/7" or "43 3/7" or "43 4/7" or "43 5/7" or "43 6/7" or "43 7/7").tw,kw. (670)
599 Fetal Macrosomia/ (6974)
600 ("large-for-gestational age" or LGA).tw,kw. (9227)
601 Congenital Abnormalities/ (46941)
602 ((birth or congenital) adj3 (abnormal* or anomal* or defect* or deform*)).tw,kw. (159952)
603 exp Neural Tube Defects/ (61770)
604 (NTD or NTDs).tw,kw. (10633)
605 (neural tube? adj2 (defect* or deform* or malform*)).tw,kw. (18102)
606 (acrani* or craniorachischis* or diastematomyeli* or exencephal* or iniencephal* or neurenteric cyst* or neuroenteric cyst* or occult spinal dysraphism* or spinal cord myelodysplasi* or (tethered adj2 cord syndrome*)).tw,kw. (7305)
607 (anencephal* or aprosencephal*).tw,kw. (7561)
608 (congenital*.tw,kw. or cn.fs.) and ((absen* or lack* or missing) adj2 brain*).tw,kw. (122)
609 (congenital*.tw,kw. or cn.fs.) and ((absen* or lack* or missing) adj2 crani\$2 vault*).tw,kw. (10)
610 (meroanencephal* or holosanencephal*).tw,kw. (15)
611 (encephalocele or bifid cranium or cephalocele or cerebellar hernia* or cerebral hernia* or cranial meningoencephalocele or craniocoele or cranium bifidum or notoencephalocelecranial or tonsillar hernia*).tw,kw. (8218)
612 (rachischis or schistorrhachis or status dysraphicus).tw,kw. (483)
613 ((cleft or open) adj1 (spine? or spinal)).tw,kw. (570)
614 (spina? adj (bifida? or bifidum? or dysraphia* or dysraphism*)).tw,kw. (21692)
615 dermal sinus*.tw,kw. (1246)
616 (Arnold-Chiari adj1 (syndrome* or malform* or deform*)).tw,kw. (2233)
617 Chiari malformation?.tw,kw. (6198)
618 (Cantrell* adj1 pentalog*).tw,kw. (171)
619 ((Cantrell Haller Ravitch or thoracoabdominal) adj syndrome*).tw,kw. (21)
620 exp Cardiovascular Abnormalities/ (416346)

621 ((heart or cardiac* or cardio* or aort* or arter* or ventric* or vascular*) adj3 (abnormal* or anomal* or defect* or deform* or malform*)).tw,kw. (277461)
 622 ((septa? or septum) adj3 (abnormal* or anomal* or defect* or deform* or malform*)).tw,kw. (66688)
 623 Cleft Lip/ (32086)
 624 Cleft Palate/ (47211)
 625 (cleft? adj1 (lip or lips or palat*)).tw,kw. (50862)
 626 (congenital fissur* adj1 (lip or lips or palat*)).tw,kw. (0)
 627 ((orofacial or oro facial) adj1 cleft?).tw,kw. (2498)
 628 (labioschis* or cheiloschis* or abioschiz*).tw,kw. (71)
 629 (harelip? or hare lip?).tw,kw. (1679)
 630 (palatishis* or palatoschis* or palatoschiz* or palatum fissu*).tw,kw. (324)
 631 Anorectal Malformations/ (3182)
 632 ((anorectal* or ano-rectal*) adj3 (abnormal* or anomal* or atresia* or defect* or deform* or malform* or stenosis*)).tw,kw. (6497)
 633 ((anus\$2 or anal\$2) adj3 (abnormal* or anomal* or atresia* or defect* or deform* or malform* or stenosis*)).tw,kw. (6133)
 634 ((rectum? or rectal\$2) adj3 (abnormal* or anomal* or atresia* or defect* or deform* or malform* or stenosis*)).tw,kw. (4548)
 635 Hydrocephalus/ (63958)
 636 hydrocephal*.tw,kw. (69111)
 637 (aqueductal stenosis* or cerebral ventriculomegal* or Dandy-Walker or Luschka-Magendie foramina atresia* or Hakim\$2).tw,kw. (6345)
 638 exp Limb Deformities, Congenital/ (73214)
 639 ((arm or arms or carpal or carpus or femur* or finger? or foot or feet or fibula? or forearm? or fore arm? or hand or hands or hip or hips or humeral or humerus or knee? or kneecap? or leg or legs or metacarp* or metatars* or patell* or radius or radial or talipes or talipes or tarsal or tibia? or toe or toes or ulna? or wrist?) adj3 (abnormal* or anomal* or defect* or deform* or malform* or reduc*)).tw,kw. (107044)
 640 ((limb or limbs) adj3 (abnormal* or anomal* or defect* or deform* or malform* or reduc*)).tw,kw. (21351)
 641 (extremity* adj3 (abnormal* or anomal* or defect* or deform* or malform* or reduc*)).tw,kw. (6090)
 642 (clubfoot or club foot or clubfeet or club feet).tw,kw. (7899)
 643 (flatfoot or flat foot or flatfeet or flat feet).tw,kw. (5316)
 644 (arachnodactyl* or brachydactyl* or ectromelia* or amelia* or hemimelia* or phocomelia* or sirenomelia* or hyperdactyl* or polydactyl* or polysyndactyl* or syndactyl*).tw,kw. (23028)
 645 Gastroschisis/ (4995)
 646 gastroschis*.tw,kw. (5672)
 647 or/557-646 [OUTCOMES] (6964826)
 648 556 and 647 (24104)
 649 limit 648 to english [Limit not valid in Joanna Briggs Institute EBP Database -; records were retained] (22120)
 650 (conference abstract or journal conference abstract).pt. (3885879)
 651 649 not 650 [CONFERENCE ABSTRACTS REMOVED] (18384)

652 649 use coch [COCHRANE DSR RECORDS] (557)
653 (2019* or 2020*).up. (35531612)
654 652 and 653 [COCHRANE DSR UPDATE] (156)
655 651 use cctr [CENTRAL RECORDS] (825)
656 (2019* or 2020*).up. (35531612)
657 655 and 656 [CENTRAL UPDATE] (649)
658 133 or 274 or 386 or 519 or 654 or 657 [ALL DATABASES - UPDATE PERIOD] (3762)
659 remove duplicates from 658 (2795)
660 659 use medall [MEDLINE UNIQUE RECORDS] (1095)
661 659 use emczd [EMBASE UNIQUE RECORDS] (871)
662 659 use jbi [J BRIGGS UNIQUE RECORDS] (36)
663 659 use cctr [CENTRAL UNIQUE RECORDS] (610)
664 659 use coch [COCHRANE DSR UNIQUE RECORDS] (156)
665 659 not (660 or 661 or 662 or 663 or 664) [PSYCINFO UNIQUE RECORDS] (27)

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No full-text

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Table S1: Summary of Eligibility Criteria from Included Studies

Study (Year)	Inclusion Criteria	Exclusion Criteria
Sen ¹³ (2016)	Women with a pre-pregnancy BMI (in kg/m ²) ≥ 18.5 without pre-existing type 1 or 2 diabetes mellitus who completed first- and/or second-trimester Food Frequency Questionnaires (FFQs)	None reported
Davies-Tuck ¹⁴ (2016)	Singleton births ≥ 24 weeks gestation, free from congenital anomalies and seen at Monash Women's Services, Monash Health, a metropolitan maternity service in Melbourne, Australia between 2009-2013. Only women who had a pre-gravid BMI at booking recorded were included.	Women of other nationalities were excluded
Marshall ¹⁵ (2014)	All live born singleton infants ≥ 37 weeks gestation born to African-American or Caucasian Missouri residents between 1 January 2000 and 31 December 2006.	Fetuses with major congenital anomalies and women with diabetes or chronic hypertension.
Machtinger ¹⁶ (2015)	All women with either spontaneous or IVF singleton pregnancies followed at the outpatient clinics of the hospital between January 2007 and December 2011 were included. IVF deliveries from women after undergoing IVF at the hospital and delivered at the hospital were also eligible, even if followed in other practices. Only those IVF pregnancies achieved following day 3 embryo transfer were included.	Pregnancies from day 5 transfers, multiple pregnancies, pregnancies with vanishing twins, cryopreserved cycles, oocyte donors and gestational carrier cycles were excluded.
Snowden ¹⁷ (2016)	All births occurring in California in 2007	American Indian/Alaska Native, multiracial, and other ethnicities were not included. Underweight women (BMI < 18.5 kg/m ²) were excluded from analysis. Records that were missing for maternal weight and maternal height were excluded.
Elkholi ¹⁸ (2014)	Obese (BMI ≥ 30) primigravidae with single pregnancy, with/without PCOS	Other etiologies of hyper-androgenism as late onset congenital adrenal hyperplasia, androgen secreting tumors of ovaries and adrenals and Cushing's syndrome.
Parker ¹⁹ (2015)	All records that contained singleton-delivery related discharges. In order to remove obesity as a potential confounder, the study population was further narrowed to include only obese women (BMI ≥ 30 kg/m ²) in the singleton delivery population.	Hospitalizations for conditions other than childbirth were excluded.
Persson ²⁰ (2012)	Infants from singleton pregnancies and born to mothers with type 1 diabetes mellitus in Sweden between 1998 and 2007 were included. Type 1 diabetic pregnancies were identified based on ICD-10 code O240 and ICD-9 code 250 for pre-gestational diabetes.	Of all pregnancies, 441 records (0.05%) with extreme values on maternal age, maternal weight or height were excluded. We excluded 90 records. The reference population included 764,498 singleton pregnancies to mothers without a diagnosis of diabetes, excluding 28,018 records from multiple pregnancies and 147,835 records with missing data on maternal BMI or BMI < 18.5 . In women with T1DM, 652 records (15%) were excluded due to missing data on maternal BMI or BMI < 18.5 and 116 (2.8%) due to multiple pregnancies.

Study (Year)	Inclusion Criteria	Exclusion Criteria
Lamminpää ²¹ (2016)	The study population of the current study included women whose pre-pregnancy BMI had been recorded in the data (N = 249,650). The data included both nulliparous and multiparous women with singleton births.	Cases with major congenital anomalies were excluded (N = 9354) as well as women with multiple pregnancies (N = 8472).
Metsälä (2015)	Not reported	Not reported
Houde ²³ (2015)	A cohort was constructed using data for 2012 and selected from a database of all records for the contiguous United States, Hawaii, and Alaska. The analysis was restricted to singleton pregnancies with cephalic presentation at delivery, for which maternal age, pre-pregnancy BMI, and gestational weight gain information were available.	The territories Puerto Rico, Guam, and the Virgin Islands were excluded from the final aggregate file because of coding differences related to birth certificates. All entries with multiple pregnancies, recorded mal-placentation, mal-presentation, congenital anomalies, chromosomal abnormalities, and/or missing information on age, BMI, and gestational weight gain were also excluded.
Masho ²⁴ (2012)	Singleton, live-born infants with no severe congenital abnormalities were included.	Multiple births, missing plurality, severe congenital anomalies, non-live births, including abortion, molar pregnancies, stillbirths and unknown etiology fetal deaths. Additionally mother-child pairs with missing data for: pre-pregnancy BMI, gestational weight gain, labor or gestational age.
Kim ³⁸ (2013)	California resident women aged 20 years or older with a live singleton birth between 2007-2009 whose hospital delivery records were linked to the birth certificate.	Age < 20 years, multiple birth, pre-existing diabetes, missing race/ethnicity, missing BMI.
Ducarme ²⁶ (2013)	Women who became pregnant after LAGB or Roux-en-Y gastric bypass (all singleton pregnancies)	Intra uterine death and fetal loss before 22 weeks.
Halloran ²⁷ (2012)	Nulliparous, singleton live birth, Black or White ethnicity, aged 11-17 years.	Major congenital anomalies, missing BMI data.
Louis ²⁸ (2012)	Obese (pre-pregnancy BMI ≥ 30 kg/m ²), age ≥ 18 years and willing to be adherent with the study protocol.	Chronic use of narcotic or other drugs affecting the central nervous system, and inability to maintain sleep beyond 2 hours. Women with a documented history of non-adherence (missing >3 clinic visits) were also excluded.
Hedderson ²⁹ (2012)	No pre-gravid diabetes, aged 15-45 years, delivery matched to California birth certificate, first delivery in study period	Missing plasma glucose values, height, weight, race/ethnicity (or 'other' race/ethnicity), parity, gestation at weight ascertainment
Olivarez ³⁰ (2011)	Inclusion criteria were gravidae of 18 to 50 years of age, with confirmed viable singleton gestations, in the first trimester of pregnancy.	The only exclusion criteria were subjects with known sleep-disordered breathing and women with significant underlying pulmonary or cardiac comorbidities, or with known multiple gestations.
Salihu ³¹ (2010)	The study population initially consisted of 767,130 live-born singleton infants	27,118 (3.5%) were excluded because they did not fall within the gestational age range of 20-44 weeks. Further exclusions were made for missing or implausible weight/height values (73,178 (9.5%)) and for mothers with missing parity status (4,123 (0.5%)).
Aliyu ³² (2010)	Not reported	Criteria were not explicitly reported (excluded population described: from an available study population of 917,449 live

Study (Year)	Inclusion Criteria	Exclusion Criteria
		births, the following were sequentially excluded: 2542 (0.28%) births outside the range of 20–44 weeks of gestation; 28,727 (3.4%) multiple gestations; 92,006 (10.4%) records with missing information on maternal pre-pregnancy weight; 30,798 (3.9%) mothers who were not white, black, or Hispanic; and 451,954 (59.2%) mothers who were outside the ages of 20–24 or 35 and older)
Aliyu ³³ (2010)	For analysis, data were restricted to include singleton births, women <25 years of age, deliveries that occurred between 20 and 44 weeks of gestation, and women who were non-Hispanic black, non-Hispanic white, and Hispanic.	Records were excluded if they were missing maternal pre-pregnancy BMI or information regarding pre-eclampsia or eclampsia. Approximately 11.6% of records were excluded because of these reasons.
Shachar ³⁴ (2015)	Inclusion criteria were linked, singleton, live births, born 20–41 weeks of gestation to non-Hispanic white, non-Hispanic black, Hispanic, and Asian mothers.	Exclusion criteria were gestational week at delivery <20 or >41 (often resulting from erroneous gestational dating), missing education, maternal age <13 or >55 years, height <53 or >77 inches (these height cutoffs reflect at least 3 SD for any race/ethnicity), pre-pregnancy weight <75 or >450 pounds, and parity missing or >10.
Salihu ³⁵ (2009)	Singleton births that were 20 to 44 weeks of gestation and women who were black, white, or Hispanic.	Records were excluded if they were missing maternal pre-pregnancy BMI
Thrift ³⁶ (2014)	The study included 15 050 singleton births to Queensland resident Indigenous women and 250 798 to non-Indigenous women between 1 July 2007 and 31 December 2011	Not reported
Barton ³⁷ (2014)	Nulliparous women aged 20 to 29 or 40 years who delivered at > 20 weeks' gestation.	Women reporting heart disease, chronic hypertension, pre-gestational diabetes, asthma, hypo- or hyperthyroidism thrombophilia, tobacco use during pregnancy, and conception with any assistive reproductive technology including ovulation induction were excluded.
Kim ³⁸ (2014)	Women who self-reported as non-Hispanic Black or Non-Hispanic White	Women with missing information on race/ethnicity, with more than one race/ethnicity, or who were Hispanic were excluded
Reeske ³⁹ (2012)	Singleton pregnancies	miscarriages, foetal deaths, stillborn infants, extrauterine pregnancies, hydatiform moles, more than one pregnancy or settlement for one woman in the period 2005–2007, multiple pregnancies (n = 44), mother older than 52 or younger than 15 at the time of birth, or age missing, inconclusive diagnosis of gestational diabetes
Lynch ⁴⁰ (2012)	Singleton gestations	Women with a loss to follow-up (n=49) and chronic medical disease (cardiac disease, chronic hypertension, type 1 diabetes, and autoimmune disease, n =114). Women with a missing plasma sample (because of a deviation from the study protocol at the initial blood draw, n = 48) were also removed from the analysis.

Study (Year)	Inclusion Criteria	Exclusion Criteria
Belogolovkin ⁴¹ (2012)	Women with a singleton birth within the gestational age of 20–44 weeks were selected. The dataset includes all institutions in the state of Florida, except for military and Veterans Administration institutions.	During the period of the study, 11.5% of the records did not have a known maternal social security number, mainly because the mothers were not legal residents. These records were excluded from the linkage process since their follow-up would not be possible. Military and Veterans Administration institutions.
Hogh ⁴² (2020)	Women presenting for nuchal translucency US examination from 16 sept 2012 to 31 oct 2016	Women who miscarried before completing the questionnaire, multiple pregnancies, women with chronic diseases (kidney disease, diabetes 1 and 2, chronic hypertension prior to pregnancy), women without information on multivitamin use, women who only reported preconception multivitamin use
Njagu ⁴³ (2020)	New patient obstetrical visit prior to 14+0 weeks GA with a recorded baseline BMI of 40+ who delivered at term (>37+0 weeks)	Multiple gestations, preterm delivery, fetal anomalies, intrauterine fetal demise; missing data related to maternal weight, height, or delivery timings
Malik ⁴⁴ (2020)	Patients who underwent either laparoscopic adjustable gastric band, laparoscopic sleeve gastrectomy (LSG), or laparoscopic Roux-en-Y gastric bypass (LRYGB) during the study period from January 2010 to May 2019	Not reported
Porteous ⁴⁵ (2020)	Pregnant women at least 18 years old who were birthing at Logan Hospital, who had an estimated date of confinement between 1 January 2012 and 13 February 2018 and who has a self-reported pregnancy weight and measured height that calculated to a BMI 30+ as documented in peri-natal data collection records	All other women who did not meet inclusion criteria. If eligible women had more than 1 pregnancy, the first pregnancy that resulted in a referral to the dietician was included, all others were excluded.
Pratt ⁴⁶ (2019)	Women with singleton pregnancies 20+ weeks gestation delivering between 1 January 2011 and 31 December 2016	Women with multiple pregnancies, those with missing BMI data. Women weighing >180kg had their care transferred to a tertiary centre as per established health service capacity criteria
Dolin ⁴⁷ (2019)	Women with singleton live births after bariatric surgery that received care between 2009-2017	Spontaneous abortion, elective abortion, multifetal gestation, incomplete medical records
Browne ⁴⁸ (2019)	Singleton births between 24 weeks - days and 41 week 6 days weeks of gestation based on best clinical estimate of gestational age	Multifetal gestations, pregnancies outside of the gestational age range, and those complicated by severe fetal anomalies (including anencephaly, spina bifida, cardiac anomalies, diaphragmatic hernia, gastroschisis, omphalocele, and chromosomal abnormalities). Additionally, maternal weight less than 70lbs were excluded as extremely underweight. We further excluded GDM, chronic hypertension and gestational hypertension, so as to not artificially increase the baseline risk of stillbirth when assessing for the effects of PGDM and obesity.
Ijas ⁴⁹ (2019)	Women with a singleton pregnancy and OGTT performed during pregnancy in 2009	Not reported
Karadag ⁵⁰ (2020)	Women who had undergone laparoscopic sleeve gastrectomy (LSG) and gotten pregnant between 2010 and 2019. Patients with BMI >30 kg/m ² at the beginning of pregnancy and who had delivered in our clinic were observed retrospectively as the control group	Not reported

Study (Year)	Inclusion Criteria	Exclusion Criteria
Ram ⁵¹ (2019)	Not reported	Birth before 24+0 weeks of gestation, maternal pre-existing medical conditions (including chronic hypertension, pre-gestational diabetes mellitus, renal disease, and autoimmune disorders), monochorionic twins complicated by twin-to-twin transfusion syndrome (TTTS), monoamniotic twins, higher order multifetal pregnancies, reduction/termination of one or both fetuses, missing pre-pregnancy BMI, or pregnancies complicated by genetic or structural fetal anomalies.
Meghelli ⁵² (2020)	Not reported	Multiple pregnancy, pregestational diabetes mellitus or chronic hypertension, fetal malformations and medical termination of pregnancy
Fallatah ⁵³ (2019)	Obese pregnant women attending King Abdulaziz University Hospital (KAUH), Jaddah, KSA from January 2013 to December 2018	Pregnant women with BMI less than 30 and missing vitamin D level
Bar-Zeev ⁵⁴ (2020)	Singleton pregnancies from 2009 to 2015	Not reported
Kong ⁵⁵ (2019)	All pregnancies ending in live births in Finland between January 1, 2004 and December 31, 2014	Not reported
Ukah ⁵⁶ (2019)	Singleton births between 20 and 45 weeks gestation that occurred in Washington State hospitals from 1 January 2004 to 31 December 2013	Not reported
Feghali ⁵⁷ (2019)	Overweight and obese women with singleton pregnancies who delivered from October 1, 2012 until August 20, 2014. We included women who had at least one measured weight between 24 and 28 weeks of gestation and documented prenatal care in the general obstetrics, midwifery, and maternal-fetal medicine clinics in our hospital system. Only the first delivery was included if women had multiple deliveries during the study period.	We excluded women who did not have pre-natal care documented in the outpatient record because the majority of these women were transferred to our facility for acute specialty care and were therefore a unique, high-risk population. We also excluded women who did not have either a self-reported pre-pregnancy weight or a measured weight before 13 weeks of gestation and women with pregestational diabetes.
Roussel ⁵⁸ (2019)	Singleton pregnancy, term delivery (between 37 and 41 weeks of gestation), and a BMI comprised between 35-40 kg/m ² beginning on 1st of January 2006 and ending on the 31st of December 2015	Weight gain exceeded 9 kg, if the last weight measure was recorded more than a week preceding delivery and in cases of incomplete/missing data
Nowak ⁵⁹ (2019)	Singleton pregnancy, no maternal chronic diseases, no congenital fetal abnormalities	Not reported
Thompson ⁶⁰ (2019)	Singleton births between 2014-2016	Not reported
Benjamin ⁶¹ (2019)	Infants born 2006-2012 with a livebirth of a sibling born in 2005-2012 to Texas residents. The birth certificate for the index infant had to link to at least one older liveborn sibling. When an infant was linked to more than one older sibling, only the linked sibling with the date of birth closest to the index infant was retained	Index infant was from a multiple birth, information on maternal prepregnancy weight was missing from either birth certificate, or maternal height on the index infant and sibling birth certificates differed by more than 2 inches
Thagaard ⁶² (2019)	Women who had a serum sample from the first trimester stored frozen at the Danish National Biobank at States Serum Institut (SSI), Copenhagen, Denmark between January 2006 to December 2011	Underweight and overweight women

Study (Year)	Inclusion Criteria	Exclusion Criteria
Grove ⁶³ (2019)	Women who have their first and second or second and third consecutive live-born singleton pregnancies within the dataset from 2003 to 2018	Women missing key data (weight or height at booking, or gestation at birth) or who had inconsistent or outlying values for key data that were likely to be errors were excluded from the analysis. In order to mitigate for inaccurate self-reported heights, women who lost height between pregnancies (>5cm), and those who gained height (>5 cm and were over the age of 22 at first pregnancy), were excluded from the analysis. Women who were booked after 24 weeks gestation were excluded, as the study centre is a specialist centre, and some of these women booking later may have been high risk pregnancies referred from another unit. Multiple births were excluded due to their strong association with PB [10]. Women with multiple miscarriages were also excluded as these women are likely to have different risk factors to the general population
Shaukat ⁶⁴ (2019)	Nulliparous women with singleton pregnancies who had their first antenatal visit at a PHCC facility between 1 June 2016 and 1 March 2017 and their pregnancy outcome at a HMB facility before 10 November 2017	Women with high-risk pregnancy, that is, those with a pregnancy outcome prior to 24 weeks of gestation (n=8), those who were obese class II and higher (BMI $\geq$ 35kg/m ² , n=80) or who were under the age of 18 at their first antenatal visit (n=23). Women who gave birth to babies with indeterminate sex (n=2), or who experienced stillbirth (n=3), fetal death (n=4) or neonatal death (n=1) were also excluded
Moore Simas ⁶⁵ (2019)	Women who self-identified as Latinas, were ages 16-49 years, without heart disease, chronic kidney disease, pregestational diabetes and/or chronic hypertension and who delivered singleton gestations between 2006 and 2011	Women missing prepregnancy height or who were not screened for GDM due to having a spontaneous or therapeutic abortion prior to GDM screen or no longer receiving prenatal care at the study hospitals
Frankenthal ⁶⁶ (2019)	Women with singleton pregnancies recruited between June 2006 and December 2008	Not reported
Laine ⁶⁷ (2019)	Women with singleton pregnancies who gave birth between 1 January 2009 and 31 December 2015 who have not previously been diagnosed with diabetes mellitus	Not reported
Boudet-Berquier ⁶⁸ (2017)	Age over 18, not institutionalized, able to speak, read or write French or to get help from someone who did. The newborn had to be born at 33-40 weeks (AW) or later, without severe pathology requiring hospitalization, and had not been transferred to a unit other than the maternity ward in the days following birth. Between January and April 2012.	Not reported
Janevic ⁶⁹ (2018)	Births between 2010 to 2014	Women with pregestational diabetes, women with multiple gestations, records with missing values for BMI and maternal education, women with race-ethnicity categorized as "other"
Anderson ⁷⁰ (2016)	Singleton first births from 2009-2013	Multiple births; ethnicity other than American Indian, Alaska Native, non-Hispanic white, non-Hispanic African American, or Hispanic

Study (Year)	Inclusion Criteria	Exclusion Criteria
Zamora-Kapoor ⁷¹ (2016)	Singleton live births to American Indian/Alaskan Native women and a randomly selected 10:1 comparison group of all other women with deliveries, frequency matched by delivery year from 2003-2013. Women with singleton pregnancies without prior live births	Not reported
Gernand ⁷² (2014)	Women with singletons pregnancies from 1991-1995 with a serum sample at 26 weeks of gestation or less available for vitamin D assessment	Stillbirths, pregnancies missing birth weight, pregnancies missing pre-pregnancy body mass index
Subramaniam ⁷³ (2015)	Singleton pregnancies delivered from 2000 to 2010 who had a glucose challenge test (GCT) performed after 20 weeks' gestation and had a documented BMI at entry to care	Multifetal gestations, delivery before 20 weeks, fetal anomalies, and maternal medical comorbidities (including but not limited to pregestational diabetes, cardiac disease, HIV, hypertension, autoimmune disease, and placenta pre- via). In addition, women with a GCT < 40 mg/dL were excluded as this was likely due to laboratory error; women with a GCT > 200 mg/dL were also excluded as these women did not undergo confirmatory GTT. Only the first pregnancy during the ascertainment period was considered.)

The distributions of means and ranges of maternal pre-pregnancy body mass index and maternal age across exposure groups in each study are shown below. In studies where there existed sub-populations of both obese and non-obese women and demographic measures were unavailable for the subgroup of obese women, distributions reported are based upon the full study population.

Table S2: Distribution of Maternal BMI and Age Amongst Included Studies

Author (Year)	Total Study Size	# of Exposure Groups	Maternal Pre-Pregnancy BMI (range of means or medians across groups)	Maternal Age (range of means or medians across groups)
Sen ¹³ (2016)	1,808*	4 groups (quartiles of DII)	24.1 to 25.8**	30.4 to 33.4**
Davies-Tuck ¹⁴ (2016)	6,038*	2 groups (Australian obese women, South Asian obese women)	Means not reported; All BMI >30 amongst the groups of obese women	Range 0.5%-2.7% <20 years; range 39.4%-44.3% 20-30 years; range 53.0%-60.1% >30 years
Marshall ¹⁵ (2014)	61,191*	2 groups (African American, Caucasian)	<18.5: range 4.3-5.5%; 18.5-24.9: range 43.0-52.9%; 25-29.9: range 22.5-25.6% ; 30-39.9: range 15.9-21.2% ; 40-49.9: range 2.9-5.0%; >50: range 0.3-0.9%**	<18: range 2.7-8.2%; 18-34: range 85.9%-86.4%, ≥35: range 5.9-10.9%**
Machtinger ¹⁶ (2015)	1,015*	2 groups (spontaneous versus IVF pregnancy)	30.1 to 65.2	18.4 to 44.3
Snowden ¹⁷ (2016)	76,174*	4 groups (White, Black, Hispanic, Asian American)	Range 6.0%-28.0% >BMI 30	Range 12.5-27.2% >35 years**
Elkholi ¹⁸ (2014)	400	4 groups (formed by simultaneous groupings by obesity type and adipocytokines)	Range 31.3 to 32.1	Range 22.4 to 23.4
Parker ¹⁹ (2015)	186,705	2 groups (gastric bypass versus no gastric bypass)	Means not reported; All BMI >30 amongst the groups of obese women	Range 28.4 to 33.0
Persson ²⁰ (2012)	82,949*	2 groups (presence versus absence of type 1 diabetes history)	23.6 to 25.1**	Median 30 in both groups**
Lamminpää ²¹ (2016)	29,995*	2 groups (<35 years versus >35 years)	Means not reported	Means not reported
Metsälä ²² (2015)	11,404*	4 groups (absence/presence of pre-existing diabetes, pre-existing hypertension)	Totals of 7%, 2% and 1% of entire population belonged to BMI groups of 30-34.9, 35-39.9 and >40	Means of 28 across groups**
Houde ²³ (2015)	3,960,796 births*	2 groups (age 12-19, age >19)	Totals of 19.7%, 8.5% and 5.3% in BMI groups of 30-34.9, 35-39.9 and >40	Range of means 17.9-28.8**
Masho ²⁴ (2012)	45,824	Maternal weight gain during pregnancy (quartiles)	Means not reported	24.1 to 28.1
Kim ²⁵ (2013)	251,237*	Ethnicity (white, black, Asian, Hispanic, American Indian)	Means not reported; range 6.6% to 35.4% with BMI>30	Means not reported; range 12.2% to 27.3% with maternal age >35 years
Ducarme ²⁶ (2013)	79 women (94 pregnancies)	Type of bariatric surgery (LAGB versus RYGB)	Mean 46.5 (range 27.2-54.5) across groups (data not provided by group)	Mean of 30.8 (range 22-45) across groups (data not provided by group)

Author (Year)	Total Study Size	# of Exposure Groups	Maternal Pre-Pregnancy BMI (range of means or medians across groups)	Maternal Age (range of means or medians across groups)
Halloran ²⁷ (2012)	2,815*	Ethnicity (Caucasian versus African American)	Means not reported	Means not reported (study performed in teenagers <18 years of age)
Louis ²⁸ (2012)	161	Obstructive sleep apnea (yes versus no)	39.1 to 48.3	27.3 to 30.0
Hedderson ²⁹ (2012)	40,279**	Race (White, Hispanic, African American, Asian, Filipina)	Means not reported; range 7.1% to 35.1% with BMI>31	27.2 to 29.5
Olivarez ³⁰ (2011)	50*	Obstructive sleep apnea (yes versus no)	35.2 to 35.3	28.3 to 30.2
Salihi ³¹ (2010)	132,894*	Nulliparity (nulliparous versus multiparous), race (white, black, hispanic)	Means not reported; range 15.73% to 22.37% with BMI>30	Means not reported; range 7.61% to 18.21% with maternal age ≥35 years
Aliyu ³² (2010)	3,278*	Maternal age (20-24 versus ≥35)	Means not reported; range 19.79% to 20.64% had BMI>30	Means not reported
Aliyu ³³ (2010)	51,427*	Adolescent maternal age (<20 years versus 20-24 years)	Means not reported; range 12.2% to 19.8% with BMI>30	Means not reported (age is primary exposure of interest)
Shachar ³⁴ (2015)	19,664*	Maternal height (five size categories considered)	Means not reported; range 4.6%-27.5% with BMI>30	Means not reported; range 9.7%-43.5% <25 years, range 12.8%-27.3% ≥35 years
Salihi ³⁵ (2009)	149,532*	Ethnicity (Hispanic, Caucasian, African American)	Means not reported; 27.7% of the full study population had BMI>30	Means not reported; range 13.8% to 14.7%
Thrift ³⁶ (2014)	55,275*	Indigenous status (indigenous versus non-indigenous)	Means not reported; ranges of 4.5%-6.31%, 36.6%-46.6%, 27.7%-27.8%, 18.2%-24.7% in BMI categories of <18.5, 18.5-25, 25-30, and >30	Data not reported
Barton ³⁷ (2014)	9,452*	Maternal age (20-29 versus >40)	35.0 to 35.2	25.4 to 41.1
Kim ³⁸ (2014)	462,296*	Ethnicity (Caucasian, African American), Age (20-29, >40)	Means not reported; range 17.2% to 27.5% with BMI>30	Means not reported; ranges of 8.7%-17.4%, 52.2%-58.7%, 22%-36.2% and 1.9%-2.9% in the age groups of <20 years, 20-29 years, 30-39 years and >40 years
Reeske ³⁹ (2012)	3,338	Ethnicity (Turkish versus German)	Means not reported; range 15.9%-17.8% with BMI>30	Means not reported; range 28%-38% <25 years, range 46.5%-56.2% 25-34 years, range 15.5%-15.9% >34 years
Lynch ⁴⁰ (2012)	1,013	Complement activation fragments (Bb, C3a; quartiles)	Means not reported; totals of 4%, 62%, 23% and 11% were underweight, normal weight, overweight and obese, respectively	Means not reported; 62% of participants were <35 years of age
Belogolovkin ⁴¹ (2012)	131,166*	Prior bariatric surgery (yes versus no)	Means not reported; range 19.96% to 48.81% with BMI>30	Means not reported; range 14.43% to 38.91% of advanced maternal age
Hogh ⁴² (2020)	15,154*	3 group (non-vitamin users, periconceptional multivitamin use, early pregnancy multivitamin use)	Means not reported; range 3.8% to 4.2% with BMI≥30	Means not reported; ranges of 2.32%-3.69%, 24.4%-29%, 30.1%-41.7%, 20.8%-24.5% and 4.33%-6.97% in the age groups of

Author (Year)	Total Study Size	# of Exposure Groups	Maternal Pre-Pregnancy BMI (range of means or medians across groups)	Maternal Age (range of means or medians across groups)
				<25 years, 25-29 years, 30-34 years, 35-39 and >40 years
Njagu ⁴³ (2020)	374*	2 groups (gained ≤20 lbs versus gained >20 lbs)	gained ≤20 lbs: 44.7 (41.6, 49.4) gained >20 lbs: 43.7 (41.5, 48.0)	gained ≤20 lbs: 29.3 (25.4, 34.7) gained >20 lbs: 30.0 (26.5, 33.6)
Malik ⁴⁴ (2020)	55*	2 groups for postbariatric surgery (yes versus no)	Yes: 32.8 No: 40.8	Yes: 32.7 No: 31.4
Porteous ⁴⁵ (2020)	5,426	5 groups for referral to an Ante-natal dietitian (not referred, referred, referred and attended ≥3 appointments, referred and attended 1-2 appointments, referred and attended none)	Not referred: 33.9 Referred: 40.6 Referred, attended ≥3 appointments: 40.8 Referred, attended 1-2 appointments: 40.2 Referred and attended none: 41.2	Not referred: 29 Referred: 29 Referred, attended ≥3 appointments: 29 Referred, attended 1-2 appointments: 29 Referred and attended none: 28
Pratt ⁴⁶ (2019)	18,402*	5 groups of BMI class (<18.5, 18.5-24.9, 25-29.9, 30-49.9, ≥50)	Means not reported	<18.5: 26; 18.5-24.9: 28; 25-29.9: 29; 30-49.9: 29; ≥50: 31
Dolin ⁴⁷ (2019)	76*	2 groups bariatric surgery (<12 months before versus ≥12 months before pregnancy)	<12 months before: 34.3 ≥12 months before: 31.2	<12 months before: 31.5 ≥12 months before: 32
Browne ⁴⁸ (2019)	3,097,123*	5 groups of BMI class (<18.5, 18.5-24.9, 25-29.9, 30-49.9, ≥50)	Means not reported; ranges are BMI <18.5: 45.4% BMI 18.5 - <25: 50.2% BMI 25 - <30: 24.9% BMI >35: 17.3% BMI >40: 3.12%	<18.5: 23; 18.5-24.9: 26; 25-29.9: 27; 30-39.9: 27; ≥40: 28
Ijas ⁴⁹ (2019)	24,577*	2 groups (no GDM versus GDM)	No GDM: 24.3 GDM: 24.3	No GDM: 30 GDM: 30
Karadag ⁵⁰ (2020)	144*	3 groups (pregnancies ≤1 year of LSG, >1 year after LSG, no LSG)	≤1 year: 32.83 >1 year: 28.8 no LSG: 31.05	≤1 year: 30.29 >1 year: 28.9 no LSG: 27.48
Ram ⁵¹ (2019)	487,870*	6 groups (underweight, normal weight, and overweight/obese singleton pregnancies versus underweight, normal weight, and overweight/obese twin pregnancies)	Underweight singleton: 17.3 Normal weight singleton: 21.9 Obese singleton: 30.7 Underweight twin: 17.3 normal weight twin: 22.0 Obese twin: 31.1	Underweight singleton: 29.0 Normal weight singleton: 30.4 Obese singleton: 30.7 Underweight twin: 31.1 normal weight twin: 32.2 Obese twin: 31.9
Meghelli ⁵² (2020)	472*	4 groups (no GDM, GDM, GDM with insulin, GDM no insulin)	No GDM: 43.5 GDM: 43.8 GDM with insulin: 43.6 GDM no insulin: 44.0	No GDM: 28.9 GDM: 30.4 GDM with insulin: 29 GDM no insulin: 31.6
Fallatah ⁵³ (2019)	132*	4 groups vitamin D levels (deficient versus optimal versus therapeutic versus excess)	Means not reported; ranges are BMI >30: 50.0-77.8% BMI >35: 22.2-50.0%	Means not reported; ranges of 0%-23.2%, 0%-39.4%, 25.3%-100%, 0-18.2% and 0-5% in the age groups of <30 years, 30-34

Author (Year)	Total Study Size	# of Exposure Groups	Maternal Pre- Pregnancy BMI (range of means or medians across groups)	Maternal Age (range of means or medians across groups)
				years, 35-39, 40-44 and <u>45-50</u> years
Bar-Zeev ⁵⁴ (2020)	222,408*	5 groups prenatal smoking (non-smoker, quit smoking before pregnancy, quit smoking during pregnancy, reduced the amount smoked, smoked the same or more)	Means not reported	Means not reported
Kong ⁵⁵ (2019)	649,043*	4 groups prematurity diabetes (No diabetes, pregestational diabetes treated with insulin, pregestational type II diabetes not treated with insulin, GDM)	Means not reported; ranges are BMI <18.5: 0.8-4% BMI 18.5 - <25: 24.0-64.3% BMI 25 - <30: 18.7-31.3% BMI >30: 5.7-21.5% BMI >35: 2.0-25.2%	Means not reported; ranges are <20: 1.4-2.5% 20-24: 10.9-16.1% 25-30: 25.4-32.1% 30-34: 30.5-32.5% 35-55: 17.8-30.7%
Ukah ⁵⁶ (2019)	165,908*	3 groups on GWG in obese women (optimal, low, excess weight gain)	Means not reported	Means not reported; ranges are 15-19: 4.0-6.0% 20-24: 21.7-24.7% 25-30: 30.5-31.2% 30-34: 24.21-25.9% 35-39: 11.6-13.7% ≥40: 2.7-3.6%
Feghali ⁵⁷ (2019)	5,814*	3 groups on GWG in obese women at 24-28 weeks (adequate, inadequate, excess)	Adequate: 31.4 Inadequate: 34.4 Excess: 30.4	Adequate: 29.5 Inadequate: 28.9 Excess: 29.8
Roussel ⁵⁸ (2019)	996*	3 groups on GWG in obese women (recommended weight gain, low weight gain, weight loss)	Recommended weight gain: 36.88 Low weight gain: 37.17 Weight loss: 37.44	Recommended weight gain: 29.24 Low weight gain: 28.94 Weight loss: 29.48
Nowak ⁵⁹ (2019)	474*	4 groups on GWG based on BMI (underweight, normal, overweight, obese)	Underweight: 9.07% Normal: 66.0% Overweight: 19.2% Obese: 5.70%	Underweight: 30.14 Normal: 31.79 Overweight: 32.62 Obese: 31.31
Thompson ⁶⁰ (2019)	10,811,496	3 groups on GWG (<5 kg, 6-9 kg, >9 kg),	Means not reported; ranges are BMI <18.5: 1.1-1.5% BMI 18.5 - <25: 11.3-19.5% BMI 25 - <30: 3.6-16.6% BMI >30: 2.2-9.4% BMI >35: 1.3-3.8% BMI >40: 0.9-2.2%	Means not reported
Benjamin ⁶¹ (2019)	694	3 groups on interpregnancy BMI changes (LGA, SGA, preterm birth)	LGA: 27.7 SGA: 25.4 Preterm birth: 25.2	Means not reported; ranges are <20: 6.3-8.2% 20-24: 17.9-33.7% 25-30: 24.3-36.2% 30-34: 17.1-25.0% >35: 8.0-15.8%
Thagaard ⁶² (2019)	2,503	3 groups on concentrations of adiponectin and leptin biomarker (unaffected, hypertension, preeclampsia)	Means not reported; ranges are BMI <18.5: 21.9-51.2% BMI >30: 33.2-54.7% BMI >35: 15.6-24.1%	Unaffected: 29.3 Hypertension: 29.2 Preeclampsia: 28.2

Author (Year)	Total Study Size	# of Exposure Groups	Maternal Pre- Pregnancy BMI (range of means or medians across groups)	Maternal Age (range of means or medians across groups)
Grove ⁶³ (2019)	20,069	4 groups on GWG in 2 nd and 3 rd pregnancies (term birth in 2 nd birth, preterm birth in 2 nd birth, term birth in 3 rd birth, preterm birth in 3 rd birth)	Term birth in 2 nd birth: 23.5 Preterm birth in 2 nd birth: 23.7 Term birth in 3 rd birth: 24.2 Preterm birth in 3 rd birth: 23.9	Term birth in 2 nd birth: 29 Preterm birth in 2 nd birth: 29 Term birth in 3 rd birth: 29 Preterm birth in 3 rd birth: 29
Shaukat ⁶⁴ (2019)	1,134	4 groups on different outcomes in Arab versus non-Arab (underweight, overweight, obese, missing BMI)	Underweight: 35.63% Overweight: 35.19% Obese: 20.28% Missing BMI info: 8.91%	Means not reported; ranges are 18-24: 31.7-52.48% 25-30: 38.86-49.57% 31-44: 8.66-18.7%
Moore Simas ⁶⁵ (2019)	2,039	2 groups on GWG, GDM, AGT among Latinas (Proyecto Buena Salud data set and University of Massachusetts Memorial Health Care data set)	Means not reported; ranges are BMI <18.5: 5.1-6.1% BMI 18.5 - <25: 41.2-49.2% BMI 25 - <30: 22.8-25.4% BMI >30: 22.0-28.3%	PBS: 22.7 UMMHC: 25.9
Frankenthal ⁶⁶ (2019)	1,058	2 groups on GWG (assisted reproduction treatment versus spontaneous conception)	Means not reported; ranges are BMI <18.5: 7.5-8.5% BMI 18.5 - <25: 63.7-63.7% BMI 25 - <30: 16.0-17.1% BMI >30: 7.6-11.7%	Assisted reproduction treatment: 33 Spontaneous conception: 30.7
Laine ⁶⁷ (2019)	6,920	2 groups on antidepressant use in pregnancies (non-user versus user)	Means not reported; ranges are BMI <18.5: 2.9-4.1% BMI 18.5 - <25: 56.3-67% BMI 25 - <30: 19.1-24.2% BMI >30: 9.8-16.6%	Non-user: 28.3 User: 27.9
Boudet-Berquier ⁶⁸ (2017)	3,208	4 groups on parity (underweight, normal weight, overweight, obese)	Underweight: 7.48% Normal weight: 64.4% Overweight: 18.2% Obese: 9.91%	Means not reported; ranges are 18-24: 15.9-28.6% 25-29: 32.1-34.5% 30-34: 22.9-33.0% ≥35: 10.7-25.7%
Janevic ⁶⁹ (2018)	668,035	14 groups on different outcomes in ethnicities and places of birth (Black US born, Black foreign born, White US born, White foreign born, all Hispanic US born, all Hispanic foreign born, all Asian US born, all Asian foreign born, Mexican US born, Mexican foreign born, Chinese US born, Chinese foreign born, Indian US born, Indian foreign born)	Means not reported; ranges are BMI <18.5: 2.30-17.20% BMI 18.5 - <25: 37.5-74.60% BMI 25 - <30: 7.90-34.50% BMI >30: 1.00-16.80% BMI >35: 0.20-8.30% BMI >40: 0.00-6.10%	Black US born: 27.1 Black foreign born: 30.8 White US born: 26.6 White foreign born: 28.6 All Hispanic US born: 31.9 All Hispanic foreign born: 30.2 All Asian US born: 31.3 All Asian foreign born: 31.1 Mexican US born: 23.3 Mexican foreign born: 28.3 Chinese US born: 30.7 Chinese foreign born: 29.3 Indian US born: 32.6 Indian foreign born: 30.1
Anderson ⁷⁰ (2016)	5,193,386	4 groups on different outcomes in ethnicities (American Indian/Alaska Native, Black, White, Hispanic)	Means not reported; ranges are BMI <18.5: 4.3-4.7% BMI 18.5 - <25: 43.4-53.4% BMI 25 - <30: 22.9-25.3% BMI >30: 19.1-26.8%	Means not reported; ranges are <15: 0.1-0.6% 15-19: 12.6-32.7% 20-24: 27.9-39.3% 25-29: 16.9-30.2%

Author (Year)	Total Study Size	# of Exposure Groups	Maternal Pre- Pregnancy BMI (range of means or medians across groups)	Maternal Age (range of means or medians across groups)
				30-34: 7.4-20.6% 35-39: 2.6-7.0% 40-44: 0.5-1.5% ≥45: 0.0-0.1%
Zamora- Kapoor ⁷¹ (2016)	71,080	2 groups on different outcomes in ethnicities (American Indian/Alaska Native versus White)	Means not reported; ranges are BMI <18.5: 2.7-3.5% BMI 18.5 - <25: 41.4-52.1% BMI 25 - <30: 24.5-27.6% BMI >30: 19.9-28.3%	Means not reported; ranges are 12-19: 13.5-37.1% 20-24: 29.3- 37.7% 25-29: 15.3-28.0% 30-34: 6.8-19.6% 35-55: 3.1-9.6%
Gernand ⁷² (2014)	792	2 groups on Vitamin D status (non-SGA versus SGA)	Means not reported; ranges are BMI 18.5 - <25: 32.5-34% BMI 25 - <30: % BMI >30: 22.5-29.1% BMI >35: 22.3-24.7%	Means not reported; ranges are <15: 12.1-12.6% 15-19: 55.7-58.3% 20-24: 29.1-31.4%
Subramaniam ⁷³ (2015)	14,525	6 groups on 1-hour glucose challenge test results (GCT <120, GCT 120-129, GCT 130-134, GCT 135-139, GCT 140-144, GCT 145-199)	GCT <120: 25 GCT 120-129: 26 GCT 130-134: 26 GCT 135-139: 27 GCT 140-144: 27 GCT 145-199: 28	GCT <120: 21 GCT 120-129: 23 GCT 130-134: 23 GCT 135-139: 23 GCT 140-144: 24 GCT 145-199: 25

KEY:DII=dietary inflammatory index; GWG=gestational weight gain; IVF=in-vitro fertilization; LAGB=laparoscopic adjustable gastric bypass; PC=prospective cohort; PCOS=polycystic ovary syndrome; RC=retrospective cohort; RYGB=roux-en-Y gastric bypass; SES=socio-economic status; LSG=laparoscopic sleeve gastrectomy; LGA=large gestational age; AGT=abnormal glucose tolerance.

*denotes cohort included both obese and non-obese participants

Overview of Adjustments for Covariates Across Studies

Study (Year)	Adj?	Covariates Accounted for In Studies Where Multivariable Analysis was Presented															
		Maternal age	Maternal ethnicity	Maternal BMI/obesity status	Maternal SES	Maternal education	Marital status	Maternal height	Presence or adequacy of prenatal care	History of diabetes	History of smoking	History of alcohol	Parity	Mode of delivery	Gestational age	History of pregnancy complications (PE, GDM, etc)	Other Characteristics Noted
Sen ¹³ (2016)	Y	X	X	X		X					X		X				Household income
Davies-Tuck ¹⁴ (2016)	N																
Marshall ¹⁵ (2014)	Y	X				X	X		X		X		X				History of caesarean section, infant gender, Medicaid status
Machtinger ¹⁶ (2015)	Y	X	X							X	X		X				Hypertension
Snowden ¹⁷ (2016)	Y	X				X			X				X				Insurance status
Elkholi ¹⁸ (2014)	N																
Parker ¹⁹ (2015)	Y	X	X							X	X						Hypertension
Persson ²⁰ (2012)	Y	X	X					X			X		X				Hypertension
Lamminpaa ²¹ (2016)	N																
Metsälä ²² (2015)	Y	X															Socioeconomic status
Houde ²³ (2015)	Y		X			X	X					X		X			Comorbidities, birth weight
Masho ²⁴ (2012)	N																
Kim ²⁵ (2013)	Y	X	X										X				
Ducarme ²⁶ (2013)	N																
Halloran ²⁷ (2012)	N																
Louis ²⁸ (2012)	Y	X	X	X													
Hedderson ²⁹ (2012)	Y	X				X							X		X		
Olivarez ³⁰ (2011)	N																
Salihu ³¹ (2010)	Y	X	X	X		X	X		X		X						

Study (Year)	Adj?	Covariates Accounted for In Studies Where Multivariable Analysis was Presented															
		Maternal age	Maternal ethnicity	Maternal BMI/obesity status	Maternal SES	Maternal education	Marital status	Maternal height	Presence or adequacy of prenatal care	History of diabetes	History of smoking	History of alcohol	Parity	Mode of delivery	Gestational age	History of pregnancy complications (PE, GDM, etc)	Other Characteristics Noted
Aliyu ³² (2010)	Y		X			X	X		X		X	X	X			X	
Aliyu ³³ (2010)	Y					X	X		X		X	X	X			X	
Shachar ³⁴ (2015)	Y	X				X			X	X	X		X			X	Payor
Salihu ³⁵ (2009)	Y	X				X	X		X	X	X	X	X			X	Anemia, infection, hypertension
Thrift ³⁶ (2014)	Y	X									X		X				Remoteness Index of Australia category
Barton ³⁷ (2014)	N																
Kim ³⁸ (2014)	Y	X	X	X												X	Enrollment in Women, Infants and Children's Program
Reeske ³⁹ (2012)	Y	X															
Lynch ⁴⁰ (2012)	Y	X	X								X		X				
Belogolovkin ⁴¹ (2012)	Y	X	X	X		X	X				X		X				Event year
Hogh ⁴² (2020)	Y	X	X	X		X					X		X	X			Exercise
Njagu ⁴³ (2020)	N	X	X	X					X	X	X		X	X	X	X	Private insurance, drug use, chronic hypertension, depression
Malik ⁴⁴ (2020)	N	X		X						X			X		X	X	Hypertension, hyperlipidemia, asthma,
Porteous ⁴⁵ (2020)	N	X		X	X		X		X		X		X	X	X	X	Induction, macrosomia, maternal birth country, Indigenous status
Pratt ⁴⁶ (2019)	Y	X		X									X	X	X	X	Indigenous status, birth country
Dolin ⁴⁷ (2019)	N	X	X	X					X				X	X	X	X	Gestational weight gain, bariatric procedure type
Browne ⁴⁸ (2019)	Y	X	X	X		X			X	X	X		X		X	X	
Ijas ⁴⁹ (2019)	Y	X		X	X						X		X	X		X	
Karadag ⁵⁰	N	X		X									X	X	X	X	Gravidity, abortion

Study (Year)	Adj?	Covariates Accounted for In Studies Where Multivariable Analysis was Presented															
		Maternal age	Maternal ethnicity	Maternal BMI/obesity status	Maternal SES	Maternal education	Marital status	Maternal height	Presence or adequacy of prenatal care	History of diabetes	History of smoking	History of alcohol	Parity	Mode of delivery	Gestational age	History of pregnancy complications (PE, GDM, etc)	Other Characteristics Noted
(2020)																	
Ram ⁵¹ (2019)	Y	X	X	X				X			X		X	X	X	X	Pre-pregnancy weight, fertility treatments
Meghelli ⁵² (2020)	N	X		X							X		X	X	X	X	hospitalization
Fallatah ⁵³ (2019)	N	X		X						X			X		X	X	Gravidity, nationality,
Bar-Zeev ⁵⁴ (2020)	Y	X	X	X							X		X			X	Gestational weight gain, hypertension
Kong ⁵⁵ (2019)	Y	X		X						X	X		X	X	X	X	Birth year, country of birth
Ukah ⁵⁶ (2019)	N	X	X	X		X	X			X	X		X	X	X	X	Insurance, assisted conception, hypertension
Feghali ⁵⁷ (2019)	N	X	X	X							X		X	X	X	X	Insurance, hypertension, glucose levels, gestational weight gain
Roussel ⁵⁸ (2019)	Y	X		X			X				X		X	X	X	X	French origin, occupation, chronic hypertension
Nowak ⁵⁹ (2019)	N	X		X									X		X		Gestational weight gain, pregnancy length, neonatal birth weight
Thompson ⁶⁰ (2019)	N			X										X		X	
Benjamin ⁶¹ (2019)	Y	X	X	X		X	X	X		X	X				X	X	Insurance, hypertension, gestational weight gain
Thagaard ⁶² (2019)	N	X	X	X							X		X		X	X	Conception
Grove ⁶³ (2019)	Y	X	X	X		X					X			X	X	X	Employment, fertility treatment, gender of infant
Shaukat ⁶⁴ (2019)	Y	X	X	X						X				X	X	X	Hypertension, thyroid condition
Moore Simas ⁶⁵ (2019)	Y	X		X					X	X	X				X	X	Gravidity, language preference, gestational weight gain
Frankenthal ⁶⁶ (2019)	N	X		X		X							X	X	X	X	Gestational weight gain, hypertension
Laine ⁶⁷ (2019)	Y	X		X		X	X	X			X		X	X		X	Weight, fertility treatment, hospitalization
Boudet-Berquier ⁶⁸	Y	X		X		X	X		X		X	X	X	X	X	X	Country of birth, occupation, time of return to work,

Study (Year)	Adj?	Covariates Accounted for In Studies Where Multivariable Analysis was Presented															Other Characteristics Noted
		Maternal age	Maternal ethnicity	Maternal BMI/obesity status	Maternal SES	Maternal education	Marital status	Maternal height	Presence or adequacy of prenatal care	History of diabetes	History of smoking	History of alcohol	Parity	Mode of delivery	Gestational age	History of pregnancy complications (PE, GDM, etc)	
(2017)																	gestational weight gain, infant sex/weight
Janevic ⁶⁹ (2018)	Y	X	X	X		X		X					X				Insurance
Anderson ⁷⁰ (2016)	Y	X	X	X		X	X		X	X						X	Child's sex
Zamora-Kapoor ⁷¹ (2016)	Y	X	X	X		X	X				X						Insurance; Women, Infants, and Children (WIC) participation
Gernand ⁷² (2014)	Y	X	X	X		X	X			X	X		X		X	X	Season of blood sampling, latitude of study site, chronic hypertension, neonatal health
Subramaniam ⁷³ (2015)	Y	X	X	X							X	X			X	X	Street drugs use, glucose levels, infant sex,

File S4: Deviations from Study Protocol

During the process of this review, certain modifications to the a priori protocol took place. These were as follows:

- ***Regarding Study Assessments.*** Our protocol indicated we would consider risk of bias evaluations if sufficient resources were available. Due to resource constraints, evaluations were not pursued. The majority of evidence is considered by the research team to be at an increased risk of selection bias due to the non-randomized nature of the included studies as well as the common lack of availability of detailed demographic data for women with obesity women within studies that also enrolled women with underweight, recommended weight and overweight women BMIs. Given the exploratory nature of this review, the team feels there is strong value in a summary of all the evidence located.
- ***Regarding Outcomes Assessed.*** During full text screening, due to the volume of literature encountered and limited resources, the research team collectively decided to focus interests on a reduced number of clinical outcomes for reasons of feasibility. Those that were originally of interest were set out to be stillbirth, fetal loss, gestational hypertension, pre-eclampsia, hypertensive disorders of pregnancy, eclampsia, pregnancy-induced hypertension, gestational diabetes, new onset diabetes, hospital admission, preterm birth, ICU admission, SGA, low birth weight, IUGR, maternal mortality and VTE. The collection of endpoints was subsequently reduced to those discussed in the review as presented.

Table S3: PRISMA Checklist

Section/topic	#	Checklist item	Reported on page #
TITLE			
Title	1	Identify the report as a systematic review, meta-analysis, or both.	1
ABSTRACT			
Structured summary	2	Provide a structured summary including, as applicable: background; objectives; data sources; study eligibility criteria, participants, and interventions; study appraisal and synthesis methods; results; limitations; conclusions and implications of key findings; systematic review registration number.	2
INTRODUCTION			
Rationale	3	Describe the rationale for the review in the context of what is already known.	3
Objectives	4	Provide an explicit statement of questions being addressed with reference to participants, interventions, comparisons, outcomes, and study design (PICOS).	4
METHODS			
Protocol and registration	5	Indicate if a review protocol exists, if and where it can be accessed (e.g., Web address), and, if available, provide registration information including registration number.	4
Eligibility criteria	6	Specify study characteristics (e.g., PICOS, length of follow-up) and report characteristics (e.g., years considered, language, publication status) used as criteria for eligibility, giving rationale.	4
Information sources	7	Describe all information sources (e.g., databases with dates of coverage, contact with study authors to identify additional studies) in the search and date last searched.	4
Search	8	Present full electronic search strategy for at least one database, including any limits used, such that it could be repeated.	44-62
Study selection	9	State the process for selecting studies (i.e., screening, eligibility, included in systematic review, and, if applicable, included in the meta-analysis).	5
Data collection process	10	Describe method of data extraction from reports (e.g., piloted forms, independently, in duplicate) and any processes for obtaining and confirming data from investigators.	6
Data items	11	List and define all variables for which data were sought (e.g., PICOS, funding sources) and any assumptions and simplifications made.	6-7

Section/topic	#	Checklist item	Reported on page #
Risk of bias in individual studies	12	Describe methods used for assessing risk of bias of individual studies (including specification of whether this was done at the study or outcome level), and how this information is to be used in any data synthesis.	69-147
Summary measures	13	State the principal summary measures (e.g., risk ratio, difference in means).	8
Synthesis of results	14	Describe the methods of handling data and combining results of studies, if done, including measures of consistency (e.g., I^2) for each meta-analysis.	8
Risk of bias across studies	15	Specify any assessment of risk of bias that may affect the cumulative evidence (e.g., publication bias, selective reporting within studies).	N/A
Additional analyses	16	Describe methods of additional analyses (e.g., sensitivity or subgroup analyses, meta-regression), if done, indicating which were pre-specified.	8-9
RESULTS			
Study selection	17	Give numbers of studies screened, assessed for eligibility, and included in the review, with reasons for exclusions at each stage, ideally with a flow diagram.	7
Study characteristics	18	For each study, present characteristics for which data were extracted (e.g., study size, PICOS, follow-up period) and provide the citations.	41-43
Risk of bias within studies	19	Present data on risk of bias of each study and, if available, any outcome level assessment (see item 12).	N/A
Results of individual studies	20	For all outcomes considered (benefits or harms), present, for each study: (a) simple summary data for each intervention group (b) effect estimates and confidence intervals, ideally with a forest plot.	9-17
Synthesis of results	21	Present results of each meta-analysis done, including confidence intervals and measures of consistency.	29-32
Risk of bias across studies	22	Present results of any assessment of risk of bias across studies (see Item 15).	N/A
Additional analysis	23	Give results of additional analyses, if done (e.g., sensitivity or subgroup analyses, meta-regression [see Item 16]).	N/A

Section/topic	#	Checklist item	Reported on page #
DISCUSSION			
Summary of evidence	24	Summarize the main findings including the strength of evidence for each main outcome; consider their relevance to key groups (e.g., healthcare providers, users, and policy makers).	17-18
Limitations	25	Discuss limitations at study and outcome level (e.g., risk of bias), and at review-level (e.g., incomplete retrieval of identified research, reporting bias).	19-20
Conclusions	26	Provide a general interpretation of the results in the context of other evidence, and implications for future research.	20-21
FUNDING			
Funding	27	Describe sources of funding for the systematic review and other support (e.g., supply of data); role of funders for the systematic review.	1