SUPPLEMENTAL DIGITAL CONTENT

 **APPENDIX 1. LITERATURE SEARCH STRATEGY**

ACOG OBSTETRIC CARE CONSENSUS NUMBER 11

*PREGNANCY WITH ANTICIPATED DELIVERY AT AGE 35 AND BEYOND*

**Database**: Ovid MEDLINE(R) <1946 to November Week 5 2021>

*All searches were limited to human, English, and 2000-present*

|  |  |  |
| --- | --- | --- |
| **Line** | **Search** | **Results** |
| 1 | (advanced maternal age or advanced reproductive age).ti,ab. | 2384 |
| 2 | maternal age/ | 20458 |
| 3 | maternal age.ti. | 1822 |
| 4 | 2 or 3 | 20525 |
| 5 | ("age 35" or "aged 35" or "older than 35" or "over 35" or "35 years" or "age 40" or "aged 40" or "older than 40" or "over 40" or "40 years" or "age 45" or "aged 45" or "older than 45" or "over 45" or "45 years" or "age 50" or "aged 50" or "older than 50" or "over 50" or "50 years" or middle age$ or older woman$ or older women$ or older mother$ or older matern$ or advanced age$).ti. | 33919 |
| 6 | older.ti. | 94594 |
| 7 | 5 or 6 | 120760 |
| 8 | 4 and 7 | 617 |
| 9 | 1 or 8 | 2911 |
| 10 | limit 9 to (english language and humans) | 2585 |
| 11 | limit 10 to yr="2000 -Current" | 1976 |

# Maternal Risks – Pregnancy, Antepartum, Intrapartum, Postpartum

|  |  |  |
| --- | --- | --- |
| **Line** | **Search** | **Results** |
| 12 | preconception care/ or birth intervals/ | 4389 |
| 13 | (prepregnan$ or pre-pregnan$ or preconcept$ or pre-concept$ or periconcept$ or peri-concept$ or interpregnan$ or inter-pregnan$ or "before pregnancy").ti,ab. | 19103 |
| 14 | 12 or 13 | 21388 |
| 15 | 11 and 14 | 94 |
| 16 | prenatal care/ | 30431 |
| 17 | (antenat$ or ante-nat$ or prenat$ or pre-nat$ or antepart$ or ante-part$).ti,ab. | 135244 |
| 18 | 16 or 17 | 148978 |
| 19 | 11 and 18 | 612 |
| 20 | perinatal care/ or exp Delivery, Obstetric/ or exp labor, obstetric/ | 122285 |
| 21 | (intrapart$ or intra-part$ or peripart$ or peri-part$).ti,ab. | 17161 |
| 22 | (delivery or labor or labour or cesarean$ or caesarean$ or cesarian$ or caesarian$ or induc$).ti. | 1029872 |
| 23 | 20 or 21 or 22 | 1110456 |
| 24 | 11 and 23 | 354 |
| 25 | postpartum period/ or postnatal care/ | 33554 |
| 26 | (postpart$ or post-part$ or postnat$ or post-nat$).ti,ab. | 172732 |
| 27 | 25 or 26 | 184777 |
| 28 | 11 and 27 | 199 |
| 29 | pregnancy outcome/ or exp pregnancy complications/ or maternal death/ or maternal mortality/ or maternal health/ | 475266 |
| 30 | ((maternal or pregnan$ or obstetric$) adj3 (risk$ or outcome$ or comorbid$ or co-morbid$ or morbid$ or mortalit$)).ti,ab. | 89157 |
| 31 | diabetes, gestational/ or gestational diab$.ti. or (gestational adj3 diab$).ti. | 13258 |
| 32 | hypertension/ or hypertens$.ti. | 302202 |
| 33 | ((pregnancy or gestational) adj3 hypertens$).ti,ab. | 12836 |
| 34 | pregnancy complications, cardiovascular/ | 16777 |
| 35 | Cardiovascular Diseases/ or exp heart diseases/ | 1338022 |
| 36 | (cardiovascular disease$ or cardio-vascular disease$ or cardiac disease$ or heart disease$ or cardiomyopath$).ti,ab. | 380541 |
| 37 | Pre-Eclampsia/ or eclampsia/ | 35650 |
| 38 | (preeclamp$ or pre-eclamp$ or eclamp$).ti,ab. | 34058 |
| 39 | exp Autoimmune Diseases/ | 508372 |
| 40 | (autoimmun$ or auto-immun$).ti,ab. | 164477 |
| 41 | overnutrition/ or obesity/ or obesity, morbid/ or overweight/ or obesity, abdominal/ or body mass index/ | 315948 |
| 42 | (obes$ or overweight or overnutrition or over-weight or over-nutrition).ti,ab. | 306340 |
| 43 | 29 or 30 or 31 or 32 or 33 or 34 or 35 or 36 or 37 or 38 or 39 or 40 or 41 or 42 | 3016038 |
| 44 | 11 and 14 and 43 | 76 |
| 45 | 11 and 19 and 43 | 352 |
| 46 | 11 and 24 and 43 | 311 |
| 47 | 11 and 27 and 43 | 140 |

# Fetal Risks

|  |  |  |
| --- | --- | --- |
| **Line** | **Search** | **Results** |
| 48 | exp fetal monitoring/ or fetal movement/ | 10161 |
| 49 | (surveill$ adj3 (fetus or foetus or fetal or foetal or antepart$ or ante-part$ or antenat$ or ante-nat$)).ti,ab. | 1304 |
| 50 | ((well-being or wellbeing or movement) adj3 (fetus or foetus or fetal or foetal)).ti,ab. | 3073 |
| 51 | (kick count$ or contraction stress or oxytocin challenge or nonstress test$ or non-stress test$ or amniotic fluid volume or amniotic fluid index).ti,ab. | 2785 |
| 52 | (delivery, obstetric/ or delivery.ti.) and (time factors/ or timing.ti. or mode.ti.) | 8062 |
| 53 | Pregnancy, Multiple/ | 9363 |
| 54 | ((multifetal or multi-fetal or multifoetal or multi-foetal) adj3 (pregnan$ or birth$ or gestation$)).ti,ab. | 779 |
| 55 | ((high order or higher order) adj3 (multiple$ or birth$ or pregnan$ or gestation$)).ti,ab. | 939 |
| 56 | (multiple adj3 (pregnan$ or birth$ or gestation$)).ti,ab. | 10863 |
| 57 | (twin$ or triplet$ or quadruplet$ or quintuplet$ or sextuplet$ or septuplet$ or octuplet$).ti,ab. | 69266 |
| 58 | gestational age/ or fetal weight/ or fetal nutrition disorders/ or fetal macrosomia/ | 89198 |
| 59 | (gestational age or gestational weight or fetal weight or foetal weight or macrosom$).ti. | 9541 |
| 60 | exp ultrasonography, prenatal/ or ultrasonography, doppler/ or ultrasonography, doppler, duplex/ or ultrasonography, doppler, color/ or ultrasonography, doppler, pulsed/ | 70086 |
| 61 | ((ultraso$ or sonogr$) adj3 (fetus or foetus or fetal or foetal or antepart$ or ante-part$ or antenat$ or ante-nat$ or prenat$ or pre-nat$)).ti,ab. | 13094 |
| 62 | fetal growth retardation/ | 17301 |
| 63 | ((intrauterine growth or intra-uterine growth or fetal growth or foetal growth) adj3 (restrict$ or retard$)).ti,ab. | 17772 |
| 64 | trisomy/ or tetrasomy/ or chromosome deletion/ or monosomy/ or aneuploidy/ or exp chromosome disorders/ or chromosome aberrations/ or down syndrome/ | 151609 |
| 65 | (aneuploid$ or triploid$ or monoploid$ or trisom$ or monosom$ or tetrasom$ or down$ syndrome).ti,ab. | 61293 |
| 66 | (chromosom$ adj (abnormal$ or aberrat$ or delet$ or disorder$)).ti,ab. | 36792 |
| 67 | premature birth/ or obstetric labor premature/ | 29715 |
| 68 | ((premature or preterm) adj4 (labor or labour or delivery or birth)).ti,ab. | 42965 |
| 69 | exp congenital abnormalities/ | 623032 |
| 70 | (congenital abnormalit$ or congenital defect$ or birth defect$).ti,ab. | 20407 |
| 71 | fetal death/ or stillbirth/ | 29405 |
| 72 | stillbirth$.ti. | 2639 |
| 73 | (intrauterine adj3 death$).ti,ab. | 3432 |
| 74 | ((fetal or foetal or fetus or foetus) adj (mortality or death$ or demise$ or loss)).ti,ab. | 13924 |
| 75 | (adverse adj (fetal or foetal) adj outcome$).ti,ab. | 525 |
| 76 | exp genetic diseases, inborn/ | 686288 |
| 77 | ((Hereditary or Genetic) adj3 (disease$ or Disorder$ or defect$)).ti,ab. | 68083 |
| 78 | Single Gene Defect$.ti,ab. | 481 |
| 79 | \*fetus/ or exp \*fetal diseases/ | 86418 |
| 80 | (fetus or foetus or fetal or foetal).ti. | 109695 |
| 81 | 48 or 49 or 50 or 51 or 52 or 53 or 54 or 55 or 56 or 57 or 58 or 59 or 60 or 61 or 62 or 63 or 64 or 65 or 66 or 67 or 68 or 69 or 70 or 71 or 72 or 73 or 74 or 75 or 76 or 77 or 78 or 79 or 80 | 1618714 |
| 82 | 11 and 81 | 1275 |
| 83 | 44 or 45 or 46 or 47 | 666 |
| 84 | 82 not 83 | 813 |
| 85 | fetus/ or exp fetal diseases/ | 144423 |
| 86 | (fetus or foetus or fetal or foetal).ti,ab. | 285343 |
| 87 | 85 or 86 | 343772 |
| 88 | 84 and 87 | 290 |

# Costs

|  |  |  |
| --- | --- | --- |
| **Line** | **Search** | **Results** |
| 89 | exp economics/ or ec.fs. | 771939 |
| 90 | (cost or costs or economic$).ti. | 144317 |
| 91 | (expenditure$ not energy).mp. | 44425 |
| 92 | 89 or 90 or 91 | 803624 |
| 93 | limit 92 to (human and english language) | 544171 |
| 94 | 11 and 93 | 45 |

# Health Equity

|  |  |  |
| --- | --- | --- |
| **Line** | **Search** | **Results** |
| 95 | (equit$ or inequit$ or inequalit$ or disparit$ or equality).ti,ab. | 123099 |
| 96 | (ethnic$ or race or racial$ or racis$ or prejudic$ or race-relat$).ti,ab. | 233833 |
| 97 | (implicit adj3 bias).ti,ab. | 787 |
| 98 | ((bias or prejudic$ or racis$) and (unconcious$ or implicit$ or institutional$ or structural$ or dismantl$)).ti,ab. | 7331 |
| 99 | ((social$ or socio-economic or socioeconomic or economic or structural or material) adj3 (advantage$ or disadvantage$ or exclude$ or exclusion or include$ or inclusion or status or position or gradient$ or hierarch$ or class$ or determinant$)).ti,ab. | 117322 |
| 100 | (disproportionate risk$ or systemic barrier$).ti,ab. | 632 |
| 101 | (health adj3 (gap$ or gradient$ or hierarch$)).ti,ab. | 3658 |
| 102 | (SES or SEP or sociodemographic$ or socio-demographic$ or income or wealth$ or poverty or educational level or (level adj education$) or educational attainment or well educated or better educated or unemploy$ or home owner$ or tenure or affluen$ or well off or better off or worse off).ti,ab. | 279966 |
| 103 | (socio-economic or socioeconomic).ti,ab. | 114775 |
| 104 | ((African or Black) adj3 American$).ti,ab. | 55330 |
| 105 | (Hispanic$ or Latino$ or Latina$ or Latinx or Asian American$).ti,ab. | 59389 |
| 106 | Vulnerable populations/ or medically underserved area/ or Socioeconomic factors/ or Social segregation/ or Race factors/ or Race relations/ or Racism/ or Prejudice/ or Poverty/ or Social class/ or Healthcare disparities/ or Health status disparities/ or Poverty areas/ or Urban population/ or Rural Population/ or Ethnic groups/ or African Americans/ or Hispanic Americans/ or Asian Americans/ | 493524 |
| 107 | 95 or 96 or 97 or 98 or 99 or 100 or 101 or 102 or 103 or 104 or 105 or 106 | 963539 |
| 108 | 11 and 107 | 294 |
| 109 | advanced maternal age.ti. and 43 | 268 |
| 110 | 44 or 45 or 46 or 47 | 666 |
| 111 | 109 not 110 | 141 |
| 112 | 111 not 88 | 117 |
| 113 | limit 112 to (english language and humans and yr="2000 -Current") | 77 |

# Database: PubMed

*All searches were limited to English and in process and 2000-present*

|  |  |  |
| --- | --- | --- |
| **Line** | **Search** | **Results** |
| 1 | (advanced maternal age\*[tiab] OR advanced reproductive age\*[tiab]) OR ((maternal[ti] OR pregnan\*[ti] OR obstet\*[ti]) AND ("age 35"[ti] OR "aged 35"[ti] OR "older than 35"[ti] OR "over 35"[ti] OR "35 years"[ti] OR "age 40"[ti] OR "aged 40"[ti] OR "older than 40"[ti] OR "over 40"[ti] OR "40 years"[ti] OR "age 45"[ti] or "aged 45"[ti] OR "older than 45"[ti] OR "over 45"[ti] OR "45 years"[ti] OR "age 50"[ti] OR "aged 50"[ti] OR "older than 50"[ti] OR "over 50"[ti] OR "50 years"[ti] OR middle age\*[ti] OR older[ti] OR advanced age\*[ti])) | 3334 |
| 2 | english[la] AND (publisher[sb] OR inprocess[sb] OR pubmednotmedline[sb] OR (pubstatusnihms AND publisher[sb]) OR (pubstatuspmcsd AND publisher[sb])) | 4587537 |
| 3 | #1 AND #2 | 370 |
| 4 | (matern\*[tiab] OR pregnan\*[ti] OR obstet\*[tiab] OR gestation\*[tiab] OR prepregnan\*[tiab] OR pre-pregnan\*[tiab] OR preconcept\*[tiab] OR pre-concept\*[tiab] OR periconcept\*[tiab] OR peri-concept\*[tiab] OR interpregnan\*[tiab] OR inter-pregnan\*[tiab] OR interconcept\*[tiab] OR inter-concept\*[tiab] OR "before pregnancy"[tiab] OR antenat\*[tiab] OR ante-nat\*[tiab] OR prenat\*[tiab] OR pre-nat\*[tiab] OR antepart\*[tiab] OR ante-part\*[tiab] OR intrapart\*[tiab] OR intra-part\*[tiab] OR peripart\*[tiab] OR peri-part\*[tiab] OR postpart\*[tiab] OR post-part\*[tiab] OR postnat\*[tiab] OR post-nat\*[tiab] OR delivery[ti] OR labor[ti] OR labour[ti] OR cesarean\*[ti] OR caesarean\*[ti] OR cesarian\*[ti] OR caesarian\*[ti] OR induc\*[ti]) AND (risk\*[ti] OR outcome\*[ti] OR comorbid\*[tiab] OR co-morbid\*[tiab] OR morbid\*[tiab] OR mortalit\*[tiab] OR cardiovascular disease\*[tiab] OR cardio-vascular disease\*[tiab] OR cardiac disease\*[tiab] OR heart disease\*[tiab] OR cardiomyopath\*[tiab] OR preeclamp\*[tiab] OR pre-eclamp\*[tiab] OR eclamp\*[tiab] OR autoimmun\*[tiab] OR auto-immun\*[tiab] OR obes\*[tiab] OR overweight[tiab] OR overnutrition[tiab] OR over-weight[tiab] OR over-nutrition[tiab] OR diab\*[tiab] OR hypertens\*[tiab] OR complication\*[tiab]) | 372602 |
| 5 | #3 AND #4 | 167 |
| 6 | #3 AND #4 from 2000 – 2021 | 163 |
| 7 | ((fetus[tiab] OR foetus[tiab] OR fetal[tiab] OR foetal[tiab] OR antepart\*[tiab] OR antenat\*[tiab] OR ante-part\*[tiab] OR ante-nat\*[tiab]) AND (surveill\*[tiab] OR well-being[tiab] OR wellbeing[tiab] OR movement[tiab] OR kick count\*[tiab] OR contraction stress[tiab] OR oxytocin challenge[tiab] OR nonstress test\*[tiab] OR non-stress test\*[tiab] OR amniotic fluid volume[tiab] OR amniotic fluid index[tiab] OR ultraso\*[tiab] OR sonogr\*[tiab] OR hereditary disease\*[tiab] OR hereditary disorder\*[tiab] OR hereditary defect\*[tiab] OR genetic disease\*[tiab] OR genetic disorder\*[tiab] OR genetic defect\*[tiab])) OR "mode of delivery"[tiab] OR delivery mode[tiab] OR "timing of delivery"[tiab] OR "delivery timing"[tiab] OR multifetal birth\*[tiab] OR multifetal gestation\*[tiab] OR multifetal pregnan\*[tiab] OR multi-fetal birth\*[tiab] OR multi-fetal gestation\*[tiab] OR multi-fetal pregnan\*[tiab] OR multifoetal birth\*[tiab] OR multifoetal gestation\*[tiab] OR multifoetal pregnan\*[tiab] OR multi-foetal birth\*[tiab] OR multi-foetal gestation\*[tiab] OR multi-foetal pregnan\*[tiab] OR multiple birth\*[tiab] OR multiple gestation\*[tiab] OR multiple pregnan\*[tiab] OR high order multiple\*[tiab] OR higher order multiple\*[tiab] OR twin\*[tiab] OR triplet\*[tiab] OR quadruplet\*[tiab] OR quintuplet\*[tiab] OR sextuplet\*[tiab] OR septuplet\*[tiab] OR octuplet\*[tiab] OR gestational age[ti] OR gestational weight[tiab] OR fetal weight[tiab] OR foetal weight[tiab] OR macrosom\*[tiab] OR intrauterine growth restrict\*[tiab] OR intra-uterine growth restrict\*[tiab] OR fetal growth restrict\*[tiab] OR foetal growth restrict\*[tiab] OR intrauterine growth retard\*[tiab] OR intra-uterine growth retard\*[tiab] OR fetal growth retard\*[tiab] OR foetal growth retard\*[tiab] OR aneuploid\*[tiab] OR triploid\*[tiab] OR monoploid\*[tiab] OR trisom\*[tiab] OR monosom\*[tiab] OR tetrasom\*[tiab] OR down syndrome[tiab] OR down's syndrome[tiab] OR chromosom\* abnormal\*[tiab] OR chromosom\* aberrat\*[tiab] OR chromosom\* delet\*[tiab] OR chromosom\* disorder\*[tiab] OR premature labor[tiab] OR premature labour[tiab] OR premature deliver\*[tiab] OR premature birth\*[tiab] OR preterm labor[tiab] OR preterm labour[tiab] OR preterm deliver\*[tiab] OR preterm birth[tiab] OR congenital abnormalit\*[tiab] OR congenital defect\*[tiab] OR birth defect\*[tiab] OR stillbirth\*[tiab] OR intrauterine death\*[tiab] OR fetal mortality[tiab] OR fetal death\*[tiab] OR fetal demise\*[tiab] OR fetal loss\*[tiab] OR foetal mortality[tiab] OR foetal death\*[tiab] OR foetal demise\*[tiab] OR foetal loss\*[tiab] OR fetal outcome\*[tiab] OR foetal outcome\*[tiab] OR Single Gene Defect\*[tiab] | 445719 |
| 8 | #3 AND #7 | 209 |
| 9 | #3 AND #7 from 2000 – 2021 | 201 |
| 10 | equit\*[ti] OR inequit\*[ti] OR inequalit\*[ti] OR disparit\*[ti] OR equality[ti] OR ethnic\*[ti] OR race[ti] OR racial\*[ti] OR racis\*[ti] OR prejudic\*[ti] OR race-relat\*[ti] OR unconcious bias\*[ti] OR implicit bias\*[ti] OR institutional racis\*[ti] OR structural bias\*[ti] OR structural racis\*[ti] OR social\*[ti] OR socio-economic[ti] OR socioeconomic[ti] OR economic[ti] OR disproportionate risk\*[ti] OR systemic barrier\*[ti] OR health gap[ti] OR health gradient\*[ti] OR health hierarch\*[ti] OR SES[ti] OR sociodemographic\*[ti] OR socio-demographic\*[ti] OR income[ti] OR wealth[ti] OR poverty[ti] OR educational level\*[ti] OR "level of education"[ti] OR educational attainment[ti] OR well-educated[ti] OR better-educated[ti] OR unemploy\*[ti] OR home owner\*[ti] OR affluen\*[ti] OR well-off[ti] OR better-off[ti] OR worse-off[ti] OR african american\*[ti] OR black[ti] OR hispanic\*[ti] OR latino\*[ti] OR latina\*[ti] OR latinx[ti] OR asian american\*[ti] OR vulnerabl\*[ti] OR underserved[ti] OR urban[ti] OR rural[ti] | 509659 |
| 11 | #3 AND #10 | 11 |