**Table S1** Definitions of features in Obstetrical Care Outcomes Assessment Program database used for data collection and propensity score estimation

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| **Variable** | **Definition in the database** |
| Maternal age >35 y | Maternal age of >35 years at the time of giving birth. |
| Maternal initial BMI | Body mass index based on weight at first prenatal visit or medical record documentation of self-reported pre-pregnancy weight. |
| Nulliparity | No previous pregnancies of >=20 weeks’ gestation. |
| Pre-pregnancy hypertension | Medical record documentation of Diagnosis of hypertension prior to this pregnancy. |
| Pre-pregnancy diabetes | Medical record documentation of Diagnosis of diabetes (Type 1 or Type 2) prior to this pregnancy. |
| Previous preterm birth | Previous pregnancy with birth at <37 weeks’ gestation. |
| Previous stillbirth | Previous pregnancy with a fetal death at >=20 weeks’ gestation. |
| In-vitro fertilization | Pregnancy conceived through in-vitro fertilization. |
| Pre-pregnancy nicotine use | Medical record documentation of nicotine use prior to pregnancy. |
| Distressed Communities Index | Transformed from zipcode into quintiles. |
| Private health insurance | Primary payor is private commercial health insurance payor. |
| Pre-pregnancy illicit substance use | Medical record documentation of Pre-pregnancy mis-use of prescribed drugs or use of illegal street drugs. |
| Self-reported race | Medical record documentation of Self-reported race . |
| Self-reported Hispanic ethnicity | Medical record documentation of Self-reported Hispanic ethnicity |
| Maternal height | Medical record documentation of measured or self-reported height |
| Pre-pregnancy marijuana use | Medical record documentation of Pre-pregnancy use of marijuana in any form |
| Hospital | Code for the hospital where the patient gave birth. |
| Year of delivery | Year that patient gave birth. |
| Type of obstetric care provider for prenatal care | Clinician (midwife, family practice, obstetrician, maternal fetal medicine specialist) who was documented in the medical record as providing antenatal care. |
| Type of obstetric care provider at admission | Clinician (midwife, gamily practice, obstetrician, maternal fetal medicine specialist) who was recorded in the medical record as responsible for the patient’s care at the time of admission to labor and delivery. |

**Table S2** Inverse-probability treatment weighted and unweighted *P*-values of features in propensity score analysis

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|  | **Aspirin versus No Aspirin Recommendation** | |
| **Characteristics** | **Unweighted p value** | **Weighted p value** |
| Maternal age >35 y | <0.001 | 0.421 |
| Maternal BMI >30Kg/m2 | <0.001 | 0.287 |
| Nulliparity | <0.001 | 0.111 |
| Pre-pregnancy hypertension | <0.001 | 0.904 |
| Pre-pregnancy diabetes | <0.001 | 0.129 |
| Previous preterm birth | <0.001 | 0.378 |
| Previous stillbirth | <0.001 | 0.255 |
| In-vitro fertilization | <0.001 | 0.797 |
| Pre-pregnancy nicotine use | 0.047 | 0.375 |
| Distressed Communities Index | <0.001 | 0.983 |
| Private health insurance | <0.001 | 0.812 |
| Pre-pregnancy illicit substance use | <0.001 | 0.688 |
| Self-reported race | <0.001 | 0.549 |
| Self-reported Hispanic ethnicity | <0.001 | 0.321 |
| Maternal height | <0.001 | 0.668 |
| Pre-pregnancy marijuana use | <0.001 | 0.948 |
| Hospital | <0.001 | 0.251 |
| Year of delivery | <0.001 | 0.582 |
| Type of obstetric care provider for prenatal care | <0.001 | 0.051 |
| Type of obstetric care provider at admission | <0.001 | 0.694 |