**Table S1:** Sensitivity, specificity, positive and negative predictive values, odds ratio and positive likelihood ratio for adverse pregnancy outcomes and composite of adverse pregnancy outcomes (CAPO and CAPO-S) in women with risk ≥1 in 50 (n=993)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Adverse pregnancy outcomes** | **Number of adverse outcomes in risk ≥1 in 50 cohort** | **Sensitivity****(CI 95%)** | **Specificity****(CI 95%)** | **PPV****(CI 95%)** | **NPV****(CI 95%)** | **OR****(CI 95%)** | **LR+****(CI 95%)** |
| **HDP****(n=669)** | 240 | 35.9%(32.2%-39.6%) | 94.0%(93.6%-94.4%) | 24.2%(22.0%-26.5%) | 96.5%(96.3%-96.7%) | 8.8(7.4-10.4) | 6.0(5.3-0.1) |
| **HDP <37wks****(n=88)** | 54 | 61.4%(50.4%-71.6%) | 92.8%(92.4%-93.3%%) | 5.4%(4.6%-6.4%) | 99.7%(99.6%-99.8%) | 20.6(13.4 - 31.8) | 8.6(9.2-10.2) |
| **PTB****(n=658)** | 122 | 18.5%(15.6%-21.7%) | 93.1%(92.6%-93.5%) | 12.3%(10.5%-14.3%) | 95.6%(95.5%-95.8%) | 3.1(2.5 - 3.8) | 2.7(2.3-0.0) |
| **PTB <34wks****(n=193)** | 33 | 17.1%(12.1%-23.2%) | 92.6%(92.2%-93.1%) | 3.3%(2.4%-4.5%) | 98.7%(98.6%-98.8%) | 2.6(1.8 - 3.8) | 2.3(1.7-3.2) |
| **SGA <10th****(n=1810)** | 254 | 14.0%(12.5%-15.7%) | 93.5%(93.1%-94.0%) | 25.6%(23.1-28.2%) | 87.3%(87.1%-87.5%) | 2.4(2.0 - 2.7) | 2.2(1.9-0.0) |
| **SGA <5th****(n=1074)** | 174 | 16.2%(14.6%-18.5%) | 93.3%(92.8%-93.7%) | 17.5%(15.4%-19.8%) | 92.6%(92.5%-92.8%) | 2.7(2.2 - 3.2) | 2.4(2.1-2.8) |
| **Stillbirth****(n=67)** | 18 | 26.9%(16.8%-39.1%) | 92.6%(92.1%-93.0%) | 1.8%(1.2%-2.7%) | 99.6%(99.5%-99.7%) | 4.6(2.7 - 7.9) | 3.6(2.4-0.1) |
| **Stillbirth <37wks****(n=53)** | 15 | 28.3%(16.8%-42.4%) | 92.6%(92.1%-93.0%) | 1.5%(1.0%-2.3%) | 99.7%(99.6%-99.7%) | 4.9(2.7 – 9.0) | 3.8(2.5-5.9) |
| **CAPO****(n=2695)** | 448 | 16.6%(15.2%-18.1%) | 94.8%(94.4%-95.2%) | 45.1%(42.2%-48.0%) | 81.6%(81.4%-81.9%) | 3.7(3.2 - 4.2) | 3.2(2.9-3.6) |
| **CAPO-S****(n= 1252)** | 210 | 16.8%(14.7%-19.0%) | 93.5%(93.0%-93.9%) | 21.1%(18.9%-23.6%) | 91.5%(91.3%-91.8%) | 2.9(2.4 - 3.4) | 2.6(2.2-3.0) |

PTB, preterm birth; SGA, small for gestational age; HDP, hypertensive disorders of pregnancy; CAPO, composite of adverse pregnancy outcomes; CAPO-S, composite of severe adverse pregnancy outcomes; PPV, positive predictive value; NPV, negative predictive value, NPV; OR, odds ratio, LR+, positive likelihood ratio.

**Table S2:** Sensitivity, specificity, positive and negative predictive values, odds ratio and positive likelihood ratio for adverse pregnancy outcomes and composite of adverse pregnancy outcomes (CAPO and CAPO-S) in women with risk ≥1 in 100 (n=2,215)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Adverse pregnancy outcomes** | **Number of adverse outcomes in risk ≥1 in 100 cohort** | **Sensitivity****(CI 95%)** | **Specificity****(CI 95%)** | **PPV****(CI 95%)** | **NPV****(CI 95%)** | **OR****(CI 95%)** | **LR+****(CI 95%)** |
| **HDP****(n=669)** | 369 | 55.2%(51.3%-59.0%) | 85.3%(84.7%-85.9%) | 16.7%(15.6%-17.8%) | 97.3%(97.0%-97.5%) | 7.1(6.1 - 8.4) | 3.7(3.5-4.1) |
| **HDP <37wks****(n=88)** | 66 | 75.0%(64.6%-83.6%) | 83.6%(82.6%-83.9%) | 3.0%(2.6%-3.4%) | 99.8%(99.7%-99.9%) | 15.3(9.4 - 24.9) | 4.6(4.0-5.2) |
| **PTB****(n=658)** | 207 | 31.5%(27.9%-35.2%) | 84.0%(83.4%-84.6%) | 9.3%(8.4%-10.4%) | 95.9%(95.7%-96.1%) | 2.4(2.0-2.9) | 2.0(1.7-2.2) |
| **PTB <34wks****(n=193)** | 64 | 33.2%(26.6%-40.3%) | 83.5%(82.8%-84.1%) | 2.9%(2.4%-3.5%) | 98.8%(98.7%-98.9%) | 2.5(1.9 - 3.4) | 2.0(1.6-2.5) |
| **SGA <10th****(n=1810)** | 518 | 28.6%(26.5%-30.8%) | 85.1%(84.5%-85.8%) | 23.4%(21.9%-24.9%) | 88.3%(87.9%-88.6%) | 2.3(2.1 - 2.6) | 1.9(1.8-2.1) |
| **SGA <5th****(n=1074)** | 337 | 31.4%(28.6%-34.3%) | 84.5%(83.9%-85.2%) | 15.2%(14.0%-16.5%) | 93.3%(93.0%-93.6%) | 2.5(2.2 - 2.9) | 2.0(1.8-2.2) |
| **Stillbirth****(n=67)** | 26 | 38.8%(27.1%-51.5%) | 83.3%(82.7%-84.0%) | 1.2%(0.9%-1.6%) | 99.6%(99.6%-99.7%) | 3.2(1.9 - 5.2) | 2.3(1.7-3.2) |
| **Stillbirth <37wks****(n=53)** | 21 | 39.6%(26.5%-54.0%) | 83.3%(82.7%-84.0%) | 0.9(0.7%-1.3%) | 99.7%(99.6%-99.8%) | 3.3(1.9 - 5.7) | 2.4(1.7-3.3) |
| **CAPO****(n=2695)** | 860 | 31.9(30.2%-33.7%) | 87.1%(86.5%-87.8%) | 38.8%(37.2%-40.6%) | 83.3%(82.9%-83.7%) | 3.2(2.9 - 3.5) | 2.5(2.3-2.7) |
| **CAPO-S****(n= 1252)** | 402 | 32.1%(29.5%-34.8%) | 84.8%(84.2%-85.5%) | 18.1%(16.8%-19.5%) | 92.3%(92.0%-92.5%) | 3.2(2.9 - 3.5) | 2.1(1.9-2.3) |

PTB, preterm birth; SGA, small for gestational age; HDP, hypertensive disorders of pregnancy; CAPO, composite of adverse pregnancy outcomes; CAPO-S, composite of severe adverse pregnancy outcomes; PPV, positive predictive value; NPV, negative predictive value, NPV; OR, odds ratio, LR+, positive likelihood ratio.

**Table S3:** Sensitivity, specificity, positive and negative predictive values, odds ratio and positive likelihood ratio for adverse pregnancy outcomes and composite of adverse pregnancy outcomes (CAPO and CAPO-S) in women with risk <1 in 100 (n=10,996).

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Adverse pregnancy outcomes** | **Number of adverse outcomes in risk <1 in 100 cohort** | **Sensitivity****(CI 95%)** | **Specificity****(CI 95%)** | **PPV****(CI 95%)** | **NPV****(CI 95%)** | **OR****(CI 95%)** | **LR+****(CI 95%)** |
| **HDP****(n=669)** | 300 | 44.8%(41.0%-48.7%) | 14.7%(14.1%-15.4%) | 2.7%(2.5%-3.0%) | 83.3%(82.2%-84.4%) | 0.1(0.1-0.2) | 0.5(0.5-0.6) |
| **HDP <37wks****(n=88)** | 22 | 25.0%(16.4%-35.4%) | 16.4%(15.8%-17.0%) | 0.2%(0.1%-0.3%) | 97.0%(96.6%-97.4%) | 0.1(0.4-0.1) | 0.3(0.2-0.4) |
| **PTB****(n=658)** | 451 | 68.5%(64.8%-72.1%) | 16.0%(15.4%-16.7%) | 4.1%(3.9%-4.3%) | 90.7%(89.6%-91.6%) | 0.4(0.4-0.5) | 0.8(0.8-0.9) |
| **PTB <34wks****(n=193)** | 129 | 66.8%(59.7%-73.4%) | 16.5%(15.9%-17.2%) | 1.2%(1.1%-1.3%) | 97.1%(96.5%-97.6%) | 0.4(0.3-0.5) | 0.8(0.7-0.9) |
| **SGA <10th****(n=1810)** | 1292 | 71.4%(69.2%-73.5%) | 14.9%(14.2%-15.6%) | 11.7%(11.4%-12.1%) | 76.6%(75.1%-78.1%) | 0.4(0.4-0.5) | 0.8(0.8-0.9) |
| **SGA <5th****(n=1074)** | 737 | 68.6%(65.8%-71.4%) | 15.5%(14.8%-16.1%) | 6.7%(6.5%-7.0%) | 84.8%(83.5%-86.0%) | 0.4(0.3-0.5) | 0.8(0.8-0.9) |
| **Stillbirth****(n=67)** | 41 | 61.2%(48.5%-72.9%) | 16.7%(16.0%-17.3%) | 0.4%(0.3%-0.5%) | 98.8%(98.4%-99.1%) | 0.3(0.2-0.5) | 0.7(0.6-0.9) |
| **Stillbirth <37wks****(n=53)** | 32 | 60.4%(46.0%-73.6%) | 16.7%(16.0%-17.3%) | 0.3%(0.2%-0.4%) | 99.1%(98.7%-99.3%) | 0.3(0.2-0.5) | 0.7(0.6-0.9) |
| **CAPO****(n=2695)** | 1835 | 68.1%(66.3%-69.9%) | 12.9%(12.3%-13.5%) | 16.7%(16.3%-17.1%) | 61.2%(59.4%-62.9%) | 0.3(0.3-0.3) | 0.8(0.8-0.8) |
| **CAPO-S****(n= 1252)** | 850 | 67.9%(65.2%-70.5%) | 15.2%(14.5%-15.8%) | 7.7%(7.5%-8.0%) | 81.9(80.5%-83.2%) | 0.4(0.3-0.4) | 0.8(0.8-0.8) |

PTB, preterm birth; SGA, small for gestational age; HDP, hypertensive disorders of pregnancy; CAPO, composite of adverse pregnancy outcomes; CAPO-S, composite of severe adverse pregnancy outcomes; PPV, positive predictive value; NPV, negative predictive value, NPV; OR, odds ratio, LR+, positive likelihood ratio.

**Table S4:** The positive predictive value (PPV) of various risk thresholds for composite adverse outcomes (CAPO)

|  |  |
| --- | --- |
| **Risk groups** | **PPV for CAPO (95% CI)** |
| **>1:10** | 70.7% (63.4%-77.1%) |
| **1:10 to 1:20** | 52.3% (45.4%-59.2%) |
| **1:20 to 1:30** | 38.9% (32.9%-45.2%) |
| **1:30 to 1:40** | 36.7% (30.5%-43.3%) |
| **1:40 to 1:50** | 32.8% (26.6%-39.7%) |
| **1:50 to 1:60** | 39.6% (34.0%-45.4%) |
| **1:60 to 1:70** | 36.7% (31.0%-42.9%) |
| **1:70 to 1:80** | 29.6% (24.4%-35.3%) |
| **1:80 to 1:90** | 32.0% (26.4%-38.3%) |
| **1:90 to 1:100** | 29.9% (24.2%-36.3%) |
| **<1:100** | 16.7% (16.3%-17.1%) |