**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%) |