**Suppl 2.** Classification properties for each 10% of model-predicted CBD stone probability

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Cut-off score(probability%) | Prevalence, n (%)  | CBD stone, n (%) | Sensitivity(%) | Specificity(%) | LHR+ | LHR- |
| Present 372 (59.9) | Absent 249 (40.1)  |
| ≥ -2.5 (≥ 10%) | 606 (97.6) | 371 (61.2) | 235 (38.8) | 99.7 | 5.6 | 1.06 | 0.05 |
| ≥ 2 (≥ 20%) | 573 (92.3) | 363 (63.4) | 210 (36.7) | 97.6 | 15.7 | 1.16 | 0.15 |
| ≥ 5.5 (≥ 30%) | 537 (86.5) | 356 (66.3) | 181 (33.7) | 95.7 | 27.3 | 1.32 | 0.16 |
| ≥ 7.5 (≥ 40%) | 465 (74.9) | 331 (71.2) | 134 (28.8) | 89.0 | 46.2 | 1.65 | 0.24 |
| ≥ 10 (≥ 50%) | 412 (66.3) | 311 (75.5) | 101 (24.5) | 83.6 | 59.4 | 2.06 | 0.28 |
| ≥ 12 (≥ 60%) | 352 (56.7) | 279 (79.3) | 73 (20.7) | 75.0 | 70.7 | 2.56 | 0.35 |
| ≥ 14.5 (≥ 70%) | 287 (46.2) | 239 (83.3) | 48 (16.7) | 64.2 | 80.7 | 3.33 | 0.44 |
| ≥ 17.5 (≥ 80%) | 178 (28.7) | 155 (87.1) | 23 (12.9) | 41.7 | 90.8 | 4.51 | 0.64 |
| ≥ 21 (≥ 90%) | 98 (15.8) | 91 (92.9) | 7 (7.1) | 24.5 | 97.2 | 8.70 | 0.78 |

CBD: common bile duct; LHR-: negative likelihood ratio; LHR+: positive likelihood ratio