**Appendix 2:** Diagnostic accuracy for STOP-Bang to exclude moderate and severe sleep apnea (AHI **≥**15) and sleep apnea (AHI **≥**5)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **STOP-Bang** | **Total** | **AHI ≥15** | | | | | | | | **AHI ≥5** | | | | | | | |
| **score** | **n =** | **TP (n)** | **FP (n)** | **TN (n)** | **FN (n)** | **Sensitivity (**probability≥ score) | **95 % CI** | **Specificity** (probability **<** score) | **95 % CI** | **TP** | **FP** | **TN** | **FN** | **Sensitivity (**probability≤ score) | **95 % CI** | **Specificity** (probability **≤** score) | **95 % CI** |
| 0 | 3 | 0 | 3 | 272 | 174 | 0.00 | 0.00-0.02 | 0.99 | 0.97-1.00 | 1 | 2 | 146 | 300 | 0.00 | 0.00-0.02 | 0.99 | 0.95-1.00 |
| 1 | 10 | 0 | 13 | 262 | 174 | 0.00 | 0.00-0.02 | 0.95 | 0.92-0.98 | 1 | 12 | 136 | 300 | 0.00 | 0.00-0.02 | 0.92 | 0.86-0.96 |
| 2 | 35 | 4 | 44 | 231 | 170 | 0.02 | 0.01-0.06 | 0.84 | 0.79-0.88 | 15 | 33 | 115 | 286 | 0.05 | 0.03-0.08 | 0.78 | 0.70-0.84 |
| 3 | 91 | 29 | 110 | 165 | 145 | 0.17 | 0.12-0.23 | 0.60 | 0.54-0.66 | 64 | 75 | 73 | 237 | 0.21 | 0.17-0.26 | 0.49 | 0.41-0.58 |
| 4 | 117 | 65 | 191 | 84 | 109 | 0.37 | 0.30-0.45 | 0.31 | 0.25-0.36 | 138 | 118 | 30 | 163 | 0.46 | 0.40-0.52 | 0.20 | 0.14-0.28 |
| 5 | 87 | 94 | 249 | 26 | 80 | 0.54 | 0.46-0.62 | 0.09 | 0.06-0.14 | 202 | 141 | 7 | 99 | 0.67 | 0.62-0.72 | 0.05 | 0.02-0.10 |
| 6 | 68 | 142 | 269 | 6 | 32 | 0.82 | 0.75-0.87 | 0.02 | 0.01-0.05 | 264 | 147 | 1 | 37 | 0.88 | 0.84-0.91 | 0.01 | 0.00-0.04 |
| 7 | 30 | 166 | 275 | 0 | 8 | 0.95 | 0.91-0.98 | 0.00 | 0.00-0.01 | 293 | 148 | 0 | 8 | 0.97 | 0.95-0.99 | 0.00 | 0.00-0.03 |
| 8 | 8 | 174 | 275 | 0 | 0 | 1.00 | 0.98-1.00 | 0.00 | 0.00-0.01 | 301 | 148 | 0 | 0 | 1.00 | 0.99-1.00 | 0.00 | 0.00-0.03 |
|  | | | | | | | | | | | | | | | | | |
| C-statistic | | 0.73 | | | | | | | | 0.74 | | | | | | | |

Abbreviations: AHI=apnea hypopnea index, TP=true positive, FP=false positive, TN=true negative, FN=false negative, CI=confidence interval

Sensitivity = TP/(TP+FN), Specificity = TN/(TN+FP). For example, STOP-Bang score 7 and AHI ≥15: sensitivity=166/(166+8)=0.95 and specificity=0/(0+275)=0.00