| **First Author, Year** | **PM Name****PM Setting** | **PSG AHI Cutpoint****PM AHI Cutpoint** | **Sensitivity (95% CI)** | **Specificity (95% CI)** | **AUROC (95% CI)** | **Pos LR (95% CI)** | **Neg LR (95% CI)** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Alvarez, 2009126 | Criticare 504Lab | AHI ≥10NR | Classical MSC\*: 69.2 (NR)Cross-ApEn\*: 83.7 (NR) | Classical MSC\*: 90.9 (NR)Cross-ApEn\*: 84.3 (NR) | Classical MSC\*: 0.781 (NR)Cross-ApEn\*: 0.840 (NR) | NR | NR |
| Nigro, 2010124 | ApneaLinkLab | RDI ≥5Multiple | PM RI>9: 80.4 (66.9, 91.4)PM AHI ≥5: 88.2 (76.1, 95.5) | PM RI>9: 100.0 (78.0, 100.0)PM AHI ≥5: 86.7 (59.5, 98.0) | PM RI>9: 0.900 (0.800, 0.960)PM AHI ≥5: 0.875 (0.770, 0.940) | PM RI>9:NRPM AHI ≥5: 6.60 (5.30, 8.30) | PM RI>9: 0.20 (NR)PM AHI ≥5: 0.14 (0.03, 0.60) |
| Nigro, 2010124 | ApneaLinkLab | RDI ≥10Multiple | PM RI>13: 91.7 (77.5, 98.2)PM AHI ≥10: 88.9 (73.9, 96.8) | PM RI>13: 93.3 (77.9, 99.0)PM AHI ≥10: 90.0 (73.4, 97.8) | PM RI>13: 0.920 (0.830, 0.970)PM AHI ≥10: 0.890 (0.790, 0.960) | PM RI>13: 13.70 (12.00, 15.80)PM AHI ≥10: 8.90 (7.50, 10.50) | PM RI>13: 0.09 (0.02, 0.50)PM AHI ≥10: 0.12 (0.03, 0.50) |
| Nigro, 2010124 | ApneaLinkLab | RDI ≥15Multiple | PM RI>16: 93.5 (78.5, 99.0)PM AHI ≥15: 93.5 (78.5, 99.0) | PM RI>16: 91.4 (76.9, 98.1)PM AHI ≥15: 91.4 (76.9, 98.1) | PM RI>16: 0.950 (0.870, 0.990)PM AHI ≥15: 0.925 (0.830, 0.975) | PM RI>16: 10.9 (9.50, 12.50)PM AHI ≥15: 10.9 (9.50, 12.50) | PM RI>16: 0.07 (0.01, 0.40)PM AHI ≥15: 0.07 (0.01, 0.40) |
| Nigro, 2010124 | ApneaLinkLab | RDI ≥30AHI ≥30 | 100.0 (80.5, 100.00) | 89.8 (77.8, 96.6) | NR | 9.80 (8.90, 10.80) | 0.00 (NR) |
| Nigro, 2013117 | ApneaLink Ox (Automatic Scoring)†Lab | RDI ≥5AHI ≥5 | O2 saturation≥3%: 90.7 (77.9, 97.4)O2 saturation≥4%: 76.7 (61.4, 88.2) | O2 saturation≥3%: 83.3 (51.6, 97.9)O2 saturation≥4%: 91.7 (61.5, 99.8) | O2 saturation≥3%: 0.870 (NR)O2 saturation≥4%: 0.840 (NR) | O2 saturation≥3%: 5.40 (NR)O2 saturation≥4%: 9.20 (NR) | O2 saturation≥3%: 0.11 (NR)O2 saturation≥4%: 0.25 (NR) |
| Nigro, 2013117 | ApneaLink Ox(Manual Scoring)Lab | RDI ≥5AHI ≥5 | 93.0 (80.9, 98.5) | 91.7 (61.5, 99.8) | 0.923 (NR) | 11.60 (NR) | 0.08 (NR) |
| Poupard, 2012120 | Nonin WristOxLab | AHI >5NR | 65.0 (NR) | 100.0 (NR) | NR | NR | NR |
| Poupard, 2012120 | Nonin WristOxLab | AHI >15NR | 58.0 (NR) | 100.0 (NR) | NR | NR | NR |
| Poupard, 2012120 | Nonin WristOxLab | AHI >30NR | 59.0 (NR) | 100.0 (NR) | NR | NR | NR |
| Yadollahi, 2010123 | ASADǂLab | AHI ≥5AHI ≥8.6 | 74.3 (NR) | 82.4 (NR) | 0.870 (NR) | NR | NR |
| Yadollahi, 2010123 | ASADǂLab | AHI ≥10AHI ≥13 | 82.8 (NR) | 91.1 (NR) | 0.950 (NR) | NR | NR |
| Yadollahi, 2010123 | ASADǂLab | AHI ≥15AHI ≥18.5 | 84.6 (NR) | 96.0 (NR) | 0.960 (NR) | NR | NR |
| Yadollahi, 2010123 | ASADǂLab | AHI ≥20AHI ≥23 | 91.6 (NR) | 97.8 (NR) | 0.990 (NR) | NR | NR |

\* Oximetry signals were processed by means of a classical frequency analysis based on the magnitude squared coherence (Classical MSC) and a nonlinear analysis based on the means of cross-approximate entropy, a recently developed measure of synchrony (Cross-ApEn).

ǂ A hypopnea was defined in two different ways: decrease in airflow≥30% of baseline for at least 10 seconds plus oxygen desaturation (1) ≥3% or (2) ≥4%.

ǂ The acoustical sleep apnea diagnosis (ASAD) system included an omnidirectional microphone (Sony ECM-77B) and Masimo pulse oximeter.

**Abbreviations:** AHI=apnea-hypopnea index; ASAD=acoustical sleep apnea diagnosis; AUROC=area under receiver operating characteristic curve; Cross-ApEn=cross-approximate entropy; LR=likelihood ratio; MSC=magnitude squared coherence; Neg=negative; NR=not reported; PM=portable monitor; Pos=positive; PSG=polysomnography; RDI=respiratory disturbance index; RI=risk indicator.