| **First Author, Year** **Country** | **PM Name****PM Type (Number of Channels)****PM Channels\*** | **PM Setting****PM Timing** | **N Enrolled (N Analyzed)** | **Mean (SD) AHI [Range]** | **Mean (SD) ESS [Range]** | **Mean Age, Yr** | **% Female** | **Mean BMI, kg/m2** | **Participants** | **% With OSA According to Specific PSG AHI Cutpoints** | **Quality** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Barak-Shinar, 2013115Israel | Morpheus OxIV (3)1, 6, 14 | Sleep labSimultaneous | 140 (140) | 16 (17.4) [NR] | 10.2 (NR) [NR] | 53 | 44 | 31 | Patients referred to sleep lab due to suspected risk of OSA | AHI ≥5: 72AHI ≥15: 39 | Fair |
| Choi, 2010125Korea | Watch-PAT 100IV (4)1, 6, 15, 16 | HospitalDifferent time | 27 (25) | 32 (28.9) [NR] | NR | 41 | 16 | 26 | Adult subjects with suspected OSA | AHI ≥5: 76 AHI ≥15: 68 AHI ≥30: 44 | Fair |
| Garg, 2014127United States | Watch-PAT 200IV (6)1, 6, 7, 11, 12, 15 | Home and sleep labSimultaneous and different time | 75 (75) | 30 (35.0) [NR] | 12 (5.5) [NR] | 45 | 76 | NR | Patients recruited from primary care and sleep clinics who were considered to be high risk for OSA as determined by Berlin questionnaire | AHI >5: 71 | Good |
| Gurubhagavatula, 2013104United States | AutoSetIV (4)1†, 8, 9, 10 | HomeDifferent time | 250 (250)ǂ  | 23 (22.9) [NR] | NR | 53 | 20 | 32 | Outpatients with hypertension recruited from internal medical practices at the VA and a university hypertension clinic | Any OSA (AHI ≥5): 80Mild OSA (AHI=5-14.9): 34Moderate OSA (AHI=15-29.9): 22Severe OSA (AHI ≥30): 25Any OSAS (AHI ≥5 and ESS>10): 25s-OSAS (AHI ≥30 and ESS>10): 8 | Fair |
| Masa, 2011119;Masa, 2013291Spain | BreastSC20IV (5)1, 8–11 | HomeDifferent time | 366 (348) | 38 (NR) [NR] | 12 (5.0) [NR] | 49 | 24 | 31 | Patients referred for pulmonary consultation due to suspected OSA (snoring, observed apneas, ESS>10, or non-refreshing sleep) | AHI ≥5: 80AHI ≥15: 22 | Good |

\* 1=oxygen saturation from pulse oximetry; 2=EEG; 3=electro-oculogram; 4=electromyogram; 5=electrocardiogram; 6=heart rate; 7=snoring; 8=airflow; 9=chest wall motion; 10=abdomen motion; 11=body position; 12=leg movements; 13=thermal flow; 14=photoplethlysmograph; 15=peripheral arterial tone; 16=wrist activity

† Oximetry was worn according to manufacturer’s directions but was not used in automated scoring because desaturation was not required to score apneas or hypopneas.

ǂ Of the 250 participants, 242 completed the ESS, 198 completed a PSG, and 192 completed a PM evaluation; missing data were imputed prior to analysis.

**Abbreviations:** AHI=apnea-hypopnea index; BMI=body mass index; ESS=Epworth Sleepiness Scale; kg=kilograms; m=meters; N=sample size; OSA=obstructive sleep apnea; PM=portable monitor; PSG=polysomnography; SD=standard deviation; yr=years.