

Table S1: ICD-9 Codes Used to Identify Diagnoses from Claims

Condition	ICD-9 Codes
Arthritis	714.xx, 715.xx, 716.xx, 720.0x, 721.0x, 721.2x, 721.3x, 721.90
Dementia	331.0, 331.11, 331.19, 331.2, 331.7, 290.0, 290.1x, 290.2x, 290.3, 290.4x, 797, 294.1x, 294.x2, 294.8
Depression	296.2x, 296.3x, 298.0x, 300.4x, 309.1, 311.xx
Diabetes	249.xx, 250.xx, 357.2, 362.0x, 366.41
Gastroesophageal reflux disease	530.81
Hyperlipidemia	272.0x, 272.1x, 272.2x, 272.3x, 272.4x
Malignancy	140.xx-208.xx
Renal disease	016.0x, 095.4, 189.0, 189.9, 223.0, 236.91, 249.4x, 250.4x, 271.4, 274.1, 283.11, 403.01, 403.11, 403.91, 404.02, 404.03, 404.12, 404.13, 404.92, 404.93, 440.1, 442.1, 572.4, 580.xx, 581.xx, 582.xx, 583.xx, 584.xx, 585.xx, 586, 587, 588.xx, 591, 753.12, 753.13, 753.14, 753.15, 753.16, 753.17, 753.19, 753.2x, 794.4

Figure S1a: Diagnostic Testing Pre-authorization Form

Apnea Events

The patient has observed apnea during sleep

- Yes
- No
- Unknown

Signs and Symptoms

- Excessive daytime sleepiness evidenced by:
 - Epworth Sleepiness Scale (ESS) > 10 or,
 - Inappropriate daytime napping (during conversation, driving or eating) or,
 - Sleepiness that interferes with daily activity
- Habitual snoring or gasping/choking episodes associated with awakenings
- Treatment resistant hypertension
- Soft tissue abnormalities or neuromuscular diseases involving the craniofacial area or upper airway
- Obesity
 - BMI > 30.00
 - Patients' BMI:

 - Member height (ft):

 - Member height (in):

 - Member weight (lbs):

Comorbid Conditions

- Stroke (CVA) within the last 30 days
- Transient Ischemic Attack (TIA)
- Coronary Artery Disease (CAD)
- Sustained supraventricular tachycardiac arrhythmias

- Sustained supraventricular bradycardiac arrhythmias

Contraindications for Home Sleep Testing

- The patient is 18 years old or younger
- Moderate or severe chronic obstructive pulmonary disease (COPD) – Forced expiratory volume in 1 second/Forced vital capacity (FEV1/FVC) less than or equal to 0.7 and FEV1 less than 80% of predicted
- Moderate or severe congestive heart failure (CHF) – New York Heart Association (NYHA) class III or IV
- CHF with history of ventricular fibrillation or sustained ventricular tachycardia in a patient who does not have an implanted defibrillator
- Cognitive impairment (inability to follow simple instructions) resulting in inability to apply the home sleep testing equipment when another individual is not available to assist with this task
- Physical impairment resulting in inability to apply the home sleep testing equipment when another individual is not available to assist with this task
- Oxygen dependent for any reason
- Stroke (CVA) within the last 30 days
- Current use of opiate narcotics
- Body Mass Index (BMI) is > 33
- The elevated serum bicarbonate level >28 mmol/L
- Established diagnosis of obesity hypoventilation syndrome

Figure S1b: Initial APAP/CPAP and Supplies Pre-Authorization Form

Please provide the AHI or RDI, whichever is higher, from the most recent PSG, HST, or pre-split portion of a split night

Signs and symptoms – non-pediatric

- Excessive daytime sleepiness evidenced by
Epworth Sleepiness Scale (ESS) > 10 or,
Inappropriate daytime napping (during conversation, driving or eating) or,
- Impaired cognition
- Mood disorders

- Insomnia
- Documented hypertension
- Ischemic heart disease
- History of stroke
- Cardiac arrhythmias
- Pulmonary hypertension

Is this request for PAP therapy replacing the titration study in a facility?

- Yes
- No
- Unknown