

#### **Drug Coverage Policy**

Effective Date	3	3/1/2025
<b>Coverage Policy</b>	Number	IP0075
Policy Title	.Armodafinil,	Modafini

# Wakefulness-Promoting Agents – Armodafinil, Modafinil

- Nuvigil® (armodafinil tablets Cephalon, generic)
- Provigil® (modafinil tablets Cephalon, generic)

#### INSTRUCTIONS FOR USE

The following Coverage Policy applies to health benefit plans administered by Cigna Companies. Certain Cigna Companies and/or lines of business only provide utilization review services to clients and do not make coverage determinations. References to standard benefit plan language and coverage determinations do not apply to those clients. Coverage Policies are intended to provide quidance in interpreting certain standard benefit plans administered by Cigna Companies. Please note, the terms of a customer's particular benefit plan document [Group Service Agreement, Evidence of Coverage, Certificate of Coverage, Summary Plan Description (SPD) or similar plan document] may differ significantly from the standard benefit plans upon which these Coverage Policies are based. For example, a customer's benefit plan document may contain a specific exclusion related to a topic addressed in a Coverage Policy. In the event of a conflict, a customer's benefit plan document always supersedes the information in the Coverage Policies. In the absence of a controlling federal or state coverage mandate, benefits are ultimately determined by the terms of the applicable benefit plan document. Coverage determinations in each specific instance require consideration of 1) the terms of the applicable benefit plan document in effect on the date of service; 2) any applicable laws/regulations; 3) any relevant collateral source materials including Coverage Policies and; 4) the specific facts of the particular situation. Each coverage request should be reviewed on its own merits. Medical directors are expected to exercise clinical judgment and have discretion in making individual coverage determinations. Coverage Policies relate exclusively to the administration of health benefit plans. Coverage Policies are not recommendations for treatment and should never be used as treatment guidelines. In certain markets, delegated vendor quidelines may be used to support medical necessity and other coverage determinations.

#### Cigna Healthcare Coverage Policy

#### OVFRVTFW

Armodafinil and modafinil, agents with wake-promoting actions that are similar to sympathomimetic agents (e.g., amphetamine and methylphenidate), are indicated to improve wakefulness in adults with **excessive sleepiness** associated with the following conditions:<sup>1,2</sup>

- Narcolepsy.
- Obstructive sleep apnea/hypoapnea syndrome (approved as adjunctive therapy).
- Shift work sleep disorder.

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Armodafinil and modafinil are Schedule IV controlled substances.<sup>1,2</sup> Review of the medical literature notes many other uses of modafinil that are considered off-label or investigational. While armodafinil has not been studied off-label to the same extent as modafinil, it is expected that armodafinil will have similar clinical efficacy for these uses. Additionally, in the pivotal trials for shift work sleep disorder, enrolled patients were required to work a minimum of five night shifts per month.

Two specialized tests, which can be performed in a sleep disorders clinic, are required to establish a diagnosis of narcolepsy.<sup>3</sup> Polysomnogram (PSG) is an overnight recording of brain and muscle activity, breathing, and eye movements. The multiple sleep latency test assesses daytime sleepiness by measuring how quickly a person falls asleep and whether they enter rapid eye movement (REM) sleep. On the day after PSG, the patient is asked to take five short naps separated by two hours over the course of a day. If an individual falls asleep in < 8 minutes on average over the five naps, this indicates excessive daytime sleepiness. However, patients with narcolepsy also have an abnormally quick start to REM sleep. If REM sleep happens within 15 minutes at least two times out of the five naps and the sleep study the night before, this is likely an abnormality caused by narcolepsy.

#### Guidelines

Pertinent medical guidelines related to modafinil and armodafinil are summarized below.

#### Narcolepsy and Cataplexy

The American Academy of Sleep Medicine (AASM) practice parameters for the treatment of central disorders of hypersomnolence were updated in 2021.<sup>4,5</sup>

- Modafinil, Wakix<sup>®</sup> (pitolisant tablets), Xyrem<sup>®</sup> (sodium oxybate oral solution), and Sunosi<sup>™</sup> (solriamfetol tablets) are recommended as effective treatments for daytime sleepiness due to narcolepsy and reducing disease severity in adults (Strong Recommendation for each).
- Wakix and Xyrem have also demonstrated efficacy for the treatment of cataplexy in patients with narcolepsy (Strong Recommendation for each).
- Xyrem and armodafinil have Conditional Recommendations for the treatment of narcolepsy, showing efficacy for daytime sleepiness due to narcolepsy and reducing disease severity.
- Dextroamphetamine has a Conditional Recommendation for the treatment of narcolepsy, showing efficacy for excessive daytime sleepiness and cataplexy.
- Methylphenidate has a Conditional Recommendation for the treatment of narcolepsy, showing efficacy in reducing disease severity.
- There was insufficient and inconclusive evidence to make recommendations for l-carnitine, scheduled naps, selegiline, triazolam, selective serotonin reuptake inhibitors (SSRIs), and serotonin-norepinephrine reuptake inhibitors (SNRIs).
- Modafinil and Xyrem have Conditional Recommendations for the treatment of narcolepsy in pediatric patients.
- A Strong Recommendation should be followed by clinicians under most circumstances. A
  Conditional Recommendation requires that the clinician use clinical knowledge and experience
  and strongly consider the individual patient's values and preferences to determine the best
  course of action.

Excessive Daytime Sleepiness Associated with Obstructive Sleep Apnea/Hypoapnea Syndrome

- According to the AASM guideline on medical therapy for obstructive sleep apnea (OSA) [2006], continuous positive airway pressure (CPAP) is the most uniformly effective therapy, and, to date, this is the only intervention for OSA shown to have favorable impacts on both cardiovascular and neurobehavioral morbidities.<sup>6</sup>
- Modafinil, in patients compliant with nasal CPAP, consistently improved subjective and objective sleepiness, quality of life, and vigilance compared with placebo.

Adjunctive/Augmentation Treatment for Major Depressive Disorder

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- According to the American Psychiatric Association (APA) practice guideline for the treatment of patients with major depressive disorder (2010), modafinil (or methylphenidate) are potential treatments for sedation associated with antidepressant medications.<sup>7</sup>
- The APA guidelines state that modafinil has shown benefit when combined with an SSRI, related to specific effects on residual symptoms such as fatigue and hypersomnolence.
- The guidelines note that there is no clear guidance regarding the length of time modafinil should be co-administered.
- While armodafinil has not been studied for this use, it is considered to be interchangeable with modafinil for this condition.

#### Excessive Daytime Sleepiness Associated with Myotonic Dystrophy

- Practice parameters from the AASM, last updated in 2021, suggest that clinicians use modafinil
  for the treatment of hypersomnia secondary to myotonic dystrophy in adults (Conditional
  Recommendation).<sup>4,5</sup>
- While armodafinil has not been studied for this use, it is considered to be interchangeable with modafinil for this condition.

#### Excessive Daytime Sleepiness Associated with Parkinson's Disease

- Practice parameters from the AASM (2021) suggest that clinicians use modafinil for the treatment of hypersomnia secondary to Parkinson's disease in adults (Conditional Recommendation).<sup>4,5</sup>
- While armodafinil has not been studied for this use, it is considered to be interchangeable with modafinil for this condition.

#### Fatigue Associated with Multiple Sclerosis

- Practice parameters from the AASM (2021) suggest that clinicians use modafinil for the treatment of hypersomnia secondary to multiple sclerosis in adults (Conditional Recommendation).<sup>4,5</sup>
- While armodafinil has not been studied for this use, expert opinion considers it to be interchangeable with modafinil for this condition.

#### Idiopathic Hypersomnia

Idiopathic hypersomnia, a condition similar to narcolepsy, is characterized by constant or recurrent daytime sleepiness with no other cause of sleepiness, prolonged nocturnal sleep, difficulty awakening with sleep drunkenness, and long unrefreshing naps with no history of cataplexy.<sup>8-10</sup> The AASM practice parameters for the treatment of central disorders of hypersomnolence (2021) include recommendations for the treatment of idiopathic hypersomnia.<sup>4,5</sup>

- Only modafinil has a Strong Recommendation for use.
- Clarithromycin, methylphenidate, Wakix, and Xyrem have Conditional Recommendations for the treatment of idiopathic hypersomnia in adults.

#### **Medical Necessity Criteria**

<u>**Documentation**</u>: Documentation is required where noted in the criteria. Documentation may include, but not limited to, chart notes, laboratory tests, claims records, and/or other information.

Modafinil (brand and generic) and armodafinil (brand and generic) are considered medically necessary when ONE of the following is met:

#### **FDA-Approved Indications**

**1. Excessive Daytime Sleepiness Associated with Narcolepsy.** Approve for 1 year if the patient meets the following (A, B, C, D, and E):

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- A) Patient is  $\geq$  18 years of age; AND
- **B)** Documentation that the patient has been evaluated using polysomnography and a multiple sleep latency test; AND
- **C)** Documented diagnosis of narcolepsy has been confirmed; AND
- **D)** The medication is prescribed by or in consultation with a sleep specialist physician or a neurologist; AND
- E) Preferred product criteria is met for the products as listed in the below tables
- **2.** Excessive Daytime Sleepiness Associated with Obstructive Sleep Apnea/Hypoapnea Syndrome. Approve for 1 year if the patient meets the following (A, B, and C):
  - **A)** Patient is ≥ 18 years of age; AND
  - **B)** Patient meets one of the following (i or ii):
    - i. Armodafinil/modafinil will be used in conjunction with continuous positive airway pressure therapy; OR
    - **ii.** Documentation that the patient is unable to initiate or tolerate continuous positive airway pressure therapy; AND
  - C) Preferred product criteria is met for the products as listed in the below tables
- **3. Excessive Sleepiness Associated with Shift Work Sleep Disorder.** Approve for 1 year if the patient meets the following (A, B, and C):
  - **A)** Patient is ≥ 18 years of age; AND
  - B) Documentation that the patient works at least five overnight shifts per month; AND
  - C) Preferred product criteria is met for the products as listed in the below tables

#### Other Uses with Supportive Evidence

- **4. Adjunctive/Augmentation Treatment for Depression in Adults.** Approve for 1 year if the patient meets the following (A, B, and C):
  - A) Patient is  $\geq$  18 years of age; AND
  - **B)** Documentation that the patient is concurrently receiving other medication therapy for depression; AND
    - <u>Note</u>: Examples of other medications for the treatment of depression include selective serotonin reuptake inhibitors (SSRIs) and serotonin norepinephrine reuptake inhibitors (SNRIs).
  - C) Preferred product criteria is met for the products as listed in the below tables
- **5. Excessive Daytime Sleepiness Associated with Myotonic Dystrophy.** Approve for 1 year if the patient meets both of the following (A <u>and</u> B):
  - **A)** Patient is ≥ 18 years of age; AND
  - **B)** Preferred product criteria is met for the products as listed in the below tables
- **6. Excessive Daytime Sleepiness Associated with Parkinson's Disease.** Approve for 1 year if the patient meets both of the following (A and B):
  - A) Patient is  $\geq$  18 years of age; AND
  - **B)** Preferred product criteria is met for the products as listed in the below tables
- **7. Fatigue Associated with Multiple Sclerosis.** Approve for 1 year if the patient meets both of the following (A and B):
  - A) Patient is  $\geq$  18 years of age; AND
  - B) Preferred product criteria is met for the products as listed in the below tables
- **8. Idiopathic Hypersomnia.** Approve for 1 year if the patient meets the following (A, B, and C):
  - **A)** Patient is  $\geq$  18 years of age; AND

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- **B)** Documented diagnosis is confirmed by a sleep specialist physician or at an institution that specializes in sleep disorders (i.e., sleep center); AND
- C) Preferred product criteria is met for the products as listed in the below tables

**Employer Plans:** 

Product	Criteria
Nuvigil (armodafinil)	The patient has tried the bioequivalent generic product, <a href="mailto:armodafinil">armodafinil</a> , AND cannot take due to a formulation difference in the inactive ingredient(s) [e.g., difference in dyes, fillers, preservatives] between the Brand and the bioequivalent generic product which would result, per the prescriber, in a significant allergy or serious adverse reaction.
Provigil (modafinil)	The patient has tried the bioequivalent generic product, <b>modafinil</b> , AND cannot take due to a formulation difference in the inactive ingredient(s) [e.g., difference in dyes, fillers, preservatives] between the Brand and the bioequivalent generic product which would result, per the prescriber, in a significant allergy or serious adverse reaction.

**Individual and Family Plan:** 

Product	Criteria	
Nuvigil (armodafinil)	The patient has tried the bioequivalent generic product, <a href="mailto:armodafinil">armodafinil</a> , AND cannot take due to a formulation difference in the inactive ingredient(s) [e.g., difference in dyes, fillers, preservatives] between the Brand and the bioequivalent generic product which would result, per the prescriber, in a significant allergy or serious adverse reaction.	
Provigil (modafinil)	The patient has tried the bioequivalent generic product, <b>modafinil</b> , AND cannot take due to a formulation difference in the inactive ingredient(s) [e.g., difference in dyes, fillers, preservatives] between the Brand and the bioequivalent generic product which would result, per the prescriber, in a significant allergy or serious adverse reaction.	

When coverage is available and medically necessary, the dosage, frequency, duration of therapy, and site of care should be reasonable, clinically appropriate, and supported by evidence-based literature and adjusted based upon severity, alternative available treatments, and previous response to therapy.

Receipt of sample product does not satisfy any criteria requirements for coverage.

#### **Conditions Not Covered**

Any other use is considered experimental, investigational, or unproven, including the following (this list may not be all inclusive; criteria will be updated as new published data are available):

1. Attention Deficit Hyperactivity Disorder (ADHD). The American Academy of Pediatrics clinical practice guidelines for the treatment of ADHD in children and adolescents (2011 and

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2019) do not address the use of modafinil/armodafinil.<sup>11,12</sup> These guidelines note that with the greater availability of approved medications for children/adolescents with ADHD, it has become increasingly unlikely that clinicians need to consider the off-label use of other medications. Many options exist for the treatment of ADHD in adults (e.g., methylphenidate, dextroamphetamine) and further large scale trials that demonstrate benefit for modafinil in adults with ADHD are needed.

- **2. Bipolar Disorder, including Bipolar Depression.** Limited data (one small study [n = 85] and case reports [n = 2]) are available that describe the use of modafinil for bipolar disorder and bipolar depression. In one study (n = 257), armodafinil was not more effective than placebo in treating bipolar depression. Only limited data support modafinil for this condition and more data are needed.
- **3. Cancer-Related Fatigue.** The National Comprehensive Cancer Network guidelines on cancer-related fatigue (version 2.2024 October 30, 2023) no longer consider modafinil or armodafinil to be effective for the treatment of cancer-related fatigue and recommend against its use.<sup>17</sup>
- **4. Chronic Fatigue Syndrome.** Limited data characterize modafinil therapy in those with chronic fatigue syndrome. In a randomized, double-blind, crossover study in 14 patients with chronic fatigue syndrome, use of modafinil for 20 days had minimal effects on cognitive function and no significant effects on fatigue, health-related quality of life, or mood. More data are required to assess efficacy in this patient population.
- **5. Excessive Daytime Sleepiness Associated with Primary Insomnia.** One randomized, placebo-controlled study found that neither combination therapy with modafinil and cognitive behavioral therapy nor modafinil as monotherapy significantly decreased daytime sleepiness associated with primary insomnia.<sup>20</sup>
- **6. Enhancement of Performance in Situations of Induced Sleep Deprivation.** Studies are needed to define the role/appropriateness of modafinil in these situations for the general population (as opposed to military personnel, etc.). Studies have shown that modafinil may enhance performance and sustain alertness in individuals subjected to situations that deprive sleep (e.g., military aviation, emergency physicians). Further studies are needed before its use in the general population in these types of situations can be promoted.
- **7. Fibromyalgia.** Limited data are available regarding the use of modafinil in fibromyalgia with most of the data being observational.<sup>25-27</sup> Larger-sized, randomized, placebo-controlled trials are required to better assess and validate the efficacy of modafinil in patients with fibromyalgia before it can be recommended as a therapeutic modality.
- 8. Hypersomnia, Fatigue or Sleepiness Due to Other Conditions (<u>not</u> Idiopathic Hypersomnia, see Other Uses with Supportive Evidence). More data are needed in specific conditions to define the role of modafinil and armodafinil.
- **9. Post-Stroke Sleep-Wake Disorders or Sleep Disorders.** Sleep-wake disorders occur in approximately 20% to 40% of patients who have experienced a stroke, which includes hypersomnia and excessive daytime sleepiness. Very limited data (i.e., case reports and one small study) have explored the use of modafinil in these patients to improve alertness. More data are needed to determine effectiveness in this condition.

#### References

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#### **Revision Details**

Type of Revision	Summary of Changes	Date
Annual Revision	<b>Updated</b> title from 'Armodafinil/Modafinil' to 'Wakefulness-Promoting Agents – Armodafinil, Modafinil'	10/15/2024
	Excessive Daytime Sleepiness Associated with Narcolepsy. Updated 'Treatment of Excessive Daytime Sleepiness Associated with Narcolepsy (Type 1 or 2)' TO 'Excessive Daytime Sleepiness Associated with Narcolepsy.' Removed 'Daily periods of irrepressible need to sleep or lapses into sleep during waking hours, occurring for at least three months' Updated 'Documentation of ONE of the following: (i) Diagnosis of narcolepsy type 1 and ONE of the following: (a) Mean Sleep Latency Test (MSLT) performed according to standard techniques, showing a mean sleep latency of less than or equal to 8 minutes and two or more sleep-onset rapid eye movement periods (SOREMPs) following a nocturnal polysomnogram (PSG) that rules out other causes of excessive daytime sleepiness, (b) A SOREMP (within 15 minutes of sleep onset) on a nocturnal PSG; (ii) Diagnosis of narcolepsy type 2 and Mean Sleep Latency Test (MSLT) performed according to standard techniques, showing a mean sleep latency of less than or equal to 8 minutes and two or more sleep-onset rapid eye movement periods (SOREMPs) following a nocturnal polysomnogram (PSG) that rules out other causes of excessive	

daytime sleepiness. A SOREMP (within 15 minutes of sleep onset) on a nocturnal PSG may replace one of the SOREMPs on the MSLT' TO 'Patient has been evaluated using polysomnography and a multiple sleep latency test'

**Removed** 'The hypersomnolence and/or MSLT findings are not better explained by other causes such as insufficient sleep, delayed sleep phase disorder, or the effect of medication or substances or their withdrawal'

**Removed** pulmonologist from 'Medication is prescribed by, or in consultation with' bullet **Added** 'Diagnosis of narcolepsy has been confirmed, according to the prescriber'

## Excessive Daytime Sleepiness Associated with Obstructive Sleep Apnea/Hypoapnea Syndrome.

**Removed** 'Daily periods of irrepressible need to sleep or lapses into sleep during waking hours, occurring for at least three months'

Removed 'Documentation of diagnosis of Obstructive Sleep Apnea (OSA)/Hypoapnea Syndrome (OSAHS) is confirmed by sleep study' Removed 'The hypersomnolence and/or sleep study findings are not better explained by other causes such as insufficient sleep, delayed sleep phase disorder, or the effect of medication or substances or their withdrawal'

**Removed** pulmonologist from 'Medication is prescribed by, or in consultation with' bullet **Removed** 'Documentation of inadequate response to at least 1 month of non-pharmacologic treatment for OSA (for example, continuous positive airway pressure [CPAP])'

**Removed** 'Armodafinil (Nuvigil) or modafinil (Provigil) will be used in combination with non-pharmacologic treatment for OSA/OSAHS, unless contraindicated or intolerant'

**Added** 'Patient meets one of the following (i or ii): (i)Armodafinil/modafinil will be used in conjunction with continuous positive airway pressure therapy; OR (ii) Patient is unable to initiate or tolerate continuous positive airway pressure therapy;"

## **Excessive Sleepiness Associated with Shift Work Sleep Disorder.**

**Removed** 'Documentation of insomnia and/or excessive sleepiness, accompanied by a reduction of total sleep time, which is associated with a recurring work schedule that overlaps the usual time for sleep'

**Removed** 'Documentation of sleep log, completed on work and free days, demonstrating a disturbed sleep and wake pattern'

**Removed** 'Documentation that the sleep and/or wake disturbance cannot be better explained by another cause (for example, concurrent sleep disorder, medical or neurological disorder, mental disorder, medication use, poor sleep hygiene, substance use disorder)'

**Removed** pulmonologist from 'Medication is prescribed by, or in consultation with' bullet

### Adjunctive/Augmentation Treatment for Depression in Adults.

**Removed** 'Medication is prescribed by, or in consultation with, a neurologist or psychiatrist"

## **Excessive Daytime Sleepiness Associated with Myotonic Dystrophy.**

**Removed** 'Daily periods of irrepressible need to sleep or daytime lapses into sleep occurring for at least three months'

**Removed** 'Medication is prescribed by, or in consultation with, a neurologist, pulmonologist, or sleep specialist'

### **Excessive Daytime Sleepiness Associated with Parkinson's Disease.**

**Removed** pulmonologist from 'Medication is prescribed by, or in consultation with' bullet

## **Fatigue Associated with Multiple Sclerosis. Removed** pulmonologist from 'Medication is prescribed by, or in consultation with' bullet

#### Idiopathic Hypersomnia.

**Removed** pulmonologist from 'Medication is prescribed by, or in consultation with' bullet **Removed** 'Daily periods of irrepressible need to sleep or lapses into sleep during waking hours, occurring for at least three months'

**Removed** 'Documentation of Multiple Sleep Latency Test (MSLT) performed according to standard techniques demonstrating an average sleep latency of less than or equal to 8 minutes with a total of less than 2 sleep onset rapid eye movement periods (SOREMPs)'

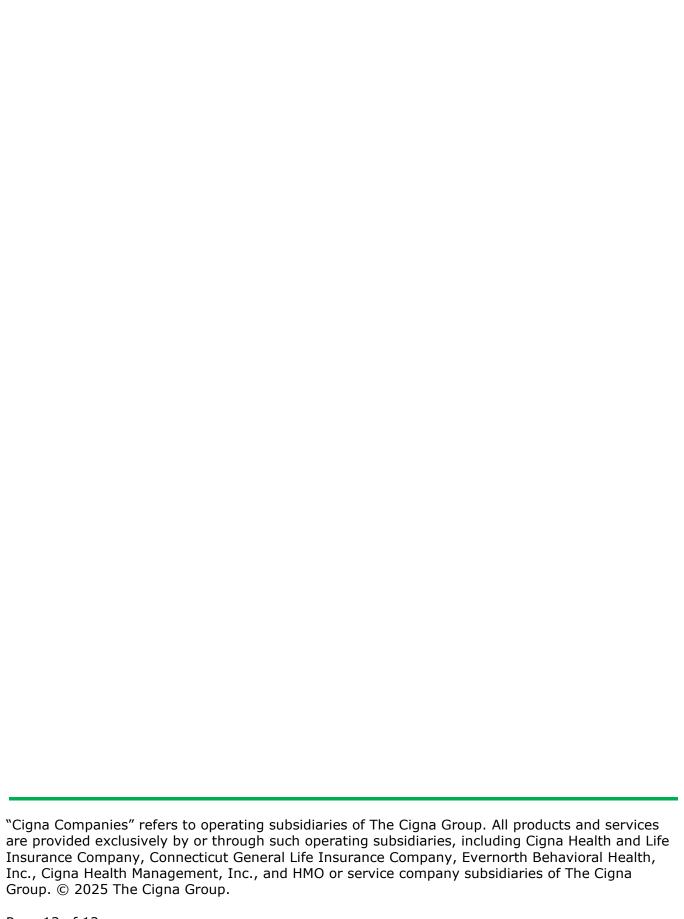
**Removed** 'Documented absence of cataplexy' **Removed** 'The hypersomnolence and/or MSLT findings are not better explained by other causes such as insufficient sleep, delayed sleep phase disorder, or the effect of medication or substances or their withdrawal'

Selected Revision **Added "Documentation:** Documentation is 3/1/2025 required where noted in the criteria. Documentation may include, but not limited to, chart notes, laboratory tests, claims records, and/or other information." **Excessive Daytime Sleepiness Associated with** Narcolepsy. **Updated** criteria **from** "Patient has been evaluated using polysomnography and a multiple sleep latency test" **to** "Documentation that the patient has been evaluated using polysomnography and a multiple sleep latency test." **Updated** criteria **from** "Diagnosis of narcolepsy has been confirmed, according to the prescriber" to "Documented diagnosis of narcolepsy has been confirmed." **Excessive Daytime Sleepiness Associated with Obstructive Sleep Apnea/Hypoapnea** Syndrome. **Updated** criteria **from** "Patient is unable to initiate or tolerate continuous positive airway pressure therapy" to "Documentation that the patient is unable to initiate or tolerate continuous positive airway pressure therapy." **Excessive Sleepiness Associated with Shift** Work Sleep Disorder. **Updated** criteria **from** "Patient works at least five overnight shifts per month" to "Documentation that the patient works at least five overnight shifts per month." Adjunctive/Augmentation Treatment for **Depression in Adults. Updated** criteria **from** "Patient is concurrently receiving other medication therapy for depression" **to** "Documentation that the patient is concurrently receiving other medication therapy for depression." Idiopathic Hypersomnia. **Updated** criteria **from** "The diagnosis is confirmed by a sleep specialist physician or at an institution that specializes in sleep disorders (i.e., sleep center)" to "Documented diagnosis is confirmed by a sleep specialist physician or at an institution that

specializes in sleep disorders (i.e., sleep center)."

The policy effective date is in force until updated or retired.

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