Modafinil (Provigil®)
Armodafinil (Nuvigil®)
Effective 06/01/2021

Plan	☒ MassHealth ☒Commercial/Exchange	**Program Type**	☒ Prior Authorization ☐ Quantity Limit ☐ Step Therapy
Benefit	☒ Pharmacy Benefit ☐ Medical Benefit (NLX)		
Specialty Limitations	N/A		
Contact Information	**Specialty Medications**		
	All Plans	Phone: 866-814-5506	Fax: 866-249-6155
	Non-Specialty Medications		
	MassHealth	Phone: 877-433-7643	Fax: 866-255-7569
	Commercial	Phone: 800-294-5979	Fax: 888-836-0730
	Exchange	Phone: 855-582-2022	Fax: 855-245-2134
	Medical Specialty Medications (NLX)		
	All Plans	Phone: 844-345-2803	Fax: 844-851-0882
Exceptions	N/A		

Overview

Modafinil is a central nervous system stimulant that has been shown to significantly increase dopamine in the brain by blocking dopamine transporters. Studies have shown modafinil increases high-frequency alpha waves while decreasing both delta and theta wave activity, effects consistent with generalized increases in mental alertness.

Armodafinil is the R-enantiomer of modafinil. Armodafinil binds to the dopamine transporter and inhibits dopamine reuptake, which may result in increased extracellular dopamine levels in the brain. However, it does not appear to be a dopamine receptor agonist and does not appear to bind to or inhibit the most common receptors or enzymes that are relevant for sleep/wake regulation.

Coverage Guidelines

Authorization may be granted for members who are currently receiving treatment with modafinil or armodafinil, excluding when the product is obtained as samples or via manufacturer's patient assistance programs.

Or

Approval may be granted when the following drug specific criteria are met for excessive day time sleepiness (EDS) associated with the following conditions:

Modafinil

1. Patient has a diagnosis of narcolepsy
2. Patient has a diagnosis of excessive sleepiness associated with obstructive sleep apnea or hypopnea syndrome that has been confirmed by a sleep study AND is currently using CPAP
3. Patient has a diagnosis of ADD or ADHD

4. Patient has a diagnosis of fatigue associated with Multiple Sclerosis (MS)
5. Patient has a diagnosis of fatigue associated with chemotherapy
6. Patient has a diagnosis of excessive sleepiness associated with Parkinson's disease
7. Patient has a diagnosis of shift work sleep disorder and all of the following:
    - Patient is ≥ 17 years of age
    - Patient has had an inadequate response, adverse reaction, or contraindication to one hypnotic agent **and** melatonin

Armodafinil

1. Patient has a diagnosis of narcolepsy **OR**
2. Patient has a diagnosis of excessive sleepiness associated with obstructive sleep apnea or hypopnea syndrome that has been confirmed by a sleep study AND is currently using CPAP.
3. Patient has a diagnosis of shift work sleep disorder and all of the following:
    - Patient is ≥ 17 years of age
    - Patient has had an inadequate response, adverse reaction, or contraindication to one hypnotic agent **and** melatonin

Continuation of Therapy

Reauthorization requires physician documentation of improvement of member's condition.

Limitations

1. Approvals will be granted for the following:
    a. Fatigue associated with chemotherapy – 12 months
    b. Excessive sleepiness associated with Parkinson's disease – 12 months
    c. All other indications – 36 months
2. The following diagnoses are excluded from coverage:
    a. Fatigue or sleepiness associated with traumatic brain injuries
    b. Idiopathic hypersomnolence
    c. Fatigue or sleepiness associated with use of narcotic analgesics
    d. Cerebral palsy (spastic)
    e. Adjunctive treatment of depression
3. The following quantity limits apply:

modafinil 100mg and 200mg	30 tablets per 30 days
armodafinil 50mg	60 tablets per 30 days
armodafinil 150mg, 200mg and 250mg	30 tablets per 30 days

References

1. Provigil (modafinil) [prescribing information]. North Wales, PA: Teva Pharmaceuticals USA, Inc; November 2018.
2. Nuvigil (armodafinil) [prescribing information]. North Wales, PA: Teva Pharmaceuticals USA, Inc.; November 2018.
3. Stankoff B, Waubant E, Confavreux C, Edan G, Debouverie M, Rumbach L, et al. Modafinil for fatigue in MS: a randomized placebo-controlled double-blind study. *Neurology. 2005;64(7):1139-43.*
4. Biederman J, Swanson JM, Wigal SB, Boellner SW, Earl CQ, Lopez FA, et al. A comparison of once-daily and divided doses of modafinil in children with attention-deficit/hyperactivity disorder: a randomized, double-blind, and placebo-controlled study. J Clin Psychiatry. 2006;67(1):137-47.
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6. Katon W, and Ciechanowski, P. Initial treatment of depression in adults. In: Schwank TL and Sokol HN, editors. UpToDate. Waltham (MA): UpToDate; 2009.
7. Katon W, and Ciechanowski, P. Treatment of resistant depression in adults. In**:** Schwank TL and Sokol HN, editors. UpToDate. Waltham (MA): UpToDate; 2009.
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9. Roth T, White D, Schmidt-Nowara W, Wesnes K, Niebler G, Arora A, Black J. Effects of armodafinil in the treatment of residual excessive sleepiness associated with obstructive sleep apnea/hypopnea syndrome: a 12-week, multicenter, double-blind, randomized, placebo-controlled study in CPAP-adherent adults. Clin Ther. 2006;28(5):689-706.
10. Hirshkowitz M, Black JE, Wesnes K, Niebler G, Arora S, Roth T. Adjunct armodafinil improves wakefulness and memory in obstructive sleep apnea/hypopnea syndrome. Respir Med. 2007;101(3):616-27.
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12. Sonka K, Susta M. Diagnosis and management of central hypersomnias. Ther Adv Neurol Disord. 2012;5(5):297-305.
13. Drake C, Gumenyuk V, Roth T, Howard R. Effects of armodafinil on simulated driving and alertness in shift work disorder. Sleep 2014; 37:1987
14. Billiard M, Dauvilliers Y, Dolenc-Groselj L, Lammers GJ, Mayer G, Sonka K. Management of narcolepsy in adults. In: Gilhus NE, Barnes MP, Brainin M, editors. European Handbook of neurological management. 2nd edition. Vol 1. Oxford (UK): Wiley-Blackwell; 201:513-28.
15. Tarsy D. Management of comorbid problems associated with Parkinson disease. In: Basow DS (Ed). UpToDate. Waltham (MA): UpToDate; 2015. Available at: http://www.utdol.com/index.do.
16. Spathis A, Fife K, Blackhall F, Dutton S, Bahadori R, Whrton R, et al. Modafinil for the treatment of fatigue in lung cancer: results of a placebo-controlled, double-blind, randomized trial. J Clin Oncol. 2014. Doi: 10.1200/JCO.2013.54.4346.

Review History

06/27/2005 - Reviewed and Revised
04/24/2006 - Reviewed
04/23/2007 - Reviewed
04/28/2008 - Reviewed and Revised
04/27/2009 - Reviewed and Revised
04/26/2010 - Reviewed and Revised
07/15/2010 - Updated per MM/plan direction (stimulant trial for OSA/narcolepsy)
12/15/2010 - Updated (disclaimer)
04/25/2011 - Reviewed
05/17/2011 - Updated (generic Concerta)
04/11/2012 - Updated (modafanil generic; BART request ahead of drug file); removed long-acting stimulant trial
04/23/2012 - Reviewed and Revised (modafinil trial for Nuvigil)
04/22/2013 - Reviewed and Revised
04/28/2014 - Reviewed
06/26/2017 - Reviewed and Revised
04/17/2019 – Reviewed
05/20/2020 – Reviewed and Updated May P&T Mtg; overview written, updated references; added indication of shift work sleep disorder. Effective 8/1/20.

03/1/2021 – Reviewed and Updated; Updated QL to current commercially available products. Removed Armodafinil 100mg (not available) and added armodafinil 250mg QL. Effective 06/01/2021.

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