APUI		PRINTED PACKA	GING MATERIAL	MASTER		
New Material Code: 040-T-00726	ECL Common Text#: N/A	Description: 1225135 Modafinil Tablets Outsert-Patient Leaflet United States				
SAP Ref #: 71807, 718	308 (ZERT)					
Old Material Code: 04	0-T-00726	C of A: N/A		Change Control #: 1712960		
Pantone Colours: BLACK				DIELINE		
F	hird Party - Aphena Pharma Solution lat: 539.7 mm x 387.4 mm olded: 31.7 mm x 31.7 mm		Minimum Font Size: 6 PT	Version No: 2 Cycle No: 1		

NOTE: Pharmacode is vendor specific information and may vary

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	(1.25 in) ← 31.7 mm →			539.7 mm		
		HIGHLIGHTS OF PRESCRIBING INFORMATION These highlights do not include all the information needed to use PROVIGIL safely and effectively. See	Angioedema and Anaphylaxis Reactions: If suspected, discontinue PROVIGIL. (5.2) Multi-organ Hypersensitivity Reactions: If suspected, discontinue PROVIGIL. (5.3)	PROVIGIL (%)	MEDICATION GUIDE PROVIGUE (pro-vii-el)	MEDICATION GUIDE
		full prescribing information for PROVIGIL. PROVIGIL® (modafini)) tablets, for oral use, C-IV Initial U.S. Approval: 1998	 Persistent Sleepiness: Assess patients frequently for degree of sleepiness and, if appropriate, advise patients to avoid driving or engaging in any other potentially dangerous activity. (5.4) 	Chills 1 0 Confusion 1 0 Dvskinesia 1 0	PROVIGIL® (pro-vij-el) (modafinil) Tablets Medication Guide available at	PROVIGIL® (pro-vij-el) (modafinil) Tablets Medication Guide available at
		PROVIGIL is indicated to improve wakefulness in adult patients with excessive sleepiness associated with narcolepsy, obstructive sleep apnea (OSA), or shift work disorder (SWD). (1)	 Psychiatric Symptoms: Use caution in patients with a history of psychosis, depression, or mania. Consider discontinuing PROVIGIL if psychiatric symptoms develop. (5.5) Known Cardiovascular Disease: Consider increased monitoring. (5.7) 	Edema 1 0 Emotional Lability 1 0	https://www.apotex.com/products/us/mg.asp	https://www.apotex.com/products/us/mg.asp Read this Medication Guide before you start taking PROVIG
		Limitations of Use In OSA, PROVIGIL is indicated to treat excessive sleepiness and not as treatment for the underlying obstruction.	Most common adverse reactions (≥5%): headache, nausea, nervousness, rhinitis, diarrhea, back pain, anxiety, insomnia, dizziness, and dyspepsia. (6.1)	Eosinophilia 1 0 Epistaxis 1 0 Flatulence 1 0	Read this Medication Guide before you start taking PROVIGIL and each time you get a refill. There may be new information. This information does not take the place of talking with your doctor about your medical	time you get a refill. There may be new information. This information not take the place of talking with your doctor about your medi
		The recommended dosage of PROVIGIL for each indication is as follows: Narcolepsy or OSA: 200 mg once a day in the morning. (2.1)	To report SUSPECTED ADVERSE REACTIONS, contact Apotex Corp. at 1-800-706-5575 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch	Hyperkinesia 1 0 Hypertonia 1 0 Mouth Ulceration 1 0	condition or treatment. What is the most important information I should know about PROVIGIL?	or treatment. What is the most important information I should know about
		SWD: 200 mg once a day, taken approximately one hour prior to start of the work shift. (2.2) Severe Hepatic Impairment: reduce dose to half the recommended dose. (2.3, 12.3) Geriatric Patients: consider lower dose. (2.4, 12.3)	 Steroidal contraceptives (e.g., ethinyl estradiol): Use alternative or concomitant methods of contraception while taking PROVIGIL and for one month after discontinuation of PROVIGIL treatment. (7) 	Sweating 1 0 Taste Perversion 1 0 Thirst 1 0	PROVIGIL may cause serious side effects including a serious rash or a serious allergic reaction that may affect parts of your body such as	PROVIGIL may cause serious side effects including a serious serious allergic reaction that may affect parts of your body:
			 Cyclosporine: Blood concentrations of cyclosporine may be reduced. (7) CYP2C19 substrates, such as omeprazole, phenytoin, and diazepam: Exposure of these medications may be increased. (7) 	Inirst 1 0 Tremor 1 0 Urine Abnormality 1 0	your liver or blood cells. Any of these may need to be treated in a hospital and may be life-threatening.	liver or blood cells. Any of these may need to be treated and may be life-threatening.
		PROVIGIL is contraindicated in patients with known hypersensitivity to modafinil or armodafinil. (4)	Pregnancy: Based on animal data, may cause fetal harm. (8.1) See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.	Vertigo	Stop taking PROVIGIL and call your doctor right away or get emergency help if you have any of these symptoms:	Stop taking PROVIGIL and call your doctor right away or ge help if you have any of these symptoms:
		 Serious Rash, including Stevens-Johnson Syndrome: Discontinue PROVIGIL at the first sign of rash, unless the rash is clearly not drug-related. (5.1) 	Revised: 02/2025	<u>Dose-Dependent Adverse Reactions</u> In the placebo-controlled clinical trials which compared doses of 200, 300, and 400 mg/day of PROVIGIL and placebo, the following adverse reactions were dose related: headache and anxiety.	 skin rash, hives, sores in your mouth, or your skin blisters and peels swelling of your face, eyes, lips, tongue, or throat 	 skin rash, hives, sores in your mouth, or your skin blisters swelling of your face, eyes, lips, tongue, or throat
		FULL PRESCRIBING INFORMATION: CONTENTS* 1 INDICATIONS AND USAGE 2 DOSAGE AND ADMINISTRATION	8.5 Geriatric Use 8.6 Hepatic Impairment 9 DRUG ABUSE AND DEPENDENCE	Adverse Reactions Resulting in Discontinuation of Treatment In placebo-controlled clinical trials, 74 of the 934 patients (8%) who received PROVIGIL discontinued due to an adverse reaction compared to 3% of patients that received placebo. The most frequent reasons for	 trouble swallowing or breathing fever, shortness of breath, swelling of the legs, yellowing of the skin or 	 trouble swallowing or breathing fever, shortness of breath, swelling of the legs, yellowing
in) mm –		 2.1 Dosage in Narcolepsy and Obstructive Sleep Apnea (OSA) 2.2 Dosage in Shift Work Disorder (SWD) 2.3 Dosage Modifications in Patients with Severe Hepatic Impairment 	9.1 Controlled Substance 9.2 Abuse 9.3 Dependence	discontinuation that occurred at a higher rate for PROVIGIL than placebo patients were headache (2%), nausea, anxiety, dizziness, insomnia, chest pain, and nervousness (each <1%). <u>Laboratory Abnormalities</u>	whites of the eyes, or dark urine If you have a severe rash with PROVIGIL, stopping the medicine may	whites of the eyes, or dark urine If you have a severe rash with PROVIGIL, stopping the n
56		2.4 Use in Geriatric Patients 3 DOSAGE FORMS AND STRENGTHS 4 CONTRAINDICATIONS 5 WARNINGS AND PRECAUTIONS	10 OVERDOSAGE 11 DESCRIPTION 12 CLINICAL PHARMACOLOGY 12.1 Mechanism of Action	Clinical chemistry, hematology, and urinalysis parameters were monitored in the studies. Mean plasma levels of gamma glutamyltransferase (GGT) and alkaline phosphatase (AP) were found to be higher following administration of PROVIGIL, but not placebo. Few patients, however, had GGT or AP elevations outside of the	not keep the rash from becoming life-threatening or causing you to be permanently disabled or disfigured.	not keep the rash from becoming life-threatening or causi permanently disabled or disfigured.
(1.1 — 29		5.1 Serious Rash, including Stevens-Johnson Syndrome 5.2 Angioedema and Anaphylaxis Reactions 5.3 Multi-organ Hypersensitivity Reactions	12.3 Pharmacokinetics 13 NONCLINICAL TOXICOLOGY 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility	normal range. Shifts to higher, but not clinically significantly abnormal, GGT and AP values appeared to increase with time in the population treated with PROVIGIL in the placebo-controlled clinical trials. No differences were apparent in alanine aminotransferase (ALT), aspartate aminotransferase (AST), total protein, albumin, or total	PROVIGIL is not approved for use in children for any medical condition. It is not known if PROVIGIL is safe or effective in children under 17 years	PROVIGIL is not approved for use in children for any medic It is not known if PROVIGIL is safe or effective in children ur
		5.4 Persistent Sleepiness 5.5 Psychiatric Symptoms 5.6 Effects on Ability to Drive and Use Machinery	14 CLINICAL STUDIES 14.1 Narcolepsy 14.2 Obstructive Sleep Apnea (OSA)	bilirubin. 6.2 Postmarketing Experience The following adverse reactions have been identified during post approval use of PROVIGIL. Because these	of age. What is PROVIGIL?	of age. What is PROVIGIL?
Ē.		5.7 Cardiovascular Events 6 ADVERSE REACTIONS 6.1 Clinical Trials Experience	14.3 Shift Work Disorder (SWD) 16 HOW SUPPLIED/STORAGE AND HANDLING 16.1 How Supplied	reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure. Hematologic: agranulocytosis	PROVIGIL is a prescription medicine used to improve wakefulness in adults who are very sleepy due to one of the following diagnosed sleep	PROVIGIL is a prescription medicine used to improve wakefull who are very sleepy due to one of the following diagnosed sle
343 i .1 m	GLUE Area	6.2 Postmarketing Experience 7 DRUG INTERACTIONS 8 USE IN SPECIFIC POPULATIONS	16.2 Storage 17 PATIENT COUNSELING INFORMATION *Sections or subsections omitted from the full prescribing information are not listed.	Psychiatric disorders: psychomotor hyperactivity 7	disorders: • narcolepsy	 narcolepsy obstructive sleep apnea (OSA). PROVIGIL is used to tree
(1. - 34	AILA	8.1 Pregnancy8.3 Nursing Mothers8.4 Pediatric Use	Sections of subsections offitted from the full presenting information are not risted.	The clearance of drugs that are substrates for CYP3A4/5 (e.g., steroidal contraceptives, cyclosporine, midazolam, and triazolam) may be increased by PROVIGIL via induction of metabolic enzymes, which results in lower systemic exposure. Dosage adjustment of these drugs should be considered when these drugs are used	obstructive sleep apnea (OSA). PROVIGIL is used to treat excessive sleepiness, but not the obstruction or medical condition that is causing OSA. You should talk with your doctor about treatments for	 sleepiness, but not the obstruction or medical condition the OSA. You should talk with your doctor about treatments for you start taking PROVIGIL and during treatment with
		FULL PRESCRIBING INFORMATION 1 INDICATIONS AND USAGE	with placebo were anxiety (1%), nervousness (1%), insomnia (<1%), confusion (<1%), agitation (<1%), and depression (<1%).	concomitantly with PROVIGIL [see Clinical Pharmacology (12.3)]. The effectiveness of steroidal contraceptives may be reduced when used with PROVIGIL and for one month after discontinuation of therapy. Alternative or concomitant methods of contraception are recommended for	OSA before you start taking PROVIGIL and during treatment with PROVIGIL PROVIGIL does not take the place of treatments that your	PROVIGIL does not take the place of treatments that you prescribed for OSA. It is important that you continue
↑	F. Only Revised: 02/2025	PROVIGIL is indicated to improve wakefulness in adult patients with excessive sleepiness associated with narcolepsy, obstructive sleep apnea (OSA), or shift work disorder (SWD). Limitations of Use	Postmarketing adverse reactions associated with the use of modafinil have included mania, delusions, hallucinations, suicidal ideation, and aggression, some resulting in hospitalization. Many, but not all, patients had a prior psychiatric history. One healthy male volunteer developed ideas of reference, paranoid	patients taking steroidal contraceptives (e.g., ethinyl estradiol) when treated concomitantly with PROVIGIL and for one month after discontinuation of PROVIGIL treatment. Blood levels of cyclosporine may be reduced when used with PROVIGIL. Monitoring of circulating cyclosporine	doctor has prescribed for OSA. It is important that you continue to use these treatments as prescribed by your doctor.	treatments as prescribed by your doctor. • shift work disorder (SWD)
4 in) 7 mm	PROVIGIL® Tablet (Minisbom)	In OSA, PROVIGIL is indicated to treat excessive sleepiness and not as treatment for the underlying obstruction. If continuous positive airway pressure (CPAP) is the treatment of choice for a patient, a maximal effort to treat with CPAP for an adequate period of time should be made prior to initiating and during treatment with	delusions, and auditory hallucinations in association with multiple daily 600 mg doses of PROVIGIL (three times the recommended dose) and sleep deprivation. There was no evidence of psychosis 36 hours after drug discontinuation.	concentrations and appropriate dosage adjustment for cyclosporine should be considered when used concomitantly with PROVIGIL. Effects of PROVIGIL on CYP2C19 Substrates	 shift work disorder (SWD) PROVIGIL will not cure these sleep disorders. PROVIGIL may help the 	PROVIGIL will not cure these sleep disorders. PROVIG the sleepiness caused by these conditions, but it may not
(1.4	92700-T-040	PROVIGIL for excessive sleepiness. DOSAGE AND ADMINISTRATION Dosage in Narcolepsy and Obstructive Sleep Apnea (OSA)	Caution should be exercised when PROVIGIL is given to patients with a history of psychosis, depression, or mania. Consideration should be given to the possible emergence or exacerbation of psychiatric symptoms in patients treated with PROVIGIL. If psychiatric symptoms develop in association with PROVIGIL administration,	Elimination of drugs that are substrates for CYP2C19 (e.g., phenytoin, diazepam, propranolol, omeprazole,	sleepiness caused by these conditions, but it may not stop all your sleepiness. PROVIGIL does not take the place of getting enough sleep.	sleepiness. PROVIGIL does not take the place of getting e Follow your doctor's advice about good sleep habits and
	III III III III III III a	The recommended dosage of PROVIGIL for patients with narcolepsy or OSA is 200 mg taken orally once a day as a single dose in the morning. Doses up to 400 mg/day, given as a single dose, have been well tolerated, but there is no consistent evidence	consider discontinuing PROVIGIL. 5.6 Effects on Ability to Drive and Use Machinery Although PROVIGIL has not been shown to produce functional impairment, any drug affecting the CNS may	ancillary routes of elimination through CYP2C19, such as tricyclic antidepressants and selective serotonin reuptake inhibitors, may be increased by co-administration of PROVIGIL. Dose adjustments of these drugs and other drugs that are substrates for CYP2C19 may be necessary when used concomitantly with PROVIGIL [see	Follow your doctor's advice about good sleep habits and using other treatments.	treatments. PROVIGIL is a federally controlled substance (C-IV) because
	111 1011 1010 101 1011 1011 1011 111 11	that this dose confers additional benefit beyond that of the 200 mg/day dose [see Clinical Pharmacology (12.3) and Clinical Studies (14.1, 14.2)].	alter judgment, thinking or motor skills. Patients should be cautioned about operating an automobile or other hazardous machinery until it is reasonably certain that PROVIGIL therapy will not adversely affect their ability to engage in such activities.	Clinical Pharmacology (12.3)]. <u>Warfarin</u> More frequent monitoring of prothrombin times/INR should be considered whenever PROVIGIL is	PROVIGIL is a federally controlled substance (C-IV) because it can be abused or lead to dependence. Keep PROVIGIL in a safe place to	abused or lead to dependence. Keep PROVIGIL in a safe place misuse and abuse. Selling or giving away PROVIGIL may har and is against the law. Tell your destartif you have good abuse.
		2.2 Dosage in Shift Work Disorder (SWD) The recommended dosage of PROVIGIL for patients with SWD is 200 mg taken orally once a day as a single dose approximately 1 hour prior to the start of their work shift.	5.7 Cardiovascular Events In modafinil clinical studies, cardiovascular adverse reactions, including chest pain, palpitations, dyspnea, and transient ischemic T-wave changes on ECG occurred in three subjects in association with mitral valve	coadministered with warfarin [see Clinical Pharmacology (12.3)]. Monoamine Oxidase (MAO) Inhibitors	prevent misuse and abuse. Selling or giving away PROVIGIL may harm others, and is against the law. Tell your doctor if you have ever abused or been dependent on alcohol, prescription medicines, or street drugs.	and is against the law. Tell your doctor if you have ever abuse dependent on alcohol, prescription medicines, or street drugs
	040-T-00726 PROVIGIL®_	2.3 Dosage Modifications in Patients with Severe Hepatic Impairment In patients with severe hepatic impairment, the dosage of PROVIGIL should be reduced to one-half of that recommended for patients with normal hepatic function [see Use in Specific Populations (8.6) and Clinical	prolapse or left ventricular hypertrophy. In a Canadian clinical trial, a 35 year old obese narcoleptic male with a prior history of syncopal episodes experienced a 9-second episode of asystole after 27 days of modafinil treatment (300 mg/day in divided doses). PROVIGIL is not recommended in patients with a history of left	8 USE IN SPECIFIC POPULATIONS 8.1 Pregnancy	Who should not take PROVIGIL?	Who should not take PROVIGIL? Do not take PROVIGIL if you:
	(modafinil) Tablet 🔃 By Only Revised: 02/2025	Pharmacology (12.3)]. 2.4 Use in Geriatric Patients Consideration should be given to the use of lower doses and close monitoring in geriatric patients [see Use in	ventricular hypertrophy or in patients with mitral valve prolapse who have experienced the mitral valve prolapse syndrome when previously receiving CNS stimulants. Findings suggestive of mitral valve prolapse syndrome include but are not limited to ischemic ECG changes, chest pain, or arrhythmia. If new onset of any of these	<u>Pregnancy Category C</u> There are no adequate and well-controlled studies of modafinil in pregnant women. Intrauterine growth restriction and spontaneous abortion have been reported in association with modafinil (a mixture of R- and S-modafinil) and armodafinil (the R- enantiomer of modafinil). Although the pharmacology of modafinil is not	Do not take PROVIGIL if you: • are allergic or developed a rash to modafinil or armodafinil (NUVIGIL®)	 are allergic or developed a rash to modafinil or armodafini or any of the ingredients in PROVIGIL. See the end of thi
		Specific Populations (8.5)]. 3	findings occurs, consider cardiac evaluation. Consider increased monitoring in patients with a recent history of myocardial infarction or unstable angina. Blood pressure monitoring in short term (< 3 months) controlled trials showed no clinically significant changes	identical to that of the sympathomimetic amines, it does share some pharmacologic properties with this class. Certain of these drugs have been associated with intrauterine growth restriction and spontaneous abortions. Whether the cases reported with modafinil are drug-related is unknown. In studies of modafinil and armodafinil	or any of the ingredients in PROVIGIL. See the end of this Medication Guide for a complete list of ingredients in PROVIGIL.	Guide for a complete list of ingredients in PROVIGIL. What should I tell my doctor before taking PROVIGIL?
		"100 MG" on the other. 200 mg – capsule-shaped, white to off white, scored, tablet, debossed with "PROVIGIL" on one side and "200 MG" on the other.	in mean systolic and diastolic blood pressure in patients receiving PROVIGIL as compared to placebo. However, a retrospective analysis of the use of antihypertensive medication in these studies showed that a greater proportion of patients on PROVIGIL required new or increased use of antihypertensive medications (2.4%) compared to patients on placebo (0.7%). The differential use was slightly larger when only studies in OSA were	conducted in rats (modafinil, armodafinil) and rabbits (modafinil), developmental toxicity was observed at clinically relevant plasma exposures. PROVIGIL should be used during pregnancy only if the potential benefit justifies the potential risk to the fetus.	What should I tell my doctor before taking PROVIGIL? Tell your doctor about all of your medical conditions including, if you: have a history of mental health problems, including psychosis	 Tell your doctor about all of your medical conditions include have a history of mental health problems, including psychological have heart problems or had a heart attack
	GLUE	4 CONTRAINDICATIONS PROVIGIL is contraindicated in patients with known hypersensitivity to modafinil or armodafinil or its inactive ingredients <i>[see Warnings and Precautions (5.1, 5.2, 5.3)]</i> .	included, with 3.4% of patients on PROVIGIL and 1.1% of patients on placebo requiring such alterations in the use of antihypertensive medication. Increased monitoring of heart rate and blood pressure may be appropriate in patients on PROVIGIL. Caution should be exercised when prescribing PROVIGIL to patients with known	Modafinil (50, 100, or 200 mg/kg/day) administered orally to pregnant rats throughout organogenesis caused, in the absence of maternal toxicity, an increase in resorptions and an increased incidence of visceral and skeletal variations in the offspring at the highest dose tested. The higher no-effect dose for embryofetal developmental	 have heart problems or had a heart attack have high blood pressure. Your blood pressure may need to be checked 	have high blood pressure. Your blood pressure may need to more often while taking PROVIGIL.
		 5 WARNINGS AND PRECAUTIONS 5.1 Serious Rash, including Stevens-Johnson Syndrome Serious rash requiring hospitalization and discontinuation of treatment has been reported in association with 	cardiovascular disease. 6 ADVERSE REACTIONS The following serious adverse reactions are described elsewhere in the labeling:	toxicity in rats (100 mg/kg/day) was associated with a plasma modafinil AUC less than that in humans at the recommended human dose (RHD) of PROVIGIL (200 mg/day). However, in a subsequent study of up to 480 mg/kg/day of modafinil, no adverse effects on embryofetal development were observed. Oral administration of ampdefinil (60, 200 or 600 mg/kg/day) to program that throughout programmers resulted in increased.	more often while taking PROVIGIL. • have liver or kidney problems	 have liver or kidney problems have a history of drug or alcohol abuse or addiction
		the use of modafinil. In clinical trials of modafinil, the incidence of rash resulting in discontinuation was approximately 0.8% (13 per 1,585) in pediatric patients (age <17 years); these rashes included 1 case of possible Stevens-Johnson	Serious Rash, including Stevens-Johnson Syndrome [see Warnings and Precautions (5.1)] Angioedema and Anaphylaxis Reactions [see Warnings and Precautions (5.2)] Multi-organ Hypersensitivity Reactions Isee Warnings and Precautions (5.3)]	of armodafinil (60, 200, or 600 mg/kg/day) to pregnant rats throughout organogenesis resulted in increased incidences of fetal visceral and skeletal variations and decreased fetal body weight at the highest dose tested. The highest no-effect dose for embryofetal developmental toxicity in rats (200 mg/kg/day) was associated with a plasma armodafinil AUC less than that in humans at the RHD of PROVIGIL.	 have a history of drug or alcohol abuse or addiction are pregnant or planning to become pregnant. It is not known if 	are pregnant or planning to become pregnant. It is not know will harm your unborn baby.
		Syndrome (SJS) and 1 case of apparent multi-organ hypersensitivity reaction. Several of the cases were associated with fever and other abnormalities (e.g., vomiting, leukopenia). The median time to rash that resulted in discontinuation was 13 days. No such cases were observed among 380 pediatric patients who	Persistent Sleepiness [see Warnings and Precautions (5.4)] Psychiatric Symptoms [see Warnings and Precautions (5.5)]	Modafinii administered orally to pregnant rabbits throughout organogenesis at doses of up to 100 mg/kg/day had no effect on embryofetal development; however, the doses used were too low to adequately assess the effects of modafinii on embryofetal development. In a subsequent developmental toxicity study evaluating doses	PROVIGIL will harm your unborn baby. Pregnancy Registry: There is a registry for women who become	Pregnancy Registry: There is a registry for women pregnant during treatment with PROVIGIL. The purpose of
		received placebo. PROVIGIL is not approved for use in pediatric patients for any indication [see Use in Specific Populations (8.4)]. Rare cases of serious or life-threatening rash, including SJS, Toxic Epidermal Necrolysis (TEN), and Drug Rash	 Effects on Ability to Drive and Use Machinery [see Warnings and Precautions (5.6)] Cardiovascular Events [see Warnings and Precautions (5.7)] Clinical Trials Experience 	of 45, 90, and 180 mg/kg/day in pregnant rabbits, the incidences of fetal structural alterations and embryofetal death were increased at the highest dose. The highest no-effect dose for developmental toxicity (100 mg/kg/day) was associated with a plasma modafinil AUC similar to that in humans at the RHD of PROVIGIL.	pregnant during treatment with PROVIGIL. The purpose of this registry is to collect information about the safety of PROVIGIL during	is to collect information about the safety of PROVIGIL during Contact the registry as soon as you learn that you are pre
		with Eosinophilia and Systemic Symptoms (DRESS) have been reported in adults and children in worldwide postmarketing experience. The reporting rate of TEN and SJS associated with modafinil use, which is generally accepted to be an underestimate due to underreporting, exceeds the background incidence rate. Estimates of	Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.	Modafinii administration to rats throughout gestation and lactation at oral doses of up to 200 mg/kg/day resulted in decreased viability in the offspring at doses greater than 20 mg/kg/day, a dose resulting in a plasma modafinii AUC less than that in humans at the RHD of PROVIGIL. No effects on postnatal developmental and	pregnancy. Contact the registry as soon as you learn that you are pregnant, or ask your doctor to contact the registry for you. You or	your doctor to contact the registry for you. You or your d information and enroll you in the registry by calling 1-866.
		the background incidence rate for these serious skin reactions in the general population range between 1 to 2 cases per million-person years. There are no factors that are known to predict the risk of occurrence or the severity of rash associated with	PROVIGIL has been evaluated for safety in over 3,500 patients, of whom more than 2,000 patients with excessive sleepiness associated with OSA, SWD, and narcolepsy. Most Common Adverse Reactions	neurobehavioral parameters were observed in surviving offspring. Pregnancy Registry A pregnancy registry has been established to collect information on the pregnancy outcomes of women	your doctor can get information and enroll you in the registry by calling 1-866-404- 4106. • are breastfeeding. It is not known if PROVIGIL passes into your breast	 are breastfeeding. It is not known if PROVIGIL passes int milk. Talk to your doctor about the best way to feed your ba PROVIGIL.
		PROVIGIL. Nearly all cases of serious rash associated with modafinil occurred within 1 to 5 weeks after treatment initiation. However, isolated cases have been reported after prolonged treatment (e.g., 3 months). Accordingly, duration of therapy cannot be relied upon as a means to predict the potential risk heralded by the first appearance of a rash.	In placebo-controlled clinical trials, the most common adverse reactions (≥ 5%) associated with the use of PROVIGIL more frequently than placebo-treated patients were headache, nausea, nervousness, rhinitis, diarrhea, back pain, anxiety, insomnia, dizziness, and dyspepsia. The adverse reaction profile was similar	exposed to PROVIGIL. Healthcare providers are encouraged to register pregnant patients, or pregnant women may enroll themselves in the registry by calling 1-866-404-4106 (toll free).	milk. Talk to your doctor about the best way to feed your baby if you take PROVIGIL.	Tell your doctor about all the medicines you take, including and over-the-counter medicines, vitamins, and herbal
		Although benign rashes also occur with PROVIGIL, it is not possible to reliably predict which rashes will prove to be serious. Accordingly, PROVIGIL should be discontinued at the first sign of rash, unless the rash is	across these studies. Table 1 presents the adverse reactions that occurred at a rate of 1% or more and were more frequent in PROVIGIL-treated patients than in placebo-treated patients in the placebo-controlled clinical trials.	It is not known whether modafinil or its metabolites are excreted in human milk. Because many drugs are excreted in human milk, caution should be exercised when PROVIGIL is administered to a nursing woman.	Tell your doctor about all the medicines you take , including prescription and over-the-counter medicines, vitamins, and herbal supplements.	PROVIGIL and many other medicines can interact with sometimes causing side effects. PROVIGIL may affect the
		clearly not drug-related. Discontinuation of treatment may not prevent a rash from becoming life-threatening or permanently disabling or disfiguring. 5.2 Angioedema and Anaphylaxis Reactions	Table 1. Adverse Reactions in Pooled Placebo-Controlled Trials* in Narcolepsy, OSA, and SWD PROVIGIL (%) Placebo (%)	8.4 Pediatric Use Safety and effectiveness in pediatric patients have not been established. PROVIGIL is not approved in this population for any indication.	PROVIGIL and many other medicines can interact with each other, sometimes causing side effects. PROVIGIL may affect the way other	medicines work, and other medicines may affect how PRO Your dose of PROVIGIL or certain other medicines may need to
		Angioedema and hypersensitivity (with rash, dysphagia, and bronchospasm), were observed in patients treated with armodafinil, the R enantiomer of modafinil (which is the racemic mixture). No such cases were mobserved in modafinil clinical trials. However, angioedema has been reported in postmarketing experience were modafinil. Patients, should be advised to discontinue therapy and imprediately report to their physician any signs or	(n = 934) (n = 567) Headache 34 23 Nausea 11 3	Serious skin rashes, including erythema multiforme major (EMM) and Stevens-Johnson Syndrome (SJS) have been associated with modafinil use in pediatric patients [see Warnings and Precautions (5.1)]. In a controlled 6-week study, 165 pediatric patients (aged 5-17 years) with narcolepsy were treated with	medicines work, and other medicines may affect how PROVIGIL works. Your dose of PROVIGIL or certain other medicines may need to be	Especially, tell your doctor if you use or take: • a hormonal birth control method, such as birth control
		Patients should be advised to discontinue therapy and immediately report to their physician any signs or symptoms suggesting angioedema or anaphylaxis (e.g., swelling of face, eyes, lips, tongue or larynx; difficulty in swallowing or breathing; hoarseness).	Nervousness 7 3 Rhinitis 7 6 Back Pain 6 5	modafinil (n=123), or placebo (n=42). There were no statistically significant differences favoring modafinil over placebo in prolonging sleep latency as measured by MSLT, or in perceptions of sleepiness as determined by the clinical global impression-clinician scale (CGI-C).	changed. Especially, tell your doctor if you use or take:	implants, patches, vaginal rings, and intrauterine dev Hormonal birth control methods may not work while you tal
		5.3 Multi-organ Hypersensitivity Reactions Multi-organ hypersensitivity reactions, including at least one fatality in postmarketing experience, have occurred in close temporal association (median time to detection 13 days: range 4-33) to the initiation of modafinil.	Diarrhea 6 5 Anxiety 5 1	In the controlled and open-label clinical studies, treatment emergent adverse reactions of the psychiatric and nervous system included Tourette's syndrome, insomnia, hostility, increased cataplexy, increased hypnagogic hallucinations, and suicidal ideation. Transient leukopenia, which resolved without	 a hormonal birth control method, such as birth control pills, shots, implants, patches, vaginal rings, and intrauterine devices (IUDs). Hormonal birth control methods may not work while you take 	Women who use one of these methods of birth control may chance for getting pregnant while taking PROVIGIL, and for after stopping PROVIGIL. Talk to your doctor about birth co
		Although there have been a limited number of reports, multi-organ hypersensitivity reactions may result in hospitalization or be life-threatening. There are no factors that are known to predict the risk of occurrence or the severity of multi-organ hypersensitivity reactions. Signs and symptoms of this disorder were eliverse;	Dizziness 5 4 Dyspepsia 5 4 Insomnia 5 1	medical intervention, was also observed. In the controlled clinical study, 3 of 38 girls, ages 12 or older, treated with modafinil experienced dysmenorrhea compared to 0 of 10 girls who received placebo. There were three 7 to 9 week, double-blind, placebo-controlled, parallel group studies in children and	PROVIGIL. Women who use one of these methods of birth control may have a higher chance for getting pregnant while taking PROVIGIL.	that are right for you while taking PROVIGIL. Know the medicines you take. Keep a list of them and show it t
		however, patients typically, although not exclusively, presented with fever and rash associated with other organ system involvement. Other associated manifestations included myocarditis, hepatitis, liver function test abnormalities, hematological abnormalities (e.g., eosinophilia, leukopenia, thrombocytopenia), pruritus, and asthenia. Because multi-organ hypersensitivity is variable in its expression, other organ system symptoms and	Anorexia 4 1 Dry Mouth 4 2 Pharyngitis 4 2	adolescents (aged 6-17 years) with Attention-Deficit Hyperactivity Disorder (ADHD). Two of the studies were flexible-dose studies (up to 425 mg/day), and the third was a fixed-dose study (340 mg/day for patients <30 kg and 425 mg/day for patients ≥30 kg). Although these studies showed statistically significant differences	and for one month after stopping PROVIGIL. Talk to your doctor about birth control choices that are right for you while taking PROVIGIL.	and pharmacist when you get a new medicine. Your doctor of will tell you if it is safe to take PROVIGIL and other medicines
		signs, not noted here, may occur. If a multi-organ hypersensitivity reaction is suspected, PROVIGIL should be discontinued. Although there are	Chest Pain 3 1	favoring modafinil over placebo in reducing ADHD symptoms as measured by the ADHD-RS (school version), there were 3 cases of serious rash including one case of possible SJS among 933 patients exposed to modafinil in this program. Modafinil is not approved for use in treating ADHD.	Know the medicines you take. Keep a list of them and show it to your doctor and pharmacist when you get a new medicine. Your doctor or	not start any new medicines with PROVIGIL unless your do you it is okay.
		no case reports to indicate cross-sensitivity with other drugs that produce this syndrome, the experience with drugs associated with multi- organ hypersensitivity would indicate this to be a possibility. 5.4 Persistent Sleepiness	Constitution 2 1	8.5 Geriatric Use In clinical trials, experience in a limited number of modafinil-treated patients who were greater than 65 years of age showed an incidence of adverse reactions similar to other age groups. In elderly patients, elimination of	pharmacist will tell you if it is safe to take PROVIGIL and other medicines together. Do not start any new medicines with PROVIGIL unless your doctor has told you it is okay.	How should I take PROVIGIL? • Take PROVIGIL exactly as prescribed by your doctor. You
		Patients with abnormal levels of sleepiness who take PROVIGIL should be advised that their level of wakefulness may not return to normal. Patients with excessive sleepiness, including those taking PROVIGIL, should be frequently reassessed for their degree of sleepiness and, if appropriate, advised to avoid driving or any other patients with prescribers should lead be aware that notifier that notifier the patients of the province of the patients of the patien	Palpitation 2 1 Paresthesia 2 0 Somnolence 2 1	modafinil and its metabolites may be reduced as a consequence of aging. Therefore, consideration should be given to the use of lower doses and close monitoring in this population [see Dosage and Administration (2.4) and Clinical Pharmacology (12.3)].	doctor has told you it is okay. How should I take PROVIGIL? Take PROVIGIL executive as prescribed by your doctor. Your doctor will	prescribe the dose of PROVIGIL that is right for you. Do not dose of PROVIGIL without talking to your doctor. A Your doctor will talk you the right time of day to take PROVIGING.
		potentially dangerous activity. Prescribers should also be aware that patients may not acknowledge sleepiness or drowsiness until directly questioned about drowsiness or sleepiness during specific activities. 5.5 Psychiatric Symptoms	Tachycardia 2 1 Vasodilatation 2 0 Abnormal Vision 1 0	8.6 Hepatic Impairment In patients with severe hepatic impairment, the dose of PROVIGIL should be reduced to one-half of that recommended for patients with normal hepatic function [see Dosage and Administration (2.3) and Clinical	 Take PROVIGIL exactly as prescribed by your doctor. Your doctor will prescribe the dose of PROVIGIL that is right for you. Do not change your dose of PROVIGIL without talking to your doctor. 	 Your doctor will tell you the right time of day to take PROVI People with narcolepsy or OSA usually take PROVIGIL 1 t in the morning.
		Psychiatric adverse reactions have been reported in patients treated with modafinil. In the adult PROVIGIL controlled trials, psychiatric symptoms resulting in treatment discontinuation (at a frequency >0.3%) and reported more often in patients treated with PROVIGIL compared to those treated	Agitation 1 0 Asthma 1 0	Pharmacology (12.3)].	Your doctor will tell you the right time of day to take PROVIGIL.	 People with SWD usually take PROVIGIL about 1 hour work shift.

SAP Ref #: 71807, 71808 (ZERT)

NOTE: Pharmacode is vendor specific information and may vary

Page 2 of 2

(21.25 in) 539.7 mm

 Do not change the time of day you take PROVIGIL unless you have talked to your doctor. If you take PROVIGIL too close to your bedtime, you may day in the morning. find it harder to go to sleep. You can take PROVIGIL with or without food. work shift. If you take more than your prescribed dose or if you take an overdose of PROVIGIL, call your doctor or go to the nearest hospital emergency room right away. you may find it harder to go to sleep. You can take PROVIGIL with or without food. Symptoms of an overdose of PROVIGIL may include: trouble sleeping restlessness room right away. confusion Symptoms of an overdose of PROVIGIL may include: feeling disoriented feeling excited trouble sleeping hearing, seeing, feeling, or sensing things that are not really there confusion nausea and diarrhea feeling disoriented a fast or slow heartbeat feeling excited chest pain increased blood pressure (hallucinations) nausea and diarrhea What should I avoid while taking PROVIGIL? a fast or slow heartbeat Do not drive a car or do other dangerous activities until you know how chest pain PROVIGIL affects you. People with sleep disorders should always be increased blood pressure careful about doing things that could be dangerous. Do not change your daily habits until your doctor tells you it is okay. What should I avoid while taking PROVIGIL? You should avoid drinking alcohol. It is not known how drinking alcohol will affect you when taking PROVIGIL What are possible side effects of PROVIGIL? your daily habits until your doctor tells you it is okay. PROVIGIL may cause serious side effects. Stop taking PROVIGIL and call your doctor right away or get emergency help if you get any of the will affect you when taking PROVIGIL What are possible side effects of PROVIGIL? • a serious rash or serious allergic reaction. (See "What is the most important information I should know about PROVIGIL?") mental (psychiatric) symptoms, including: depression feeling anxious · hearing, seeing, feeling, or sensing things that are not really there mental (psychiatric) symptoms, including: an extreme increase in activity and talking (mania) depression thoughts of suicide feeling anxious hearing, seeing, feeling, or sensing things that are not really there aggressive behavior other mental problems (hallucinations) • symptoms of a heart problem, including chest pain, abnormal heartbeat, • àn extreme increase in activity and talking (mania) and trouble breathing thoughts of suicide aggressive behavior Common side effects that can happen in anyone who takes PROVIGIL | other mental problems include • symptoms of a heart problem, including chest pain, abnormal headache diarrhea heartbeat, and trouble breathing. back pain feeling anxious Common side effects that can happen in anyone who takes PROVIGIL nausea trouble sleeping include: feeling nervous dizziness stuffy nose upset stomach headache diarrhea back pain feeling anxious **PROVIGIL** is not approved for use in children for any medical condition trouble sleeping nausea including Attention Deficit Hyperactivity Disorder (ADHD). In studies of feeling nervous dizziness PROVIGIL in children with narcolepsy, side effects included: stuffy nose upset stomach Tourette's syndrome PROVIGIL is not approved for use in children for any medical condition hostile behavior increase in sudden loss of muscle tone and severe muscle weakness including Attention Deficit Hyperactivity Disorder (ADHD). In studies of • increase in seeing and hearing things when falling asleep PROVIGIL in children with narcolepsy, side effects included: Tourette's syndrome increase in suicidal thoughts

People with narcolepsy or OSA usually take PROVIGIL 1 time each People with SWD usually take PROVIGIL about 1 hour before their Do not change the time of day you take PROVIGIL unless you have talked to your doctor. If you take PROVIGIL too close to your bedtime, If you take more than your prescribed dose or if you take an overdose of PROVIGIL, call your doctor or go to the nearest hospital emergency hearing, seeing, feeling, or sensing things that are not really there combination with other drugs have included insomnia; central nervous system symptoms such as restlessness Do not drive a car or do other dangerous activities until you know how PROVIGIL affects you. People with sleep disorders should always be careful about doing things that could be dangerous. Do not change You should avoid drinking alcohol. It is not known how drinking alcohol **PROVIGIL** may cause serious side effects. Stop taking PROVIGIL and call your doctor right away or get emergency help if you get any of the is C₁₅H₁₅NO₂S and the molecular weight is 273.35. a serious rash or serious allergic reaction. (See "What is the most important information I should know about PROVIGIL?")

> sparingly to slightly soluble in methanol and acetone PROVIGIL tablets contain 100 mg or 200 mg of modafinil and the following inactive ingredients: croscarmellose sodium, lactose monohydrate, magnesium stearate, microcrystalline cellulose, povidone, and pregelatinized 12.1 Mechanism of Action pharmacologic profile is not identical to that of the sympathomimetic amines. the rat vas deferens preparation

in cats to the effects of modafinil in humans is unknown.

 hostile behavior increase in sudden loss of muscle tone and severe muscle weakness • increase in seeing and hearing things when falling asleep increase in suicidal thoughts low white blood count of modafinil, modafinil acid and modafinil sulfone, do not appear to contribute to the CNS-activating properties painful menstrual periods

Tell your doctor if you get any side effect that bothers you or that does These are not all the side effects of PROVIGIL. For more information, ask Some effects of PROVIGIL on the brain are the same as other medicines

Call your doctor for medical advice about side effects. You may report PROVIGIL is readily absorbed after oral administration, with peak plasma concentrations occurring at side effects to FDA at 1-800-FDA-1088. How should I store PROVIGIL? reach peak concentration (t_{max}) may be delayed by approximately one hour if taken with food. • Store PROVIGIL at room temperature between 68° F and 77° F

 Keep PROVIGIL and all medicines out of the reach of children. General information about the safe and effective use of PROVIGIL Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use PROVIGIL for a condition for which it was not prescribed. Do not give PROVIGIL to other people, even

if they have the same symptoms you have. It may harm them and it is against the law. This Medication Guide summarizes the most important information about PROVIGIL. If you would like more information, talk with your doctor. You can ask your doctor or pharmacist for information about PROVIGIL that is written for health professionals. For more information,

called "stimulants". These effects may lead to abuse or dependence on

call 1-800-706-5575. What are the ingredients in PROVIGIL? Active Ingredient: modafinil

not go away while taking PROVIGIL

your doctor or pharmacist

(20° C and 25° C).

Inactive Ingredients: lactose monohydrate, microcrystalline cellulose, pregelatinized starch, croscarmellose sodium, povidone, and magnesium This Medication Guide has been approved by the U.S. Food and Drug Manufactured for:

Apotex Corp., Weston, Florida 33326 USA This Medication Guide has been approved by the U.S. Food and Drug All rights reserved

Administration.

ApoPharma is a registered trademark of Apotex Inc. The influence of race on the pharmacokinetics of modafinil has not been studied. Revised: February 2025

DRUG ABUSE AND DEPENDENCE Controlled Substance IL contains modafinil, a Schedule IV controlled substance

In humans, modafinil produces psychoactive and euphoric effects, alterations in mood, perception, thinking, and feelings typical of other CNS stimulants. In in vitro binding studies, modafinil binds to the dopamine reuptake site and causes an increase in extracellular dopamine, but no increase in dopamine release. Modafinil is reinforcing, as evidenced by its self-administration in monkeys previously trained to self-administer cocaine. In some studies, modafinil was also partially discriminated as stimulant-like. Physicians should follow patients closely, especially those with a history of drug and/or stimulant (e.g., methylphenidate, amphetamine, or cocaine) abuse. Patients should be observed for signs of misuse or abuse (e.g., incrementation of doses or activity. Other CYP activities did not appear to be affected by modafinil.

The abuse potential of modafinil (200, 400, and 800 mg) was assessed relative to methylphenidate (45 and 90 mg) in an inpatient study in individuals experienced with drugs of abuse. Results from this clinical study strated that modafinil produced psychoactive and euphoric effects and feelings consistent with other

9.3 Dependence ntrolled clinical trial, the effects of modafinil withdrawal were monitored following 9 weeks

although sleepiness returned in narcoleptic patients. 10 OVERDOSAGE n clinical trials, a total of 151 protocol-specified doses ranging from 1000 to 1600 mg/day (5 to 8 times the

recommended daily dose of PROVIGIL) have been administered to 32 subjects, including 13 subjects who received doses of 1000 or 1200 mg/day for 7 to 21 consecutive days. In addition, several intentional acute overdoses occurred; the two largest being 4500 mg and 4000 mg laken by two subjects participating in foreign depression studies. None of these study subjects experienced any unexpected or life- threatening effects. Adverse reactions that were reported at these doses included excitation or agitation, insommia, and slight or moderate elevations in hemodynamic parameters. Other observed high-dose effects in clinical studies have included anxiety, irritability, aggressiveness, confusion, nervousness, tremor, palpitations, sleep disturbances, nausea, diarrhea, and decreased prothrombin time. From postmarketing experience, there have been reports of fatal overdoses involving modafinil alone or in combination with other drugs. Symptoms most often accompanying PROVIGIL overdose, alone or in

disorientation, confusion, agitation, anxiety, excitation, and hallucination; digestive changes such as nausea and diarrhea; and cardiovascular changes such as tachycardia, bradycardia, hypertension, and chest pain. Cases of accidental ingestion/overdose have been reported in children as young as 11 months of age. The highest reported accidental ingestion on a mg/kg basis occurred in a three-year-old boy who ingested 800-1000 mg (50-63 mg/kg) of PROVIGIL. The child remained stable. The symptoms associated with overdose in children were similar to those observed in adults. No specific antidote exists for the toxic effects of a PROVIGIL overdose. Such overdoses should be managed 11 DESCRIPTION PROVIGIL (modafinil) is a wakefulness-promoting agent for oral administration. Modafinil is a racemic compound. The chemical name for modafinil is 2-[(diphen

Modafinil is a white to off-white, crystalline powder that is practically insoluble in water and cyclohexane. It is

The mechanism(s) through which modafinil promotes wakefulness is unknown. Modafinil has wake-promoting actions similar to sympathomimetic agents including amphetamine and methylphenidate, although the $Moda finil-induced \ wakefulness \ can \ be \ attenuated \ by \ the \ \alpha 1-adrenergic \ receptor \ antagonist, \ prazosin; \ however \ antagonist, \ however \ ho$

modafinil is inactive in other in vitro assay systems known to be responsive to α -adrenergic agonists such as Modafinil is not a direct- or indirect-acting dopamine receptor agonist. However, in vitro, modafinil binds to the dopamine transporter and inhibits dopamine reuptake. This activity has been associated in vivo with increased extracellular dopamine levels in some brain regions of animals. In genetically engineered mice lacking the dopamine transporter (DAT), modafinil lacked wake-promoting activity, suggesting that this activity was DAT- dependent. However, the wake-promoting effects of modafinil, unlike those of amphetamine, were not

antagonized by the dopamine receptor antagonist haloperidol in rats. In addition, alpha-methyl-p-tyrosine, a dopamine synthesis inhibitor, blocks the action of amphetamine, but does not block locomotor activity induced In the cat, equal wakefulness-promoting doses of methylphenidate and amphetamine increased neuronal activation throughout the brain. Modafinil at an equivalent wakefulness-promoting dose selectively and prominently increased neuronal activation in more discrete regions of the brain. The relationship of this finding

In addition to its wake-promoting effects and ability to increase locomotor activity in animals, modafinil produces psychoactive and euphoric effects, alterations in mood, perception, thinking, and feelings typical of other CNS stimulants in humans. Modafinil has reinforcing properties, as evidenced by its self-administration n monkeys previously trained to self-administer cocaine; modafinil was also partially discriminated as The optical enantiomers of modafinil have similar pharmacological actions in animals. Two major metabolites

Modafinil is a 1:1 racemic compound, whose enantiomers have different pharmacokinetics (e.g., the half-life of R-modafinil is approximately three times that of S- modafinil in adult humans). The enantiomers do not interconvert. At steady state, total exposure to R-modafinil is approximately three times that for S-modafinil.

The trough concentration (C_{min,ss}) of circulating modafinil after once daily dosing consists of 90% of R-modafinil and 10% of S-modafinil. The effective elimination half-life of modafinil after multiple doses is about 15 hours. The enantiomers of modafinil exhibit linear kinetics upon multiple dosing of 200-600 mg/day once daily in healthy volunteers. Apparent steady states of total modafinil and R-modafinil are reached after 2-4 days

2-4 hours. The bioavailability of PROVIGIL tablets is approximately equal to that of an aqueous suspension. The absolute oral bioavailability was not determined due to the aqueous insolubility (-1 mg/mL) of modafinil, which precluded intravenous administration. Food has no effect on overall PROVIGIL bioavailability; however, time to

PROVIGIL has an apparent volume of distribution of approximately 0.9 L/kg. In human plasma, in vitro. modafinil is moderately bound to plasma protein (approximately 60%), mainly to albumin. The potential for interactions of PROVIGIL with highly protein-bound drugs is considered to be minimal.

The major route of elimination is metabolism (approximately 90%), primarily by the liver, with subsequent renal elimination of the metabolites. Urine alkalinization has no effect on the elimination of modafinil. Metabolism occurs through hydrolytic deamidation, S-oxidation, aromatic ring hydroxylation, and glucuronide conjugation. Less than 10% of an administered dose is excreted as the parent compound. In a clinical study using radiolabeled modafinil, a total of 81% of the administered radioactivity was recovered in 11 days postdose, predominantly in the urine (80% vs. 1.0% in the feces). The largest fraction of the drug in urine was modafinil acid, but at least six other metabolites were present in lower concentrations. Only two metabolites reach appreciable concentrations in plasma, i.e., modafinil acid and modafinil sulfone. In preclinical models, modafinil sulfone, 2-[(diphenylmethyl)sulfonyl]acetic acid and 4-hydroxy modafinil, were mg/kg/day was associated with the concentrations of the concentration of the conce inactive or did not appear to mediate the arousal effects of modafinil.

In adults, decreases in trough levels of modafinil have sometimes been observed after multiple weeks of dosing, suggesting auto-induction, but the magnitude of the decreases and the inconsistency of their occurrence suggest that their clinical significance is minimal. Significant accumulation of modafinil sulfone has been observed after multiple doses due to its long elimination half-life of 40 hours. Auto-induction of metabolizing enzymes, most importantly cytochrome P-450 CYP3A4, has also been observed in vitro after ncubation of primary cultures of human hepatocytes with modafinil and in vivo after extended administration

Specific Populations A slight decrease (approximately 20%) in the oral clearance (CL/F) of modafinil was observed in a single dose study at 200 mg in 12 subjects with a mean age of 63 years (range 53 – 72 years), but the change was considered not likely to be clinically significant. In a multiple dose study (300 mg/day) in 12 patients with a mean age of 82 years (range 67 - 87 years), the mean levels of modafinil in plasma were approximately two times those historically obtained in matched younger subjects. Due to potential effects from the multiple concomitant medications with which most of the patients were being treated, the apparent difference in modafinil pharmacokinetics may not be attributable solely to the effects of aging. However, the results suggest that the clearance of modafinil may be reduced in the elderly [see Dosage and Administration (2.4) and Use in Specific Populations (8.5)].

The pharmacokinetics of modafinil are not affected by gender.

... a single 2006 and minorating study, severe critorial remainal remainabilite in the patients of the patients of their baseline sever about the criteria they were to apply when rating patients. The patients of the remainabilite in the patients of their baseline sever about the criteria they were to apply when rating patients. In a single dose 200 mg modafinil study, severe chronic renal failure (creatinine clearance <20 mL/min) did the patients other than a measure of their baseline severity. Evaluators were not given any specific guidance

The pharmacokinetics and metabolism of modafinil were examined in patients with cirrhosis of the liver (6 men and 3 women). Three patients had stage B or B+ cirrhosis and 6 patients had stage C or C+ cirrhosis (per the Child-Pugh score criteria). Clinically 8 of 9 patients were icteric and all had ascites. In these patients, the oral

to normal patients [see Dosage and Administration (2.3) and Use in Specific Populations (8.6)]. **Drug Interactions** In vitro data demonstrated that modafinil weakly induces CYP1A2, CYP2B6, and possibly CYP3A activities in a concentration-related manner and that CYP2C19 activity is reversibly inhibited by modafinil. In vitro data also demonstrated that modafinil produced an apparent concentration-related suppression of expression of CYP2C9

Potential Interactions with Drugs That Inhibit, Induce, or Are Metabolized by Cytochrome P450 Isoenzymes The existence of multiple pathways for modafinil metabolism, as well as the fact that a non-CYP-related pathway is the most rapid in metabolizing modafinil, suggest that there is a low probability of substantive effects on the overall pharmacokinetic profile of PROVIGIL due to CYP inhibition by concomitant medications. However, due to the partial involvement of CYP3A enzymes in the metabolic elimination of modafinil, coadministration

of potent inducers of CYP3A4/5 (e.g., carbamazepine, phenobarbital, rifampin) or inhibitors of CYP3A4/5 (e.g., ketoconazole, erythromycin) could alter the plasma concentrations of modafinil. The Potential of PROVIGIL to Alter the Metabolism of Other Drugs by Enzyme Induction or Inhibition Drugs Metabolized by CYP3A4/5 In vitro data demonstrated that modafinil is a weak inducer of CYP3A activity in a concentration-related manner. Therefore, the blood levels and effectiveness of drugs that are substrates for CYP3A

after initiation of concomitant treatment with PROVIGIL [see Drug Interactions (7)]. Ethinyl Estradiol - Administration of modafinil to female volunteers once daily at 200 mg/day for 7 days followed by 400 mg/day for 21 days resulted in a mean 11% decrease in mean G_{mg} and 18% decrease in mean AUC₀₋₂₄ of ethinyl estradiol (EE2; 0.035 mg; administered orally with norgestimate). There was no apparent change in the elimination rate of ethinyl estradiol. Triazolam - In the drug interaction study between PROVIGIL and ethinyl estradiol (EE₂), on the same days as those for the plasma sampling for EE $_2$ pharmacokinetics, a single dose of triazolam (0.125 mg) was also administered. Mean C_{max} and $AUC_{0-\infty}$ of triazolam were decreased by 42% and 59%,

respectively, and its elimination half-life was decreased by approximately an hour after the modafinil

enzymes (e.g., steroidal contraceptives, cyclosporine, midazolam, and triazolam) may be reduced

Cyclosporine - One case of an interaction between modafinil and cyclosporine, a substrate of CYP3A4, has been reported in a 41 year old woman who had undergone an organ transplant. After one month of administration of 200 mg/day of modafinil, cyclosporine blood levels were decreased by 50%. The interaction was postulated to be due to the increased metabolism of cyclosporine, since no other factor expected to affect the disposition of the drug had changed. Midazolam - In a clinical study, concomitant administration of armodafinil 250 mg resulted in a reduction in systemic exposure to midazolam by 32% after a single oral dose (5 mg) and 17% after

a single intravenous dose (2 mg). Quetiapine - In a separate clinical study, concomitant administration of armodafinil 250 mg with quetiapine (300 mg to 600 mg daily doses) resulted in a reduction in the mean systemic exposure of quetiapine by approximately 29% Drugs Metabolized by CYP1A2

o In vitro data demonstrated that modafinil is a weak inducer of CYP1A2 in a concentration-related manner. However, in a clinical study with armodafinil using caffeine as a probe substrate, no significant effect on CYP1A2 activity was observed. Drugs Metabolized by CYP2B6 In vitro data demonstrated that modafinil is a weak inducer of CYP2B6 activity in a concentration-

 Drugs Metabolized by CYP2C9 In vitro data demonstrated that modafinil produced an apparent concentration- related suppression of expression of CYP2C9 activity suggesting that there is a potential for a metabolic interaction

between modafinil and the substrates of this enzyme (e.g., S-warfarin and phenytoin) [see Drug Warfarin: Concomitant administration of modafinil with warfarin did not produce significant changes in the pharmacokinetic profiles of R- and S-warfarin. However, since only a single dose of warfarin was tested in this study, an interaction cannot be ruled out [see Drug Interactions (7)]. Drugs Metabolized by CYP2C19

In vitro data demonstrated that modafinil is a reversible inhibitor of CYP2C19 activity. CYP2C19 is also reversibly inhibited, with similar potency, by a circulating metabolite, modafinil sulfone. Although the maximum plasma concentrations of modafinil sulfone are much lower than those of parent modafinil, the combined effect of both compounds could produce sustained partial inhibition of the enzyme. Therefore, exposure to some drugs that are substrates for CYP2C19 (e.g., phenytoir with PROVIGIL [see Drug Interactions (7)]. In a clinical study, concomitant administration of armodafinil 400 mg resulted in a 40% increase n exposure to omeprazole after a single oral dose (40 mg), as a result of moderate inhibition of CYP2C19 activity.

Interactions with CNS Active Drugs Concomitant administration of modafinil with methylphenidate or dextroamphetamine produced n significant alterations on the pharmacokinetic profile of modafinil or either stimulant, even though ne absorption of modafinil was delayed for approximately one hou Concomitant modafinil or clomipramine did not alter the pharmacokinetic profile of eithe drug; however, one incident of increased levels of clomipramine and its active metabolit clomipramine was reported in a patient with narcolepsy during treatment with modafinil CYP2C19 also provides an ancillary pathway for the metabolism of certain tricyclic antidepressan (e.g., clomipramine and desipramine) and selective serotonin reuptake inhibitors that are primaril metabolized by CYP2D6. In tricyclic-treated patients deficient in CYP2D6 (i.e., those who are poor metabolizers of debrisoquine; 7-10% of the Caucasian population; similar or lower in other populations), the amount of metabolism by CYP2C19 may be substantially increased. PROVIGIL

y cause elevation of the levels of the tricyclics in this subset of patients [see Drug Interactions Concomitant administration of armodafinil with quetiapine reduced the systemic exposure of An in vitro study demonstrated that armodafinil is a substrate of P-glycoprotein. The impact of inhibition of P-glycoprotein is not known.

NONCLINICAL TOXICOLOGY 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

ogenicity studies were conducted in which modafinil (a mixture of R- and S- modafinil) was administered in the diet to mice for 78 weeks and to rats for 104 weeks at doses of 6, 30, and 60 mg/kg/day. The highest doses studied were associated with plasma modafinil exposures (AUC) less than that in humans at the recommended human dose (RHD) of PROVIGIL (200 mg/day). There was no evidence of tumorigenesis $associated\ with\ moda finil\ administration\ in\ these\ studies.\ However,\ the\ mouse\ study\ was\ inadequate\ because$ associated with modellin administration in teles stations. However, in mouse acroinogenicity study was inadequate because the high dose was not a maximum tolerated dose (MTD). In a mouse carcinogenicity study in which armodafinil (the R-enantiomer of modafinil) was administered at oral doses of up to 300 mg/kg/day in males and 100 mg/ kg/day in females for approximately 2 years, no tumorigenic effects were observed. The highest doses studied which were considered MTDs, were associated with plasma armodafinil exposures less than (females) or 2 times (males) that in humans at the RHD of PROVIGIL.

Modafinil was negative in a series of in vitro (i.e., bacterial reverse mutation, mouse lymphoma tk, chromosomal aberration in human lymphocytes, cell transformation in BALB/3T3 mouse embryo cells) or in vivo (mouse bone marrow micronucleus) assays.

Oral administration of modafinil (doses of up to 480 mg/kg/day) to male and female rats prior to and throughout mating, and continuing in females through day 7 of gestation produced an increase in the time to mate at the highest dose; no effects were observed on other fertility or reproductive parameters. The no-effect dose of 240 mg/kg/day was associated with a plasma modafinil AUC less than that in humans at the RHD of PROVIGIL. 14.1 Narcolepsy
The effectiveness of PROVIGIL in improving wakefulness in adult patients with excessive sleepiness

associated with narcolepsy was established in two US 9-week, multi-center, placebo-controlled, parallel-group, double-blind studies of outpatients who met the criteria for narcolepsy. A total of 558 patients were randomizet to receive PROVIGIL 200 or 400 mg/day, or placebo. The criteria for narcolepsy include either: 1) recurren daytime naps or lapses into sleep that occur almost daily for at least three months, plus sudden bilateral loss of postural muscle tone in association with intense emotion (cataplexy); or 2) a complaint of excessive sleepiness or sudden muscle weakness with associated features: sleep paralysis, hypnagogic hallucinations, automatic behaviors, disrupted major sleep episode; and polysomnography demonstrating one of the following: sleep latency less than 10 minutes or rapid eye movement (REM) sleep latency less than 20 minutes. For entry into these studies, all patients were required to have objectively documented excessive daytime sleepiness, via a Multiple Sleep Latency Test (MSLT) with two or more sleep onset REM periods and the absence of any other clinically significant active medical or psychiatric disorder. The MSLT, an objective polysomographic assessment of the patient's ability to fall asleep in an unstimulating environment, measured latency (in minutes) to sleep onset averaged over 4 test sessions at 2-hour intervals. For each test session, the subject was told to ie quietly and attempt to sleep. Each test session was terminated after 20 minutes if no sleep occurred or 15 minutes after sleep onset. In both studies, the primary measures of effectiveness were: 1) sleep latency, as assessed by the Maintenance All rights reserved.

of Wakefulness Test (MWT); and 2) the change in the patient's overall disease status, as measured by the Clinical Global Impression of Change (CGI-C). For a successful trial, both measures had to show statistically The MWT measures latency (in minutes) to sleep onset averaged over 4 test sessions at 2 hour intervals

without using extraordinary measures. Each test session was terminated after 20 minutes if no sleep occurre or 10 minutes after sleep onset. The CGI-C is a 7-point scale, centered at *No Change*, and ranging from *Ver Much Worse* to *Very Much Improved*. Patients were rated by evaluators who had no access to any data abou for both the 200 mg and 400 mg doses compared to placebo. Patients treated with PROVIGIL showed a statistically significantly enhanced ability to remain awake on the MWT at each dose compared to placebo at final visit (Table 2). A statistically significantly greater number of patients treated with PROVIGIL at each dose

clearance of modafinil was decreased by about 60% and the steady state concentration was doubled compared showed improvement in overall clinical condition as rated by the CGI-C scale at final visit (Table 3). Nighttime sleep measured with polysomnography was not affected by the use of PROVIGIL. 14.2 Obstructive Sleep Apnea (OSA) The effectiveness of PROVIGIL in improving wakefulness in patients with excessive sleepiness associated with OSA was established in two multi-center, placebo-controlled clinical studies of patients who met the criteria for OSA. The criteria include either: 1) excessive sleepiness or insomnia, plus frequent episodes of impaired breathing during sleep, and associated features such as loud snoring, morning headaches and dry mouth upor awakening; or 2) excessive sleepiness or insomnia and polysomnography demonstrating one of the following more than five obstructive apneas, each greater than 10 seconds in duration, per hour of sleep and one or more

> desaturation in association with the apneas. In addition, for entry into these studies, all patients were require to have excessive sleepiness as demonstrated by a score ≥10 on the Epworth Sleepiness Scale (ESS), despite treatment with continuous positive airway pressure (CPAP). Evidence that CPAP was effective in reducing episodes of apnea/hypopnea was required along with documentation of CPAP use In the first study, a 12-week trial, a total of 327 patients with OSA were randomized to rec 200 mg/day, PROVIGIL 400 mg/day, or matching placebo. The majority of patients (80%) were fully complian with CPAP, defined as CPAP use greater than 4 hours/night on > 70% of nights. The remainder were partially CPAP compliant, defined as CPAP use < 4 hours/night on >30% of nights. CPAP use continued throughou the study. The primary measures of effectiveness were 1) sleep latency, as assessed by the Maintenance of

of the following: frequent arousals from sleep associated with the apneas, bradytachycardia, and arterial oxyger

Wakefulness Test (MWT) and 2) the change in the patient's overall disease status, as measured by the Clinical

Global Impression of Change (CGI-C) at the final visit [see Clinical Studies (14.1) for a description of these

Patients treated with PROVIGIL showed a statistically significant improvement in the ability to remain awake compared to placebo-treated patients as measured by the MWT at final visit (Table 2). A statistically significant greater number of patients treated with PROVIGIL showed improvement in overall clinical condition as rated by the CGI-C scale at final visit (Table 3). The 200 mg and 400 mg doses of PROVIGIL produced statistically significant effects of similar magnitude on the MWT, and also on the CGI-C.

In the second study, a 4-week trial, 157 patients with OSA were randomized to receive PROVIGIL 400 mg/day

or placebo. Documentation of regular CPAP use (at least 4 hours/night on 70% of nights) was required for all patients. The primary measure of effectiveness was the change from baseline on the ESS at final visit. The baseline ESS scores for the PROVIGIL and placebo groups were 14.2 and 14.4, respectively. At week 4, the ESS was reduced by 4.6 in the PROVIGIL group and by 2.0 in the placebo group, a difference that was Nighttime sleep measured with polysomnography was not affected by the use of PROVIGIL. 14.3 Shift Work Disorder (SWD)

The effectiveness of PROVIGIL in improving wakefulness in patients with excessive sleepiness associated with SWD was demonstrated in a 12-week placebo-controlled clinical trial. A total of 209 patients with chronic SWD were randomized to receive PROVIGIL 200 mg/day or placebo. All patients met the criteria for chronic SWD. The criteria include: 1) either, a) a primary complaint of excessive sleepiness or insomnia which is temporally associated with a work period (usually night work) that occurs during the habitual sleep phase, or b) polysomnography and the MSLT demonstrate loss of a normal sleep-wake pattern (i.e., disturbe chronobiological rhythmicity); and 2) no other medical or mental disorder accounts for the symptoms, and 3 the symptoms do not meet criteria for any other sleep disorder producing insomnia or excessive sleepines: (e.g., time zone change [jet lag] syndrome). It should be noted that not all patients with a complaint of sleepiness who are also engaged in shift work meet the criteria for the diagnosis of SWD. In the clinical trial, only patients who were symptomatic for at least

3 months were enrolled. Enrolled patients were also required to work a minimum of 5 night shifts per month, have excessive sleepiness at the time of their night shifts (MSLT score < 6 minutes), and have daytime insomnia documented by a daytime The primary measures of effectiveness were 1) sleep latency, as assessed by the MSLT performed during a simulated night shift at the final visit and 2) the change in the patient's overall disease status, as measured by

the CGI-C at the final visit [see Clinical Studies (14.1) for a description of these measures.]. Patients treated with PROVIGIL showed a statistically significant prolongation in the time to sleep onset compared to placebo-treated patients, as measured by the nighttime MSLT at final visit (Table 2). A statistically significant greater number of patients treated with PROVIGIL showed improvement in overall clinical condition as rated by the CGI-C scale at final visit (Table 3).

Daytime sleep measured with polysomnography was not affected by the use of PROVIGIL Table 2. Average Baseline Sleep Latency and Change from Baseline at Final Visit (MWT and MSLT in

Disorder	Measure	PROVIGIL 200 mg*		PROVIGIL 400 mg*		Placebo	
		Baseline	Change from Baseline	Baseline	Change from Baseline	Baseline	Change from Baseline
Narcolepsy I	MWT	5.8	2.3	6.6	2.3	5.8	-0.7
Narcolepsy II	MWT	6.1	2.2	5.9	2.0	6.0	-0.7
OSA	MWT	13.1	1.6	13.6	1.5	13.8	-1.1
SWD	MSLT	2.1	1.7	-	-	2.0	0.3
					s but SWD, whi f Patients Who		,
Disorder		PROVIGIL 200 mg*		PROVIGIL 400 mg*		Placebo	
Narcolepsy I		64%		72%		37%	
Narcolepsy II		58%		60%		38%	
OSA		61%		68%		37%	
SWD		74%				36%	

Significantly different than placebo for all trials (p<0.01 16 HOW SUPPLIED/STORAGE AND HANDLING 16.1 How Supplied finil) tablets are available as follows

100 mg: Each capsule-shaped, white to off white tablet is debossed with "PROVIGIL" on one side and NDC 60505-4851-3 - Bottles of 30 200 mg: Each capsule-shaped, white to off white, scored tablet is debossed with "PROVIGIL" on one side and "200 MG" on the other.

NDC 60505-4852-3 - Bottles of 30 **16.2 Storage** Store at 20°C - 25°C (68°F - 77°F)

17 PATIENT COUNSELING INFORMATION Advise the patient to read the FDA-approved patient labeling (Medication Guide)

Allergic Reactions Advise patients to stop taking PROVIGIL and to notify their physician right away if they develop a rash, hives, **Driving and Dangerous Activities** Advise patients not to alter their previous behavior with regard to potentially dangerous activities (e.g., driving

operating machinery) or other activities requiring appropriate levels of wakefulness, until and unless treatment with PROVIGIL has been shown to produce levels of wakefulness that permit such activities. Advise patients that PROVIGIL is not a replacement for sleep. Continuing Previously Prescribed Treatments
Inform patients that it may be critical that they continue to take their previously prescribed treatments (e.g.,

patients with OSA receiving CPAP should continue to do so). <u>Discontinuing Drug Due to Adverse Reactions</u>
Advise patients to stop taking PROVIGIL and contact their physician right away if they experience chest pain,

rash, depression, anxiety, or signs of psychosis or mania. Advise patients to notify their physician if they become pregnant or intend to become pregnant during therapy. Caution patients regarding the potential increased risk of pregnancy when using steroidal contraceptives

(including depot or implantable contraceptives) with PROVIGIL and for one month after discontinuation of Advise patients to notify their physician if they are breastfeeding an infant.

<u>Concomitant Medication</u>
Advise patients to inform their physician if they are taking, or plan to take, any prescription or over-the-counter drugs, because of the potential for interactions between PROVIGIL and other drugs

Advise patients that the use of PROVIGIL in combination with alcohol has not been studied. Advise patients that it is prudent to avoid alcohol while taking PROVIGIL Dispense with Medication Guide available at https://www.apotex.com/products/us/mg.asp Manufactured for

ApoPharma is a registered trademark of Apotex Inc

FROM OUTSIDE EDGES

low white blood count

painful menstrual periods

go away while taking PROVIGIL

effects to FDA at 1-800-FDA-1088.

What are the ingredients in PROVIGIL?

Apotex Corp., Weston, Florida 33326 USA

ApoPharma is a registered trademark of Apotex Inc.

Active Ingredient: modafinil

Manufactured for:

Administration.

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Revised: February 2025

How should I store PROVIGIL?

(20° C and 25° C).

Tell your doctor if you get any side effect that bothers you or that does not

These are not all the side effects of PROVIGIL. For more information, ask

Some effects of PROVIGIL on the brain are the same as other medicines

called "stimulants". These effects may lead to abuse or dependence on

Call your doctor for medical advice about side effects. You may report side

• Store PROVIGIL at room temperature between 68° F and 77° F

Keep PROVIGIL and all medicines out of the reach of children.

General information about the safe and effective use of PROVIGIL

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use PROVIGIL for a condition for which it

was not prescribed. Do not give PROVIGIL to other people, even if they

have the same symptoms you have. It may harm them and it is against

This Medication Guide summarizes the most important information about

PROVIGIL. If you would like more information, talk with your doctor. You

can ask your doctor or pharmacist for information about PROVIGIL that

is written for health professionals. For more information, call 1-800-706-

Inactive Ingredients: lactose monohydrate, microcrystalline cellulose,

pregelatinized starch, croscarmellose sodium, povidone, and magnesium