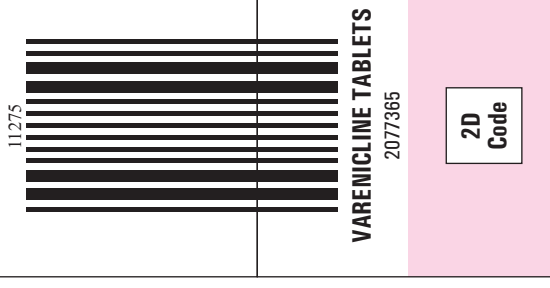




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HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use VARENICLINE TABLETS safely and effectively. See full prescribing information for VARENICLINE TABLETS.
VARENICLINE TABLETS, for oral use
Initial U.S. Approval: 2006
Indications and Usage: Varenicline tablets are a nicotine receptor partial agonist indicated for use as an aid to smoking cessation treatment.

DOSAGE AND ADMINISTRATION: Begin varenicline tablets during one week before the patient is to stop smoking. Alternatively, the patient can begin varenicline tablets during the quit attempt.
Dosing: 1 mg twice daily for 12 weeks.
Administration: Take with or without food.

Warnings and Precautions: Neuropsychiatric Adverse Events: Promoting reports of serious or clinically significant neuropsychiatric adverse events have included changes in mood, including depression and mania, psychosis, hallucinations, paranoia, delusions, homicidal ideation, aggression, hostility, agitation, anxiety, and panic, as well as suicidal ideation, suicide attempt, and completed suicide.
Other Smoking Cessation Therapies: Drug interactions in combination with other smoking cessation therapies have not been established.

ADVERSE REACTIONS: In clinical trials, the most common adverse events reported in patients treated with varenicline were nausea, abnormal tiredness, or dizziness.
Other Smoking Cessation Therapies: Drug interactions in combination with other smoking cessation therapies have not been established.

CONTRAINDICATIONS: History of serious hypersensitivity or skin reactions to varenicline tablets.
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DESCRIPTION: Varenicline is a partial agonist at the alpha4beta2 nicotinic acetylcholine receptor. It is a white to off-white powder.
Chemical Structure: A chemical structure diagram of varenicline is shown.

CLINICAL PHARMACOLOGY: Pharmacokinetics: Varenicline is rapidly absorbed and reaches peak plasma concentrations within 1 to 2 hours.
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Accidental Injury: Accidental injuries (e.g., traffic accidents) have been reported.
Cardiovascular Events: Patients with underlying cardiovascular (CV) disease may be at increased risk of CV events.
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Dimensions: 485 x 640 mm (Book Fold: 35 x 35 mm)
Colour: Black
Country: USA
Spec: Bible Paper 28 GSM



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SMOKING CESSATION THERAPY

When you try to quit smoking, with or without varenicline tablets, you may have symptoms that may be due to nicotine withdrawal, including:
• urge to smoke
• frustration
• depressed mood
• anger
• trouble sleeping
• feeling anxious
• irritability
• difficulty concentrating
• restlessness
• increased heart rate
• decreased appetite
• weight gain

Some people have even experienced suicidal thoughts when trying to quit smoking without medication. Sometimes quitting smoking can lead to worsening of mental health problems that you already have, such as depression.

Some people have had serious side effects while taking varenicline tablets to help them quit smoking, including:
New or worse mental health problems, such as changes in behavior or thinking, aggression, hostility, agitation, depressed mood, or suicidal thoughts or actions. Some people had these symptoms when they began taking varenicline tablets, and others developed them after several weeks of treatment, or after stopping varenicline tablets. These symptoms happened more often in people who had a history of mental health problems before taking varenicline tablets, than in people without a history of mental health problems.

Stop taking varenicline tablets and call your healthcare provider right away if you, your family, or caregiver notice any of these symptoms. Work with your healthcare provider to decide whether you should continue to take varenicline tablets. In many people, these symptoms went away after stopping varenicline tablets, but in some people symptoms continued after stopping varenicline tablets. It is important for you to follow-up with your healthcare provider until your symptoms go away.

Before taking varenicline tablets, tell your healthcare provider if you have ever had depression or other mental health problems. You should also tell your healthcare provider about any symptoms you had during other times you tried to quit smoking, with or without varenicline tablets.

What are varenicline tablets?
Varenicline tablets are a prescription medicine to help people stop smoking.
Varenicline tablets are safe and effective when used with other stop smoking medicines.

Who should not take varenicline tablets?
Do not take varenicline tablets if you have had a serious allergic or skin reaction to varenicline tablets. Symptoms may include:
• swelling of the face, mouth, tongue, lips, gums, throat or neck
• trouble breathing
• rash, with peeling skin
• blisters in your mouth

What should I tell my healthcare provider before taking varenicline tablets?
See "What is the most important information I should know about varenicline tablets?"
Before you take varenicline tablets, tell your healthcare provider if you:

- use other treatments to quit smoking. Using varenicline tablets with a nicotine patch may cause nausea, vomiting, headache, dizziness, upset stomach, and tiredness to happen more often than if you just use a nicotine patch alone.
• have kidney problems or get kidney dialysis. Your healthcare provider may prescribe a lower dose of varenicline tablets for you.
• have a history of seizures
• drink alcohol
• have heart or blood vessel problems.
• have any other medical conditions
• are pregnant or plan to become pregnant.
• are breastfeeding. It is not known if varenicline passes into breast milk. If you breastfeed and take varenicline tablets, monitor your baby for seizures as well as spitting up or vomiting more than normal.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins and herbal supplements. Your healthcare provider may need to change the dose of some of your medicines when you stop smoking.

You should not use varenicline tablets while using other medicines to quit smoking. Tell your healthcare provider if you use other treatments to quit smoking. Know the medicines you take. Keep a list of them with you to show your healthcare provider and pharmacist when you get a new medicine.

How should I take varenicline tablets?
• There are 3 ways that you can use varenicline tablets to help you quit smoking. Talk to your healthcare provider about the following 3 ways to use varenicline tablets:

- Choose a quit date when you will stop smoking. Start taking varenicline tablets 1 week (7 days) before your quit date. Take varenicline tablets for 12 weeks.
OR
• Start taking varenicline tablets before you choose a quit date. Pick a date to quit smoking that is between days 8 and 35 of treatment. Take varenicline tablets for 12 weeks.
OR
• If you are sure that you are not able or willing to quit smoking right away, start taking varenicline tablets and reduce smoking during the first 12 weeks of treatment, as follows:

Reduce your smoking to reach one-half of your starting daily number of cigarettes.
Example: If you usually smoke 20 cigarettes each day, reduce your smoking to 10 cigarettes each day during weeks 1 through 4.

Reduce your smoking to reach one-quarter of your starting daily number of cigarettes.
Example: If you usually smoked 20 cigarettes each day, reduce your smoking to 5 cigarettes each day during weeks 5 through 8.

Keep reducing your smoking until you are no longer smoking (you reach zero cigarettes each day).

Aim to quit by the end of the 12th week of treatment, or sooner if you feel ready. Continue to take varenicline tablets for another 12 weeks, for a total of 24 weeks of treatment.

Starting varenicline tablets before your quit date gives varenicline tablets time to build up in your body. You can keep smoking during this time. Take varenicline tablets exactly as prescribed by your healthcare provider.

Varenicline tablet comes as a pink tablet (0.5 mg) and a yellow tablet (1 mg). You start with the pink tablet and then you go to the yellow tablet. See the chart below for dosing instructions for adults.

Day 1 to Day 3
• Pink tablet (0.5 mg)
• Take 1 tablet each day

Day 4 to Day 7
• Pink tablet (0.5 mg)
• Take 1 in the morning and 1 in the evening

Day 8 to end of treatment
• Yellow tablet (1 mg)
• Take 1 in the morning and 1 in the evening

• Make sure that you try to stop smoking on your quit date. If you slip-up and smoke, try again. Some people need to take varenicline tablets for a few weeks for varenicline tablets to work best.
• Most people will take varenicline tablets for up to 12 weeks. If you



11212

have completely quit smoking by 12 weeks, your healthcare provider may prescribe varenicline tablets for another 12 weeks to help you stay cigarette-free.

- Take varenicline tablets after eating and with a full glass (8 ounces) of water.
- This dosing schedule may not be right for everyone. Talk to your healthcare provider if you are having side effects such as nausea, strange dreams, or sleep problems. Your healthcare provider may want to reduce your dose.
- If you miss a dose of varenicline tablets, take it as soon as you remember. If it is almost time for your next dose, skip the missed dose. Just take your next dose at your regular time.

What should I avoid while taking varenicline tablets?

- Use caution when driving or operating machinery until you know how varenicline tablets affects you. Varenicline tablets may make you feel sleepy, dizzy, or have trouble concentrating, making it hard to drive or perform other activities safely.
- Decrease the amount of alcoholic beverages that you drink during treatment with varenicline tablets until you know if varenicline tablet affects your ability to tolerate alcohol. Some people have experienced the following when drinking alcohol during treatment with varenicline tablets:
 - increased drunkenness (intoxication)
 - unusual or sometimes aggressive behaviour
 - no memory of things that have happened

What are the possible side effects of varenicline tablets?

Several side effects of varenicline tablets may include:

- See "What is the most important information I should know about varenicline tablets?"
- Seizures. Some people have had seizures during treatment with varenicline tablets. In most cases, the seizures have happened during the first month of treatment with varenicline tablets. If you have a seizure during treatment with varenicline tablets, stop taking varenicline tablets and contact your healthcare provider right away.
- New or worse heart or blood vessel (cardiovascular) problems, most or in people who already have cardiovascular problems. Tell your healthcare provider if you have any changes in symptoms during treatment with varenicline tablets.

Get emergency medical help right away if you have any of the following symptoms of a heart attack, including:

- chest discomfort (uncomfortable pressure, squeezing, fullness or pain) that lasts more than a few minutes, or that goes away and comes back
- pain or discomfort in one or both arms, back, neck, jaw or stomach
- shortness of breath, sweating, nausea, vomiting, or feeling lightheaded associated with chest discomfort

- Sleepwalking** can happen with varenicline tablets, and can sometimes lead to behavior that is harmful to you or other people, or to property. Stop taking varenicline tablets and tell your healthcare provider if you start sleepwalking.

- Allergic reactions** can happen with varenicline tablets. Some of these allergic reactions can be life-threatening.

- Serious skin reactions**, including rash, swelling, redness, and peeling of the skin. Some of these skin reactions can become life-threatening.

Stop taking varenicline tablets and get medical help right away if you have any of the following symptoms:

- swelling of the face, mouth (tongue, lips, and gums), throat or neck
- trouble breathing
- rash with peeling skin
- blisters in your mouth

The most common side effects of varenicline tablets include:

- nausea
- sleep problems (trouble sleeping or vivid, unusual, or strange dreams)
- constipation
- gas
- vomiting

Tell your healthcare provider about side effects that bother you or that do not go away.

These are not all the side effects of varenicline tablets. Ask your healthcare provider or pharmacist for more information.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

How should I store varenicline tablets?

- Store varenicline tablets at room temperature, between 68° to 77°F (20° to 25°C).

Keep varenicline tablets and all medicines out of the reach of children.

General information about the safe and effective use of varenicline tablets.

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use varenicline tablets for a condition for which it was not prescribed. Do not give your varenicline tablets to other people, even if they have the same symptoms that you have. It may harm them. If you would like more information, talk with your healthcare provider. You can ask your healthcare provider or pharmacist for information about varenicline tablets that is written for healthcare professionals. For more information about varenicline tablets and tips on how to quit smoking, call 1-866-495-1095. If you are motivated to quit smoking and did not succeed during prior varenicline tablets treatment for reasons other than side effects, or if you returned to smoking after treatment, speak with your healthcare provider about whether another course of varenicline tablets therapy may be right for you.

What are the ingredients in varenicline tablets?

Active ingredient: varenicline tartrate

Inactive ingredients: anhydrous dibasic calcium phosphate, croscarmellose sodium, stearic acid. The film coating contains hypromellose, iron oxide red, iron oxide yellow, polyethylene glycol, titanium dioxide and tractein.

Medication Guide available at <http://camberpharma.com/medication-guides>.

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were followed for 40 weeks post-treatment. Most patients enrolled in these trials were white (79.96%). All studies enrolled about equal numbers of men and women. The average age of patients in these studies was 43 years. Patients on average had smoked about 21 cigarettes per day for an average of approximately 25 years. Patients set a date to stop smoking/target quit date with dosing starting 1 week before the date.

Seven additional studies evaluating the efficacy of varenicline in patients with cardiovascular disease, in patients with chronic obstructive pulmonary disease (COPD) (see Clinical Studies (14.2)), in patients instructed to select their quit date within days 8 and 35 of treatment (see Clinical Studies (14.4)), in patients with major depressive disorder (see Clinical Studies (14.5)), patients who had made a previous attempt to quit smoking with varenicline, and either did not succeed in quitting or relapsed after treatment (see Clinical Studies (14.6)), in patients without or with a history of psychiatric disorder enrolled in a postmarketing neuro-psychiatric safety outcome trial (see Warnings and Precautions (5.1), Clinical Studies (14.8)), and in patients who were not able or willing to quit abruptly and were instructed to quit gradually (see Clinical Studies (14.5)).

In all studies, patients were provided with an educational booklet on smoking cessation and received up to 10 minutes of smoking cessation counseling at each weekly treatment visit according to Agency for Healthcare Research and Quality guidelines.

14.1. Initiation of Abstinence

Study A
This was a 16-week dose-ranging study comparing varenicline to placebo. This study provided initial evidence that varenicline at a total dose of 1 mg per day or 2 mg per day was effective as an aid to smoking cessation.

Study B
This study of 627 patients compared varenicline 1 mg per day and 2 mg per day with placebo. Patients were treated for 12 weeks including one week titration and then were followed for 40 weeks post-treatment. Varenicline was given in two divided doses daily. Each dose of varenicline was given in two different regimens, with and without initial dose titration, to explore the effect of different dosing regimens on tolerability. For the titrated groups, dosing was titrated up over the course of one week, with full dosage achieved starting with the second week of dosing. The titrated and non-titrated groups were pooled for efficacy analyses.

Study C
Forty-five percent of patients receiving varenicline 1 mg per day and 51% of patients receiving 2 mg per day (1 mg twice daily) had CO confirmed abstinence during weeks 9 through 12 compared to 12% of patients in the placebo group (Figure 1). In addition, 53% of 1 mg per day group and 51% of 2 mg per day group were continuously abstinent from one week after T0 through the end of treatment as compared to 5% of the placebo group.

Study D
The twelve-week study of 312 patients examined the effect of a patient-directed dosing strategy of varenicline or placebo. After an initial one-week titration to a dose of 0.5 mg twice daily, patients could adjust their dosing as often as they wished between 1.5 mg once daily and 1 mg twice daily until they reached the maximum allowable dose at any time during the study. For 44% of patients, the maximal dose selected was 1 mg twice daily, for slightly over half of the study participants, the maximal dose selected was 1 mg twice daily.

Study E
In the patients treated with varenicline, 40% had CO confirmed continuous abstinence during weeks 9 through 12 compared to 12% in the placebo group. In addition, 29% of the varenicline group were continuously abstinent from one week after T0 through the end of treatment as compared to 5% of the placebo group.

Study A and Study B
These identical double-blind studies compared varenicline 2 mg per day, bupropion sustained-release (SR) 150 mg twice daily, and placebo. Patients were treated for 12 weeks and then were followed for 40 weeks post-treatment. The varenicline dosage of 1 mg twice daily was achieved within 3 to 5 days followed by 150 mg twice daily for the next 4 days. The bupropion SR dosage of 150 mg twice daily was achieved using a 3-day titration of 150 mg once daily. Study A enrolled 1022 patients and Study B enrolled 1022 patients. Patients discontinued for bupropion treatment or patients who had previously used bupropion were excluded.

Study C
In Study C, patients treated with varenicline had a superior rate of CO confirmed abstinence during week 9 through 12 (14%) compared to patients treated with placebo (17%). The bupropion SR quit rate was also superior to placebo. In addition, 29% of the varenicline group were continuously abstinent from one week after T0 through the end of treatment as compared to 17% of the placebo group and 22% of the bupropion SR group.

Study D
In Study D, patients treated with varenicline had a superior rate of CO confirmed abstinence during week 9 through 12 (14%) compared to patients treated with bupropion SR (21%) or placebo (18%). The bupropion SR quit rate was also superior to placebo. In addition, 29% of the varenicline group were continuously abstinent from one week after T0 through the end of treatment as compared to 17% of the placebo group and 21% of the bupropion SR group.

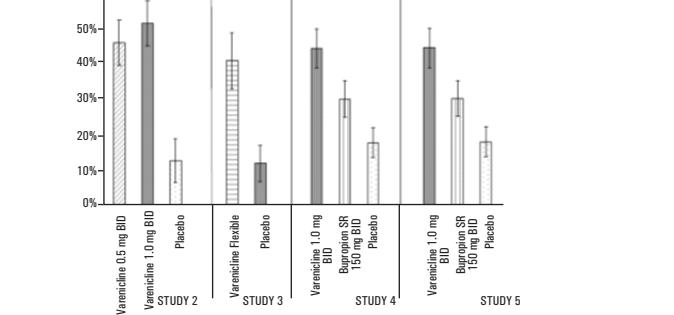


Figure 1. CO confirmed Abstinence (95% confidence interval), Studies in Patients with Major Depressive Disorder (MDD)

Study	Weeks 9 through 12 (95% confidence interval)		Placebo (n/N)	12% (n/N)
	Varenicline 0.5 mg BID	Varenicline 1 mg BID		
Study 2	45% (32% to 51%)	45% (32% to 51%)	12% (8% to 18%)	12% (8% to 18%)
Study 3	44% (38% to 49%)	44% (38% to 49%)	12% (7% to 17%)	12% (7% to 17%)
Study 5	41% (35% to 46%)	41% (35% to 46%)	12% (8% to 16%)	12% (8% to 16%)

14.2. Urges to Smoke
Based on responses to the Brief Questionnaire of Smoking Urges and the Minnesota Nicotine Withdrawal scale "urge to quit" item, varenicline reduced urges to smoke compared to placebo.

14.3. Long Term Abstinence

Figure 1 through 5 included 40 weeks of post-treatment follow-up. In each study, varenicline treated patients were more likely to maintain abstinence throughout the follow-up period than were patients treated with placebo (Figure 2, Table 5).

Figure 2. Continuous Abstinence (95% confidence interval), Study A

Study	Varenicline 1 mg BID	Varenicline 2 mg BID	Bupropion SR	Placebo
Study 2	45% (29%, 51%)	45% (29%, 51%)	22% (16%, 29%)	12% (8%, 18%)
Study 3	44% (38%, 49%)	44% (38%, 49%)	22% (16%, 29%)	12% (7%, 17%)
Study 4	41% (35%, 46%)	41% (35%, 46%)	22% (16%, 29%)	12% (8%, 16%)
Study 5	41% (35%, 46%)	41% (35%, 46%)	22% (16%, 29%)	12% (8%, 16%)

Table 5. Continuous Abstinence (95% confidence interval) Across Different Studies

Study	Varenicline 0.5 mg BID		Varenicline 1 mg BID		Bupropion SR		Placebo
	n	%	n	%	n	%	
Study 2	14%	24%	18%	29%	22%	8%	
Study 3	14%	24%	18%	29%	22%	8%	
Study 4	21%	36%	17%	29%	18%	11%	
Study 5	22%	36%	17%	29%	18%	10%	

Table 6. Continuous Abstinence (95% confidence interval), Study A

This study assessed the effect of an additional 12 weeks of varenicline therapy on the likelihood of long-term abstinence. Patients in this study (N = 1527) were treated with open-label varenicline 1 mg once daily for 12 weeks. Patients who had not started smoking for at least a week by Week 12 (N = 1210) were then randomized to double-blind treatment with varenicline 1 mg twice daily or placebo for an additional 12 weeks and then followed for 28 weeks post-treatment. The continuous abstinence rate from Week 13 through Week 24 was higher for patients continuing treatment with varenicline (70%) than for patients switching to placebo (55%). Superiority to placebo was also maintained during 28 weeks post-treatment follow-up (varenicline 5% versus placebo 3%).

In Figure 3 below, the x-axis represents the percentage of patients who are abstinent for the last week of varenicline treatment and remained abstinent at the given timepoint.

Figure 3. Continuous Abstinence Rate during Retreatment Follow-up

14.4. Alternative Interventions for Setting a Quit Date

Varenicline was evaluated in a double-blind, placebo-controlled trial where patients were instructed to select a target quit date between Day 8 and Day 25 of treatment. Subjects were randomized 2:1 to varenicline 1 mg twice daily (N = 488) or placebo (N = 165) for 12 weeks of treatment and followed for another 12 weeks post-treatment. Patients treated with varenicline had a superior rate of CO confirmed abstinence during weeks 9 through 12 (25%) compared to patients treated with placebo (15%) from weeks 9 through 12 (52%) compared to subjects treated with placebo (15%).

14.5. Gradual Approach to Quitting Smoking

Varenicline was evaluated in a 52-week double-blind placebo controlled study of 1,510 subjects who were not able or willing to quit smoking within four weeks, but were willing to gradually reduce their smoking over a 12-week period before quitting. Subjects were randomized to either varenicline 1 mg twice daily (N = 750) or placebo (N = 760) for 24 weeks and followed up post-treatment through week 52. Subjects were instructed to reduce the number of cigarettes smoked by at least 50 percent by the end of the first four weeks of treatment, followed by a further 50 percent reduction from week four to week eight of treatment, with the goal of reaching complete abstinence by 12 weeks. After the initial 12-week reduction phase, subjects continued to receive varenicline or placebo until they were able to achieve a clinically higher Continuous Abstinence Rate compared with placebo at weeks 15 through 24 (52% vs. 7%) and weeks 15 through 52 (52% vs. 5%).

14.6. Relapse Treatment Study

Varenicline was evaluated in a double-blind, placebo controlled trial of patients who had made a previous attempt to quit smoking with varenicline, and either did not succeed in quitting or relapsed after treatment. Subjects were randomized 1:1 to varenicline 1 mg twice daily (N = 250) or placebo (N = 250) for 12 weeks of treatment and followed for 40 weeks post-treatment. Patients included in this study had taken varenicline for a smoking cessation attempt in the past for a total treatment duration of a minimum of two weeks, at least three months prior to study entry, and had been smoking for at least four weeks.

Patients treated with varenicline had a superior rate of CO confirmed abstinence during weeks 9 through 12 (45%) compared to patients treated with placebo (12%) and from weeks 9 through 12 (20%) compared to subjects treated with placebo (5%).

Table 6. Continuous Abstinence (95% confidence interval), Re-Treatment Study

Retreatment Study	Weeks 9 through 12		Weeks 9 through 52	
	Varenicline 1 mg BID	Placebo	Varenicline 1 mg BID	Placebo
Retreatment Study	45% (30%, 51%)	12% (8%, 16%)	20% (15%, 25%)	5% (1%, 9%)

Table 7. Continuous Abstinence (95% confidence interval), Studies in Patients with Chronic Obstructive Pulmonary Disease (COPD)

Study	Weeks 9 through 12		Weeks 9 through 52	
	Varenicline 1 mg BID	Placebo	Varenicline 1 mg BID	Placebo
COPD Study	41% (34%, 47%)	8% (6%, 13%)	14% (14%, 24%)	5% (3%, 9%)

Table 8. Continuous Abstinence (95% confidence interval), Studies in Patients with Cardiovascular Disease (CVD)

Study	Weeks 9 through 12		Weeks 9 through 52	
	Varenicline 1 mg BID	Placebo	Varenicline 1 mg BID	Placebo
CVD Study	43% (42%, 53%)	14% (11%, 18%)	20% (18%, 24%)	7% (5%, 10%)

In this study, all-cause and CV mortality was lower in patients treated with varenicline, but certain nonfatal CV events occurred more frequently in patients treated with varenicline than in patients treated with placebo (see Warnings and Precautions (5.5), Adverse Reactions (6.1)). Table 2 below shows mortality and the incidence of selected nonfatal cardiac CV events occurring more frequently in the varenicline arm compared to the placebo arm. These events were adjudicated by an independent blinded committee. Nonfatal serious CV events not listed occurred at the same incidence or more commonly in the placebo arm. Patients with more than one CV event of the same type are counted only once per arm. Some of the patients requiring coronary revascularization underwent the procedure as part of management of nonfatal MI and angina pectoris for the placebo arm.

Table 2. Mortality and Adjudicated Nonfatal Serious Cardiovascular Events in the Placebo-Controlled Varenicline Trial in Patients with Stable Cardiovascular Disease

Mortality and Cardiovascular	Varenicline (N=353) n (%)	Placebo (N=350) n (%)
Mortality Cardiovascular and All-cause up to 52 weeks		
Cardiovascular	1 (0.3)	2 (0.6)
All-cause	2 (0.6)	5 (1.4)
Nonfatal Cardiovascular Events from on Varenicline > Placebo (Up to 50 days after treatment)		
Nonfatal myocardial infarction	4 (1.1)	1 (0.3)
Nonfatal stroke	2 (0.6)	0 (0)
Event 30 days after treatment and up to 52 weeks		
Nonfatal myocardial infarction	3 (0.8)	2 (0.6)
Need for coronary revascularization	7 (2.0)	2 (0.6)
Hospitalization for angina pectoris	6 (1.7)	4 (1.1)
Treatment scheme attack	1 (0.3)	0 (0)
New diagnosis of peripheral vascular disease (PVD) or admission for a PVD procedure	5 (1.4)	2 (0.6)

Following the CVD study, a meta-analysis of 15 clinical trials of ≥ 12 weeks treatment duration, including 7002 patients with stable CV disease, was conducted to systematically assess the CV safety of varenicline. The meta-analysis patients with stable CV disease described above was included in the meta-analysis. There were lower rates of all-cause mortality (varenicline 0.14% vs placebo 0.25%) and CV mortality (varenicline 0.05% vs placebo 0.27%) in the varenicline arm compared with the placebo arm in the meta-analysis. The meta-analysis included occurrences and timing of a composite endpoint of Major Adverse Cardiovascular Event (MACE), defined as CV death, nonfatal MI, and nonfatal stroke. These events included in the endpoint were also included in the meta-analysis. Overall, a small number of MACE occurred in the meta-analysis, as described in Table 13. These events occurred more frequently in patients with known CV disease.

Table 13. Number of MACE cases, Hazard Ratio and Risk Difference in a Meta-Analysis of 15 Clinical Trials Comparing Varenicline to Placebo*

MACE cases, n (%)	Varenicline N=4199	Placebo N=2812
Number of patients	13 (0.31%)	6 (0.21%)
Patient years of exposure	1316	829
Hazard Ratio (95% CI)		
Rate Difference per 1,000 patient years (95% CI)	0.50 (0.28, 0.82)	15 (10)

*Includes MACE occurring up to 30 days post-treatment. The meta-analysis showed that exposure to varenicline resulted in a hazard ratio for MACE of 1.35 (95% confidence interval of 0.73 to 2.52) versus placebo. The meta-analysis also showed a hazard ratio for CV mortality of 0.33 (95% confidence interval of 0.19 to 0.56) versus placebo. The meta-analysis showed higher rates of CV endpoints in patients on varenicline relative to placebo across different time frames and pre-specified sensitivity analyses, including various study designs and treatment durations. Although these findings were not statistically significant, they were consistent. Because the number of events was small overall, the power for finding a statistically significant difference in a signal of this magnitude was limited. Additionally, a cardiovascular endpoint analysis was added to the postmarketing neuro-psychiatric safety outcome study along with a non-treatment extension. (see Warnings and Precautions (5.5), Adverse Reactions (6.1), Clinical Studies (14.4)).

14.8. Subjects with Major Depressive Disorder

Varenicline was evaluated in a randomized, double-blind, placebo-controlled study of subjects aged 18 to 75 years with major depressive disorder without psychiatric comorbidities (N=3017) and with a history of psychiatric disorder (psychotic cohort, N=4003). Subjects aged 18 to 75 years, smoking 10 or more cigarettes per day were randomized 1:1:1 to varenicline 1 mg BID, bupropion SR 150 mg BID, NRT patch 7 mg/day with taper or placebo for a treatment period of 12 weeks, they were then followed for another 12 weeks post-treatment. (see Warnings and Precautions (5.1)). A composite safety endpoint intended to capture clinically significant neuropsychiatric adverse events included the following NPS adverse events: anxiety, depression, feeling suicidal, suicidal ideation, aggression, aggression, delirium, homicidal ideation, mania, panic, psychosis, irritability, suicidal ideation, suicidal ideation or completed suicide.

In addition to Table 15, the use of varenicline, bupropion, and NRT in the non-psychiatric cohort was associated with an increased risk of clinically significant NPS adverse events compared with placebo. Similarly, in the non-psychiatric cohort, the use of varenicline was not associated with an increased risk of clinically significant NPS adverse events in the composite endpoint compared with bupropion or NRT.

Table 14. Continuous Abstinence (95% confidence interval), Study in Patients with Major Depressive Disorder (MDD)

Study	Weeks 9 through 12		Weeks 9 through 52	
	Varenicline 1 mg BID	Placebo	Varenicline 1 mg BID	Placebo
MDD Study	38% (30%, 42%)	11% (9%, 14%)	25% (19%, 31%)	7% (4%, 11%)

Table 15. Number of Patients with Clinically Significant or Serious NPS Adverse Events by Treatment Group Among Patients without a History of Psychiatric Disorder

Study	Varenicline (N=272)		Bupropion (N=88)		NRT (N=87)		Placebo (N=822)	
	n	(%)	n	(%)	n	(%)	n	(%)
Clinically Significant NPS	30 (1.1)	34 (1.3)	33 (3.8)	33 (3.8)	29 (3.3)	40 (4.6)	1 (0.1)	4 (0.4)
Serious NPS	1 (0.4)	5 (0.8)	1 (1.1)	1 (1.1)	1 (1.1)	4 (0.4)	0	0
Psychiatric Hospitalizations	1 (0.4)	2 (0.2)	2 (2.3)	2 (2.3)	0 (0.0)	1 (0.1)	0	0

As shown in Table 16, there were more clinically significant NPS adverse events reported in patients in the psychiatric cohort in each treatment group compared with the non-psychiatric cohort. The incidence of events in the composite endpoint was higher for each of the active treatment groups compared to placebo. Rate Differences (RDs) (95% CI) in placebo were 2.7% (0.05, 5.4) for varenicline, 2.2% (0.5, 4.9) for bupropion, and 0.4% (2.3, 3.8) for NRT transdermal nicotine.

Table 16. Number of Patients with Clinically Significant or Serious NPS Adverse Events by Treatment Group Among Patients with a History of Psychiatric Disorder

Study	Varenicline (N=1007)		Bupropion (N=1004)		NRT (N=998)		Placebo (N=997)	
	n	(%)	n	(%)	n	(%)	n	(%)
Clinically Significant NPS	123 (12.2)	118 (11.8)	98 (9.8)	98 (9.8)	95 (9.5)	95 (9.5)	1 (0.1)	4 (0.4)
Serious NPS	6 (0.6)	6 (0.6)	4 (0.4)	4 (0.4)	4 (0.4)	6 (0.6)	0	0
Psychiatric Hospitalizations	5 (0.5)	6 (0.6)	4 (0.4)	4 (0.4)	2 (0.2)	2 (0.2)	0	0

There was one completed suicide, which occurred during treatment in a patient treated with placebo in the non-psychiatric cohort. There were no completed suicides reported in the psychiatric cohort.

In both cohorts, subjects treated with varenicline had a superior rate of CO confirmed abstinence during weeks 9 through 12 and 9 through 24 compared to subjects treated with bupropion, nicotine patch and placebo.

Table 17. Continuous Abstinence (95% confidence interval), Study in Patients with or without a History of Psychiatric Disorder

Study	Varenicline 1 mg BID		Bupropion SR 150 mg BID		NRT 21 mg/patch taper		Placebo
	n	%	n	%	n	%	
Weeks 9 through 12							
Non-Psychiatric Cohort	38%	29%	20%	29%	26%	14%	11%
Psychiatric Cohort	29%	19%	22%	18%	20%	11%	14%
Weeks 9 through 24							
Non-Psychiatric Cohort	25%	19%	16%	21%	18%	11%	13%
Psychiatric Cohort	18%	14%	13%	8%	13%	9%	10%

Table 18. The Incidence of MACE* and All-Cause Death in the Cardiovascular Safety Assessment Trial in Subjects without or with a History of Psychiatric Disorder

Study	Varenicline N=2066		Bupropion N=1897		NRT N=2017		Placebo N=2007	
	n	(%)	n	(%)	n	(%)	n	(%)
During treatment**								
MACE, n (%)	1 (2.4)	2 (1.0)	1 (2.4)	1 (2.4)	4 (8.8)	4 (8.8)	0	0
All-cause death, n (%)	0 (0.0)	2 (1.0)	0 (0.0)	2 (1.0)	0 (0.0)	2 (1.0)	0	0
Through end of study**								
MACE, n (%)	3 (2.1)	9 (8.3)	6 (4.3)	6 (4.3)	8 (5.7)	8 (5.7)	0	0
All-cause death, n (%)	0 (0.0)	1 (0.5)	0 (0.0)	1 (0.5)	0 (0.0)	1 (0.5)	0	0

Table 19. The Incidence of MACE* and All-Cause Death in the Cardiovascular Safety Assessment Trial in Subjects with or with a History of Psychiatric Disorder

Study	Varenicline N=2066		Bupropion N=1897		NRT N=2017		Placebo N=2007	
	n	(%)	n	(%)	n	(%)	n	(%)
During treatment**								
MACE, n (%)	5 (12.1)	4 (8.9)	2 (4.8)	5 (12.2)	5 (12.2)	5 (12.2)	0	0
All-cause death, n (%)	0	2 (4.8)	0	2 (4.8)	0	2 (4.8)	0	0
Through end of study**								
MACE, n (%)	10 (6.8)	16 (10.0)	10 (7.1)	13 (8.0)	13 (8.0)	13 (8.0)	0	0
All-cause death, n (%)	2 (1.4)	4 (2.8)	2 (1.4)	4 (2.8)	4 (2.8)	4 (2.8)	0	0

Table 20. Continuous Abstinence (95% confidence interval), Studies in Patients with Chronic Obstructive Pulmonary Disease (COPD)

Study	Weeks 9 through 12		Weeks 9 through 52	
	Varenicline 1 mg BID	Placebo	Varenicline 1 mg BID	Placebo
COPD Study	41% (34%, 47%)	8% (6%, 13%)	14% (14%, 24%)	5