

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use QSYMIA® safely and effectively. See full prescribing information for QSYMIA.

QSYMIA (phentermine and topiramate extended-release) capsules, for oral use, CIV
Initial U.S. Approval: 2012

RECENT MAJOR CHANGES

Warnings and Precautions (5.1).....10/2020

INDICATIONS AND USAGE

Qsymia is a combination of phentermine, a sympathomimetic amine anorectic, and topiramate extended-release, an antiepileptic drug, indicated as an adjunct to a reduced-calorie diet and increased physical activity for chronic weight management in adults with an initial body mass index (BMI) of:

- 30 kg/m² or greater (obese) (1) or
- 27 kg/m² or greater (overweight) in the presence of at least one weight-related comorbidity such as hypertension, type 2 diabetes mellitus, or dyslipidemia (1)

Limitations of Use:

- The effect of Qsymia on cardiovascular morbidity and mortality has not been established (1).
- The safety and effectiveness of Qsymia in combination with other products intended for weight loss, including prescription and over-the-counter drugs, and herbal preparations, have not been established (1).

DOSAGE AND ADMINISTRATION

- Take once daily in morning. Avoid evening dose to prevent insomnia (2.1).
- Recommended dose: Qsymia 3.75 mg/23 mg (phentermine 3.75 mg/topiramate 23 mg extended-release) daily for 14 days; then increase to 7.5 mg/46 mg daily (2.1).
- Discontinue or escalate dose (as described) if 3% weight loss is not achieved after 12 weeks on 7.5 mg/46 mg dose (2.1).
- Discontinue Qsymia if 5% weight loss is not achieved after 12 weeks on maximum daily dose of 15 mg/92 mg (2.1).
- Discontinue 15 mg/92 mg dose gradually (as described) to prevent possible seizure (2.1).
- Do not exceed 7.5 mg/46 mg dose for patients with moderate or severe renal impairment or patients with moderate hepatic impairment (2.2, 2.3).

DOSAGE FORMS AND STRENGTHS

Capsules: (phentermine mg/topiramate mg extended-release)

- 3.75 mg/23 mg (3)
- 7.5 mg/46 mg (3)
- 11.25 mg/69 mg (3)
- 15 mg/92 mg (3)

CONTRAINDICATIONS

- Pregnancy (4)
- Glaucoma (4)
- Hyperthyroidism (4)
- During or within 14 days of taking monoamine oxidase inhibitors (4)

- Known hypersensitivity or idiosyncrasy to sympathomimetic amines (4)

WARNINGS AND PRECAUTIONS

- Embryo-Fetal Toxicity: Can cause fetal harm. Patients who can become pregnant: Pregnancy testing recommended before initiating Qsymia and monthly during therapy; advise use of effective contraception. Qsymia is available through a limited program under a Risk Evaluation and Mitigation Strategy (REMS) (5.1).
- Increase in Heart Rate: Monitor heart rate in all patients, especially those with cardiac or cerebrovascular disease (5.2).
- Suicidal Behavior and Ideation: Monitor for depression or suicidal thoughts. Discontinue Qsymia if symptoms develop (5.3).
- Acute Myopia and Secondary Angle Closure Glaucoma: Discontinue Qsymia (5.4).
- Mood and Sleep Disorders: Consider dose reduction or withdrawal for clinically significant or persistent symptoms (5.5).
- Cognitive Impairment: May cause disturbances in attention or memory. Caution patients about operating automobiles or hazardous machinery when starting treatment (5.6).
- Metabolic Acidosis: Measure electrolytes before/during treatment (5.7).
- Elevated Creatinine: Measure creatinine before/during treatment (5.8).
- Use of Antidiabetic Medications: Weight loss may cause hypoglycemia. Measure serum glucose before/during treatment (5.9).

ADVERSE REACTIONS

Most common adverse reactions (incidence greater than or equal to 5% and at a rate at least 1.5 times placebo) are: paraesthesia, dizziness, dysgeusia, insomnia, constipation, and dry mouth (6.1).

To report SUSPECTED ADVERSE REACTIONS, contact VIVUS, Inc., at 1-888-998-4887 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

- Oral contraceptives: Altered exposure may cause irregular bleeding but not increased risk of pregnancy. Advise patients not to discontinue oral contraceptives if spotting occurs (7.2).
- CNS depressants including alcohol: Potentiate CNS depressant effects. Avoid concomitant use of alcohol (7.3).
- Non-potassium sparing diuretics: May potentiate hypokalemia. Measure potassium before/during treatment (7.4).

USE IN SPECIFIC POPULATIONS

- Lactation: Breastfeeding not recommended (8.2).
- Pediatric Use: Safety and effectiveness not established and use not recommended (8.4).

See 17 for **PATIENT COUNSELING INFORMATION** and **Medication Guide**

Revised: 10/2020

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FULL PRESCRIBING INFORMATION

1 INDICATIONS AND USAGE

Qsymia is indicated as an adjunct to a reduced-calorie diet and increased physical activity for chronic weight management in adult patients with an initial body mass index (BMI) of

- 30 kg/m² or greater (obese), or
- 27 kg/m² or greater (overweight) in the presence of at least one weight related comorbidity such as hypertension, type 2 diabetes mellitus, or dyslipidemia

Limitations of Use

- The effect of Qsymia on cardiovascular morbidity and mortality has not been established.
- The safety and effectiveness of Qsymia in combination with other products intended for weight loss, including prescription and over-the-counter drugs and herbal preparations have not been established.

2 DOSAGE AND ADMINISTRATION

2.1 General Dosing and Administration

Pregnancy testing is recommended before initiating Qsymia in patients who can become pregnant and monthly during Qsymia therapy [see *Warnings and Precautions* (5.1) and *Use in Specific Populations* (8.3)].

Determine the patient's BMI. BMI is calculated by dividing weight (in kilograms) by height (in meters) squared. A BMI conversion chart (Table 1) based on height [inches (in) or centimeters (cm)] and weight [pounds (lb) or kilograms (kg)] is provided below.

Table 1. BMI Conversion Chart

Weight	(lb)	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225
	(kg)	56.8	59.1	61.4	63.6	65.9	68.2	70.5	72.7	75.0	77.3	79.5	81.8	84.1	86.4	88.6	90.9	93.2	95.5	97.7	100.0	102.3
Height																						
(in)	(cm)																					
58	147.3	26	27	28	29	30	31	32	34	35	36	37	38	39	40	41	42	43	44	45	46	47
59	149.9	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	43	44	45	46
60	152.4	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
61	154.9	24	25	26	27	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43
62	157.5	23	24	25	26	27	27	28	29	30	31	32	33	34	35	36	37	38	38	39	40	41
63	160.0	22	23	24	25	26	27	28	28	29	30	31	32	33	34	35	36	36	37	38	39	40
64	162.6	22	22	23	24	25	26	27	28	28	29	30	31	32	33	34	34	35	36	37	38	39
65	165.1	21	22	23	23	24	25	26	27	28	28	29	30	31	32	33	33	34	35	36	37	38
66	167.6	20	21	22	23	23	24	25	26	27	27	28	29	30	31	32	32	33	34	35	36	36
67	170.2	20	20	21	22	23	24	24	25	26	27	27	28	29	30	31	31	32	33	34	35	35
68	172.7	19	20	21	21	22	23	24	24	25	26	27	27	28	29	30	30	31	32	33	34	34
69	175.3	18	19	20	21	21	22	23	24	24	25	26	27	27	28	29	30	30	31	32	33	33
70	177.8	18	19	19	20	21	22	22	23	24	24	25	26	27	27	28	29	29	30	31	32	32

Table 1. BMI Conversion Chart

71	180.3	17	18	19	20	20	21	22	22	23	24	24	25	26	27	27	28	29	29	30	31	31
72	182.9	17	18	18	19	20	20	21	22	22	23	24	24	25	26	27	27	28	29	29	30	31
73	185.4	17	17	18	19	19	20	20	21	22	22	23	24	24	25	26	26	27	28	28	29	30
74	188.0	16	17	17	18	19	19	20	21	21	22	23	23	24	24	25	26	26	27	28	28	29
75	190.5	16	16	17	18	18	19	19	20	21	21	22	23	23	24	24	25	26	26	27	28	28
76	193.0	15	16	16	17	18	18	19	20	20	21	21	22	23	23	24	24	25	26	26	27	27

In adults with an initial BMI of 30 kg/m² or greater or 27 kg/m² or greater when accompanied by weight-related co-morbidities such as hypertension, type 2 diabetes mellitus, or dyslipidemia prescribe Qsymia as follows:

- Take Qsymia once daily in the morning with or without food. Avoid dosing with Qsymia in the evening due to the possibility of insomnia.
- Start treatment with Qsymia 3.75 mg/23 mg (phentermine 3.75 mg/topiramate 23 mg extended-release) daily for 14 days; after 14 days increase to the recommended dose of Qsymia 7.5 mg/46 mg (phentermine 7.5 mg/topiramate 46 mg extended-release) once daily.
- Evaluate weight loss after 12 weeks of treatment with Qsymia 7.5 mg/46 mg.

If a patient has not lost at least 3% of baseline body weight on Qsymia 7.5 mg/46 mg, discontinue Qsymia or escalate the dose, as it is unlikely that the patient will achieve and sustain clinically meaningful weight loss at the Qsymia 7.5 mg/46 mg dose.

To escalate the dose: Increase to Qsymia 11.25 mg/69 mg (phentermine 11.25 mg/topiramate 69 mg extended-release) daily for 14 days; followed by dosing Qsymia 15 mg/92 mg (phentermine 15 mg/topiramate 92 mg extended-release) once daily.

- Evaluate weight loss following dose escalation to Qsymia 15 mg/92 mg after an additional 12 weeks of treatment.

If a patient has not lost at least 5% of baseline body weight on Qsymia 15 mg/92 mg, discontinue Qsymia as directed, as it is unlikely that the patient will achieve and sustain clinically meaningful weight loss with continued treatment.

- Qsymia 3.75 mg/23 mg and Qsymia 11.25 mg/69 mg are for titration purposes only.

Discontinuing Qsymia

- Discontinue Qsymia 15 mg/92 mg gradually by taking a dose every other day for at least 1 week prior to stopping treatment altogether, due to the possibility of precipitating a seizure [see [Warnings and Precautions \(5.12\)](#)].

2.2 Dosing in Patients with Renal Impairment

In patients with moderate (creatinine clearance [CrCl] greater than or equal to 30 and less than 50 mL/min) or severe (CrCl less than 30 mL/min) renal impairment dosing should not exceed Qsymia 7.5 mg/46 mg once daily. Renal impairment is determined by calculating CrCl using the

Cockcroft-Gault equation with actual body weight [see [Warnings and Precautions \(5.13\)](#) and [Clinical Pharmacology \(12.3\)](#)].

2.3 Dosing in Patients with Hepatic Impairment

In patients with moderate hepatic impairment (Child-Pugh score 7 - 9), dosing should not exceed Qsymia 7.5 mg/46 mg once daily [see [Warnings and Precautions \(5.14\)](#) and [Clinical Pharmacology \(12.3\)](#)].

3 DOSAGE FORMS AND STRENGTHS

Qsymia capsules are formulated in the following four strength combinations (phentermine mg/topiramate mg extended-release):

- 3.75 mg/23 mg [Purple cap imprinted with VIVUS, Purple body imprinted with 3.75/23]
- 7.5 mg/46 mg [Purple cap imprinted with VIVUS, Yellow body imprinted with 7.5/46]
- 11.25 mg/69 mg [Yellow cap imprinted with VIVUS, Yellow body imprinted with 11.25/69]
- 15 mg/92 mg [Yellow cap imprinted with VIVUS, White body imprinted with 15/92]

4 CONTRAINDICATIONS

Qsymia is contraindicated in the following conditions:

- Pregnancy [see [Warnings and Precautions \(5.1\)](#) and [Use in Specific Populations \(8.1\)](#)]
- Glaucoma [see [Warnings and Precautions \(5.4\)](#)]
- Hyperthyroidism
- During or within 14 days following the administration of monoamine oxidase inhibitors [see [Drug Interactions \(7.1\)](#)]
- Known hypersensitivity or idiosyncrasy to the sympathomimetic amines [see [Adverse Reactions \(6.2\)](#)].

5 WARNINGS AND PRECAUTIONS

5.1 Embryo-Fetal Toxicity

Qsymia can cause fetal harm. Data from a pregnancy registry and epidemiologic studies indicate that a fetus exposed to topiramate, a component of Qsymia, in the first trimester of pregnancy has an increased risk of oral clefts (cleft lip with or without cleft palate). Pregnancy testing is recommended before initiating Qsymia treatment in patients who can become pregnant and monthly during Qsymia therapy. Advise patients who can become pregnant of the potential risk to a fetus and to use effective contraception during Qsymia therapy [see [Use in Specific Populations \(8.1\)](#) and [\(8.3\)](#)].

Qsymia Risk Evaluation and Mitigation Strategy (REMS)

Because of the teratogenic risk associated with Qsymia therapy, Qsymia is available through a limited program under the REMS. Under the Qsymia REMS, only certified pharmacies may distribute Qsymia. Further information is available at www.QsymiaREMS.com or by telephone at 1-888-998-4887.

5.2 Increase in Heart Rate

Qsymia can cause an increase in resting heart rate.

A higher percentage of Qsymia-treated overweight and obese adults experienced heart rate increases from baseline of more than 5, 10, 15, and 20 beats per minute (bpm) compared to placebo-treated overweight and obese adults. Table 2 provides the numbers and percentages of patients with elevations in heart rate in clinical studies of up to one year.

Table 2. Number and Percentage of Patients with an Increase in Heart Rate at a Single Time Point from Baseline

	Placebo N=1561 n (%)	Qsymia 3.75 mg/23 mg N=240 n (%)	Qsymia 7.5 mg/46 mg N=498 n (%)	Qsymia 15 mg/92 mg N=1580 n (%)
Greater than 5 bpm	1021 (65.4)	168 (70.0)	372 (74.7)	1228 (77.7)
Greater than 10 bpm	657 (42.1)	120 (50.0)	251 (50.4)	887 (56.1)
Greater than 15 bpm	410 (26.3)	79 (32.9)	165 (33.1)	590 (37.3)
Greater than 20 bpm	186 (11.9)	36 (15.0)	67 (13.5)	309 (19.6)

The clinical significance of a heart rate elevation with Qsymia treatment is unclear, especially for patients with cardiac and cerebrovascular disease (such as patients with a history of myocardial infarction or stroke in the previous 6 months, life-threatening arrhythmias, or congestive heart failure).

Regular measurement of resting heart rate is recommended for all patients taking Qsymia, especially patients with cardiac or cerebrovascular disease or when initiating or increasing the dose of Qsymia. Qsymia has not been studied in patients with recent or unstable cardiac or cerebrovascular disease and therefore use is not recommended.

Patients should inform healthcare providers of palpitations or feelings of a racing heartbeat while at rest during Qsymia treatment. For patients who experience a sustained increase in resting heart rate while taking Qsymia, the dose should be reduced or Qsymia discontinued.

5.3 Suicidal Behavior and Ideation

Antiepileptic drugs (AEDs), including topiramate, a component of Qsymia, increase the risk of suicidal thoughts or behavior in patients taking these drugs for any indication. Patients treated with Qsymia should be monitored for the emergence or worsening of depression, suicidal thoughts or behavior, and/or any unusual changes in mood or behavior. Discontinue Qsymia in patients who experience suicidal thoughts or behaviors.

Avoid Qsymia in patients with a history of suicidal attempts or active suicidal ideation.

Pooled analyses of 199 placebo-controlled clinical studies (monotherapy and adjunctive therapy, median treatment duration 12 weeks) of 11 different AEDs across several indications showed that patients randomized to one of the AEDs had approximately twice the risk (adjusted Relative Risk 1.8, 95% Confidence Interval [CI] 1.2, 2.7) of suicidal thinking or behavior compared to patients randomized to placebo. The estimated incidence rate of suicidal behavior or ideation among 27,863 AED-treated patients was 0.43%, compared to 0.24% among 16,029 placebo-treated patients, representing an increase of approximately one case of suicidal thinking or behavior for every 530 patients treated. There were four suicides in AED-treated patients in the trials and none in placebo treated patients, but the number is too small to allow any conclusion about AED effect on suicide.

The increased risk of suicidal thoughts or behavior with AEDs was observed as early as 1 week after starting drug treatment with AEDs and persisted for the duration of treatment assessed. Because most trials included in the analysis did not extend beyond 24 weeks, the risk of suicidal thoughts or behavior beyond 24 weeks could not be assessed.

The risk of suicidal thoughts or behavior was generally consistent among drugs in the data analyzed. The finding of increased risk with AEDs of varying mechanisms of action and across a range of indications suggests that the risk applies to all AEDs used for any indication. The risk did not vary substantially by age (5 to 100 years) in the clinical trials analyzed.

5.4 Acute Myopia and Secondary Angle Closure Glaucoma

A syndrome consisting of acute myopia associated with secondary angle closure glaucoma has been reported in patients treated with topiramate, a component of Qsymia. Symptoms include acute onset of decreased visual acuity and/or ocular pain. Ophthalmologic findings can include myopia, anterior chamber shallowing, ocular hyperemia (redness), and increased intraocular pressure. Mydriasis may or may not be present. This syndrome may be associated with supraciliary effusion resulting in anterior displacement of the lens and iris, with secondary angle closure glaucoma. Symptoms typically occur within 1 month of initiating treatment with topiramate but may occur at any time during therapy. The primary treatment to reverse symptoms is immediate discontinuation of Qsymia. Elevated intraocular pressure of any etiology, if left untreated, can lead to serious adverse events including permanent loss of vision.

5.5 Mood and Sleep Disorders

Qsymia can cause mood disorders, including depression, and anxiety, as well as insomnia. Patients with a history of depression may be at increased risk of recurrent depression or other mood disorders while taking Qsymia. The majority of these mood and sleep disorders resolved spontaneously, or resolved upon discontinuation of dosing [*see Adverse Reactions (6.1)*].

For clinically significant or persistent symptoms consider dose reduction or withdrawal of Qsymia. If patients have symptoms of suicidal ideation or behavior, discontinue Qsymia.

5.6 Cognitive Impairment

Qsymia can cause cognitive dysfunction (e.g., impairment of concentration/attention, difficulty with memory, and speech or language problems, particularly word-finding difficulties). Rapid titration or high initial doses of Qsymia may be associated with higher rates of cognitive events

such as attention, memory, and language/word-finding difficulties [*see Adverse Reactions (6.1)*].

Since Qsymia has the potential to impair cognitive function, patients should be cautioned about operating hazardous machinery, including automobiles, until they are reasonably certain Qsymia therapy does not affect them adversely. If cognitive dysfunction persists consider dose reduction or withdrawal of Qsymia for symptoms that are moderate to severe, bothersome, or those which fail to resolve with dose reduction.

5.7 Metabolic Acidosis

Hyperchloremic, non-anion gap, metabolic acidosis (decreased serum bicarbonate below the normal reference range in the absence of chronic respiratory alkalosis) has been reported in patients treated with Qsymia [*see Adverse Reactions (6.1)*].

Conditions or therapies that predispose to acidosis (i.e., renal disease, severe respiratory disorders, status epilepticus, diarrhea, surgery or ketogenic diet) may be additive to the bicarbonate lowering effects of topiramate. Concomitant use of Qsymia and a carbonic anhydrase inhibitor (e.g., zonisamide, acetazolamide, or dichlorphenamide) may increase the severity of metabolic acidosis and may also increase the risk of kidney stone formation. Therefore, if Qsymia is given concomitantly with another carbonic anhydrase inhibitor to a patient with a predisposing condition for metabolic acidosis the patient should be monitored for the appearance or worsening of metabolic acidosis.

Some manifestations of acute or chronic metabolic acidosis may include hyperventilation, nonspecific symptoms such as fatigue and anorexia, or more severe sequelae including cardiac arrhythmias or stupor. Chronic, untreated metabolic acidosis may increase the risk for nephrolithiasis or nephrocalcinosis, and may also result in osteomalacia (referred to as rickets in pediatric patients) and/or osteoporosis with an increased risk for fractures. The effect of Qsymia on growth and bone-related sequelae has not been systematically investigated in long-term, placebo-controlled trials.

Measurement of electrolytes including serum bicarbonate prior to starting Qsymia and during Qsymia treatment is recommended. In Qsymia clinical trials, the peak reduction in serum bicarbonate occurred by week 4, and in most subjects there was a correction of bicarbonate by week 56, without any change to study drug. However, if persistent metabolic acidosis develops while taking Qsymia, reduce the dose or discontinue Qsymia.

5.8 Elevation in Creatinine

Qsymia can cause an increase in serum creatinine that reflects a decrease in renal function (glomerular filtration rate). In phase 3 trials, peak increases in serum creatinine were observed after 4 to 8 weeks of treatment. On average, serum creatinine gradually declined but remained elevated over baseline creatinine values. The changes in serum creatinine (and measured GFR) with short-term Qsymia treatment appear reversible with treatment discontinuation, but the effect of chronic treatment on renal function is not known. Therefore, measurement of serum creatinine prior to starting Qsymia and during Qsymia treatment is recommended. If persistent elevations in creatinine occur while taking Qsymia, reduce the dose or discontinue Qsymia [*see Adverse Reactions (6.1)*, *Pharmacodynamics (12.2)*].

5.9 Potential Risk of Hypoglycemia in Patients with Type 2 Diabetes Mellitus on Anti-Diabetic Therapy

Weight loss may increase the risk of hypoglycemia in patients with type 2 diabetes mellitus treated with insulin and/or insulin secretagogues (e.g., sulfonylureas). Qsymia has not been studied in combination with insulin. Measurement of blood glucose levels prior to starting Qsymia and during Qsymia treatment is recommended in patients with type 2 diabetes. Decreases in medication doses for antidiabetic medications which are non-glucose-dependent should be considered to mitigate the risk of hypoglycemia. If a patient develops hypoglycemia after starting Qsymia, appropriate changes should be made to the antidiabetic drug regimen.

5.10 Potential Risk of Hypotension in Patients Treated with Antihypertensive Medications

In hypertensive patients being treated with antihypertensive medications, weight loss may increase the risk of hypotension, and associated symptoms including dizziness, lightheadedness, and syncope. Measurement of blood pressure prior to starting Qsymia and during Qsymia treatment is recommended in patients being treated for hypertension. If a patient develops symptoms associated with low blood pressure after starting Qsymia, appropriate changes should be made to the antihypertensive drug regimen.

5.11 CNS Depression with Concomitant CNS Depressants Including Alcohol

The concomitant use of alcohol or central nervous system (CNS) depressant drugs (e.g., barbiturates, benzodiazepines, and sleep medications) with phentermine or topiramate may potentiate CNS depression or other centrally mediated effects of these agents, such as dizziness, cognitive adverse reactions, drowsiness, light-headedness, impaired coordination and somnolence. Therefore, avoid concomitant use of alcohol with Qsymia.

5.12 Potential Seizures with Abrupt Withdrawal of Qsymia

Abrupt withdrawal of topiramate, a component of Qsymia, has been associated with seizures in individuals without a history of seizures or epilepsy. In situations where immediate termination of Qsymia is medically required, appropriate monitoring is recommended. Patients discontinuing Qsymia 15 mg/92 mg should be gradually tapered as recommended to reduce the possibility of precipitating a seizure [*see Dosage and Administration (2.1)*].

5.13 Patients with Renal Impairment

Phentermine and topiramate, the components of Qsymia, are cleared by renal excretion. Therefore, exposure to phentermine and topiramate is higher in patients with moderate (creatinine clearance [CrCl] greater than or equal to 30 and less than 50 mL/min) or severe (CrCl less than 30 mL/min) renal impairment. Adjust dose of Qsymia for both patient populations.

Qsymia has not been studied in patients with end-stage renal disease on dialysis. Avoid use of Qsymia in this patient population [*see Dosage and Administration (2.2) and Clinical Pharmacology (12.3)*].

5.14 Patients with Hepatic Impairment

In patients with mild (Child-Pugh score 5 - 6) or moderate (Child-Pugh score 7 - 9) hepatic impairment, exposure to phentermine was higher compared to healthy volunteers. Adjust dose of Qsymia for patients with moderate hepatic impairment.

Qsymia has not been studied in patients with severe hepatic impairment (Child-Pugh score 10 - 15). Avoid use of Qsymia in this patient population [see [Dosage and Administration \(2.3\)](#), and [Clinical Pharmacology \(12.3\)](#)].

5.15 Kidney Stones

Use of Qsymia has been associated with kidney stone formation. Topiramate, a component of Qsymia, inhibits carbonic anhydrase activity and promotes kidney stone formation by reducing urinary citrate excretion and increasing urine pH.

Avoid the use of Qsymia with other drugs that inhibit carbonic anhydrase (e.g., zonisamide, acetazolamide, or methazolamide).

Use of topiramate by patients on a ketogenic diet may also result in a physiological environment that increases the likelihood of kidney stone formation.

Increase fluid intake to increase urinary output which can decrease the concentration of substances involved in kidney stone formation [see [Adverse Reactions \(6.1\)](#)].

5.16 Oligohidrosis and Hyperthermia

Oligohidrosis (decreased sweating), infrequently resulting in hospitalization, has been reported in association with the use of topiramate, a component of Qsymia. Decreased sweating and an elevation in body temperature above normal characterized these cases. Some of the cases have been reported with topiramate after exposure to elevated environmental temperatures.

Patients treated with Qsymia should be advised to monitor for decreased sweating and increased body temperature during physical activity, especially in hot weather. Caution should be used when Qsymia is prescribed with other drugs that predispose patients to heat-related disorders; these drugs include, but are not limited to, other carbonic anhydrase inhibitors and drugs with anticholinergic activity.

5.17 Hypokalemia

Qsymia can increase the risk of hypokalemia through its inhibition of carbonic anhydrase activity. In addition, when Qsymia is used in conjunction with non-potassium sparing diuretics such as furosemide (loop diuretic) or hydrochlorothiazide (thiazide-like diuretic) this may further potentiate potassium-wasting. When prescribing Qsymia, patients should be monitored for hypokalemia [see [Adverse Reactions \(6.1\)](#) and [Clinical Pharmacology \(12.3\)](#)].

5.18 Monitoring: Laboratory Tests

Qsymia was associated with changes in several clinical laboratory analytes in randomized, double-blind, placebo-controlled studies.

Obtain a blood chemistry profile that includes bicarbonate, creatinine, potassium, and glucose at baseline and periodically during treatment [see [Warnings and Precautions \(5.7\)](#), [\(5.8\)](#), [\(5.9\)](#), and [\(5.17\)](#)].

6 ADVERSE REACTIONS

The following important adverse reactions are described below and elsewhere in the labeling:

- Fetal Toxicity: [see [Warnings and Precautions \(5.1\)](#) and [Use in Specific Populations \(8.1\)](#), [\(8.6\)](#)]
- Elevation in Heart Rate [see [Warnings and Precautions \(5.2\)](#)]
- Suicidal Behavior and Ideation [see [Warnings and Precautions \(5.3\)](#)]
- Acute Angle Closure Glaucoma [see [Warnings and Precautions \(5.4\)](#)]
- Mood and Sleep Disorders [see [Warnings and Precautions \(5.5\)](#)]
- Cognitive Impairment [see [Warnings and Precautions \(5.6\)](#)]
- Metabolic Acidosis [see [Warnings and Precautions \(5.7\)](#)]

6.1 Clinical Trials Experience

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 studies of another drug and may not reflect the rates observed in practice.

The data described herein reflects exposure to Qsymia in two, 1-year, randomized, double-blind, placebo-controlled, multicenter clinical trials, and two Phase 2 supportive trials in 2318 adult patients (936 [40.4%] patients with hypertension, 309 [13.3%] patients with type 2 diabetes, 808 [34.9%] patients with BMI greater than 40 kg/m²) exposed for a mean duration of 298 days.

Common Adverse Reactions: Adverse reactions occurring at a rate of greater than or equal to 5% and at a rate at least 1.5 times placebo include paraesthesia, dizziness, dysgeusia, insomnia, constipation, and dry mouth.

Adverse reactions reported in greater than or equal to 2% of Qsymia-treated patients and more frequently than in the placebo group are shown in Table 3.

Table 3. Adverse Reactions Reported in Greater Than or Equal to 2% of Patients and More Frequently than Placebo during 1 Year of Treatment – Overall Study Population

System Organ Class Preferred Term	Placebo (N = 1561) %	Qsymia 3.75 mg/23 mg (N = 240) %	Qsymia 7.5 mg/46 mg (N = 498) %	Qsymia 15 mg/92 mg (N = 1580) %
Nervous System Disorders				
Paraesthesia	1.9	4.2	13.7	19.9
Headache	9.3	10.4	7.0	10.6
Dizziness	3.4	2.9	7.2	8.6
Dysgeusia	1.1	1.3	7.4	9.4
Hypoesthesia	1.2	0.8	3.6	3.7
Disturbance in Attention	0.6	0.4	2.0	3.5
Psychiatric Disorders				
Insomnia	4.7	5.0	5.8	9.4
Depression	2.2	3.3	2.8	4.3
Anxiety	1.9	2.9	1.8	4.1
Gastrointestinal Disorders				
Constipation	6.1	7.9	15.1	16.1
Dry Mouth	2.8	6.7	13.5	19.1
Nausea	4.4	5.8	3.6	7.2
Diarrhea	4.9	5.0	6.4	5.6
Dyspepsia	1.7	2.1	2.2	2.8
Gastroesophageal Reflux Disease	1.3	0.8	3.2	2.6
Paraesthesia Oral	0.3	0.4	0.6	2.2
General Disorders and Administration Site Conditions				
Fatigue	4.3	5.0	4.4	5.9
Irritability	0.7	1.7	2.6	3.7
Thirst	0.7	2.1	1.8	2.0
Chest Discomfort	0.4	2.1	0.2	0.9
Eye Disorders				
Vision Blurred	3.5	6.3	4.0	5.4
Eye Pain	1.4	2.1	2.2	2.2
Dry Eye	0.8	0.8	1.4	2.5
Cardiac Disorders				
Palpitations	0.8	0.8	2.4	1.7
Skin and Subcutaneous Tissue Disorders				
Rash	2.2	1.7	2.0	2.6
Alopecia	0.7	2.1	2.6	3.7
Metabolism and Nutrition Disorders				
Hypokalemia	0.4	0.4	1.4	2.5
Decreased Appetite	0.6	2.1	1.8	1.5
Reproductive System and Breast Disorders				
Dysmenorrhea	0.2	2.1	0.4	0.8
Infections and Infestations				
Upper Respiratory Tract Infection	12.8	15.8	12.2	13.5
Nasopharyngitis	8.0	12.5	10.6	9.4
Sinusitis	6.3	7.5	6.8	7.8
Bronchitis	4.2	6.7	4.4	5.4
Influenza	4.4	7.5	4.6	4.4
Urinary Tract Infection	3.6	3.3	5.2	5.2
Gastroenteritis	2.2	0.8	2.2	2.5

Musculoskeletal and Connective Tissue Disorders				
Back Pain	5.1	5.4	5.6	6.6
Pain in Extremity	2.8	2.1	3.0	3.0
Muscle Spasms	2.2	2.9	2.8	2.9
Musculoskeletal Pain	1.2	0.8	3.0	1.6
Neck Pain	1.3	1.3	2.2	1.2
Respiratory, Thoracic, and Mediastinal Disorders				
Cough	3.5	3.3	3.8	4.8
Sinus Congestion	2.0	2.5	2.6	2.0
Pharyngolaryngeal Pain	2.0	2.5	1.2	2.3
Nasal Congestion	1.4	1.7	1.2	2.0
Injury, Poisoning, and Procedural Complications				
Procedural Pain	1.7	2.1	2.4	1.9

Paraesthesia/Dysgeusia

Reports of paraesthesia, characterized as tingling in hands, feet, or face, occurred in 4.2%, 13.7%, and 19.9% of patients treated with Qsymia 3.75 mg/23 mg, 7.5 mg/46 mg, and 15 mg/92 mg, respectively, compared to 1.9% of patients treated with placebo. Dysgeusia was characterized as a metallic taste, and occurred in 1.3%, 7.4%, and 9.4% of patients treated with Qsymia 3.75 mg/23 mg, 7.5 mg/46 mg, and 15 mg/92 mg, respectively, compared to 1.1% of patients treated with placebo. The majority of these events first occurred within the initial 12 weeks of drug therapy; however, in some patients, events were reported later in the course of treatment. Only Qsymia-treated patients discontinued treatment due to these events (1% for paraesthesia and 0.6% for dysgeusia).

Mood and Sleep Disorders

The proportion of patients in 1-year controlled trials of Qsymia reporting one or more adverse reactions related to mood and sleep disorders was 15.8%, 14.5%, and 20.6% with Qsymia 3.75 mg/23 mg, 7.5 mg/46 mg, and 15 mg/92 mg, respectively, compared to 10.3% with placebo. These events were further categorized into sleep disorders, anxiety, and depression. Reports of sleep disorders were typically characterized as insomnia, and occurred in 6.7%, 8.1%, and 11.1% of patients treated with Qsymia 3.75 mg/23 mg, 7.5 mg/46 mg, and 15 mg/92 mg, respectively, compared to 5.8% of patients treated with placebo. Reports of anxiety occurred in 4.6%, 4.8%, and 7.9% of patients treated with Qsymia 3.75 mg/23 mg, 7.5 mg/46 mg, and 15 mg/92 mg, respectively, compared to 2.6% of patients treated with placebo. Reports of depression/mood problems occurred in 5.0%, 3.8%, and 7.6% of patients treated with Qsymia 3.75 mg/23 mg, 7.5 mg/46 mg, and 15 mg/92 mg, respectively, compared to 3.4% of patients treated with placebo. The majority of these events first occurred within the initial 12 weeks of drug therapy; however, in some patients, events were reported later in the course of treatments. In the Qsymia clinical trials, the overall prevalence of mood and sleep adverse reactions was approximately twice as great in patients with a history of depression compared to patients without a history of depression; however, the proportion of patients on active treatment versus placebo who reported mood and sleep adverse reactions was similar in these two subgroups. Occurrence of depression-related events was more frequent in patients with a past history of depression across

all treatment groups. However, the placebo-adjusted difference in incidence of these events remained constant between groups regardless of previous depression history.

Cognitive Disorders

In the 1-year controlled trials of Qsymia, the proportion of patients who experienced one or more cognitive-related adverse reactions was 2.1% for Qsymia 3.75 mg/23 mg, 5.0% for Qsymia 7.5 mg/46 mg, and 7.6% for Qsymia 15 mg/92 mg, compared to 1.5% for placebo. These adverse reactions were comprised primarily of reports of problems with attention/concentration, memory, and language (word finding). These events typically began within the first 4 weeks of treatment, had a median duration of approximately 28 days or less, and were reversible upon discontinuation of treatment; however, individual patients did experience events later in treatment, and events of longer duration.

Laboratory Abnormalities

Serum Bicarbonate

In the 1-year controlled trials of Qsymia, the incidence of persistent treatment-emergent decreases in serum bicarbonate below the normal range (levels of less than 21 mEq/L at 2 consecutive visits or at the final visit) was 8.8% for Qsymia 3.75 mg/23 mg, 6.4% for Qsymia 7.5 mg/46 mg, and 12.8% for Qsymia 15 mg/92 mg, compared to 2.1% for placebo. The incidence of persistent, markedly low serum bicarbonate values (levels of less than 17 mEq/L on 2 consecutive visits or at the final visit) was 1.3% for Qsymia 3.75 mg/23 mg, 0.2% for Qsymia 7.5 mg/46 mg dose, and 0.7% for Qsymia 15 mg/92 mg dose, compared to 0.1% for placebo. Generally, decreases in serum bicarbonate levels were mild (average 1-3 mEq/L) and occurred early in treatment (4-week visit), however severe decreases and decreases later in treatment occurred.

Serum Potassium

In the 1-year controlled trials of Qsymia, the incidence of persistent low serum potassium values (less than 3.5 mEq/L at two consecutive visits or at the final visit) during the trial was 0.4% for Qsymia 3.75 mg/23 mg, 3.6% for Qsymia 7.5 mg/46 mg dose, and 4.9% for Qsymia 15 mg/92 mg, compared to 1.1% for placebo. Of the subjects who experienced persistent low serum potassium, 88% were receiving treatment with a non-potassium sparing diuretic.

The incidence of markedly low serum potassium (less than 3 mEq/L, and a reduction from pre-treatment of greater than 0.5 mEq/L) at any time during the trial was 0.0% for Qsymia 3.75 mg/23 mg, 0.2% for Qsymia 7.5 mg/46 mg dose, and 0.7% for Qsymia 15 mg/92 mg dose, compared to 0.0% for placebo. Persistent markedly low serum potassium (less than 3 mEq/L, and a reduction from pre-treatment of greater than 0.5 mEq/L at two consecutive visits or at the final visit) occurred in 0.0% of subjects receiving Qsymia 3.75 mg/23 mg, 0.2% receiving Qsymia 7.5 mg/46 mg dose, and 0.1% receiving Qsymia 15 mg/92 mg dose, compared to 0.0% receiving placebo.

Hypokalemia was reported by 0.4% of subjects treated with Qsymia 3.75 mg/23 mg, 1.4% of subjects treated with Qsymia 7.5 mg/46 mg, and 2.5% of subjects treated with Qsymia 15 mg/92 mg compared to 0.4% of subjects treated with placebo. "Blood potassium decreased"

was reported by 0.4% of subjects treated with Qsymia 3.75 mg/23 mg, 0.4% of subjects treated with Qsymia 7.5 mg/46 mg, 1.0% of subjects treated with Qsymia 15 mg/92 mg, and 0.0% of subjects treated with placebo.

Serum Creatinine

In the 1-year controlled trials of Qsymia, there was a dose-related increase from baseline, peaking between Week 4 to 8, which declined but remained elevated over baseline over 1 year of treatment. The incidence of increases in serum creatinine of greater than or equal to 0.3 mg/dL at any time during treatment was 2.1% for Qsymia 3.75 mg/23 mg, 7.2% for Qsymia 7.5 mg/46 mg, and 8.4% for Qsymia 15 mg/92 mg, compared to 2.0% for placebo. Increases in serum creatinine of greater than or equal to 50% over baseline occurred in 0.8% of subjects receiving Qsymia 3.75 mg/23 mg, 2.0% receiving Qsymia 7.5 mg/46 mg, and 2.8% receiving Qsymia 15 mg/92 mg, compared to 0.6% receiving placebo.

Nephrolithiasis

In the 1-year controlled trials of Qsymia, the incidence of nephrolithiasis was 0.4% for Qsymia 3.75 mg/23 mg, 0.2% for Qsymia 7.5 mg/46 mg, and 1.2% for Qsymia 15 mg/92 mg, compared to 0.3% for placebo.

Drug Discontinuation Due to Adverse Reactions

In the 1-year placebo-controlled clinical studies, 11.6% of Qsymia 3.75 mg/23 mg, 11.6% of Qsymia 7.5 mg/46 mg, 17.4% of Qsymia 15 mg/92 mg, and 8.4% of placebo-treated patients discontinued treatment due to reported adverse reactions. The most common adverse reactions that led to discontinuation of treatment are shown in Table 4.

Table 4. Adverse Reactions Greater Than or Equal To 1% Leading to Treatment Discontinuation (1-Year Clinical Trials)

Adverse Reaction Leading to Treatment Discontinuation^a	Placebo (N=1561) %	Qsymia 3.75 mg/23 mg (N=240) %	Qsymia 7.5 mg/46 mg (N=498) %	Qsymia 15 mg/92 mg (N=1580) %
Vision blurred	0.5	2.1	0.8	0.7
Headache	0.6	1.7	0.2	0.8
Irritability	0.1	0.8	0.8	1.1
Dizziness	0.2	0.4	1.2	0.8
Paraesthesia	0.0	0.4	1.0	1.1
Insomnia	0.4	0.0	0.4	1.6
Depression	0.2	0.0	0.8	1.3
Anxiety	0.3	0.0	0.2	1.1

^a greater than or equal to 1% in any treatment group

6.2 Postmarketing Experience

The following adverse reactions have been reported during post approval use of phentermine and topiramate, the components of Qsymia. Because these 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.

Qsymia

Psychiatric Disorders

Suicidal ideation, Suicidal behavior

Ophthalmic disorders

Acute angle closure glaucoma

Increased intraocular pressure

Phentermine

Allergic adverse reactions

Urticaria

Cardiovascular adverse reactions

Elevation of blood pressure, Ischemic events

Central nervous system adverse reactions

Euphoria, Psychosis, Tremor

Reproductive adverse reactions

Changes in libido, Impotence

Topiramate

Dermatologic disorders

Bullous skin reactions (including erythema multiforme, Stevens-Johnson syndrome, toxic epidermal necrolysis), Pemphigus

Gastrointestinal disorders

Pancreatitis

Hepatic disorders

Hepatic failure (including fatalities), Hepatitis

Metabolic disorders

Hyperammonemia

Hypothermia

Ophthalmic disorders

Maculopathy

7 DRUG INTERACTIONS

7.1 Monoamine Oxidase Inhibitors

Use of phentermine is contraindicated during or within 14 days following the administration of monoamine oxidase inhibitors because of the risk of hypertensive crisis.

7.2 Oral Contraceptives

Co-administration of multiple-dose Qsymia 15 mg/92 mg once daily with a single dose of oral contraceptive containing 35 µg ethinyl estradiol (estrogen component) and 1 mg norethindrone (progestin component), in obese otherwise healthy volunteers, decreased the exposure of ethinyl

estradiol by 16% and increased the exposure of norethindrone by 22% [see [Clinical Pharmacology \(12.3\)](#)].

Although this study did not specifically address the impact of the interaction on contraceptive efficacy, an increased risk of pregnancy is not anticipated. The primary determinant of contraceptive efficacy is the progestin component of the combination oral contraceptive, so higher exposure to the progestin would not be expected to be deleterious.

However, irregular bleeding (spotting) may occur more frequently due to both the increased exposure to the progestin and lower exposure to the estrogen, which tends to stabilize the endometrium. Patients should be informed not to discontinue their combination oral contraceptive if spotting occurs, but to notify their healthcare provider if the spotting is troubling to them.

7.3 CNS Depressants Including Alcohol

Specific drug interaction studies of Qsymia and alcohol or other CNS depressant drugs have not been performed. The concomitant use of alcohol or CNS depressant drugs (e.g., barbiturates, benzodiazepines, and sleep medications) with phentermine or topiramate may potentiate CNS depression such as dizziness or cognitive adverse reactions, or other centrally mediated effects of these agents. Therefore, if Qsymia is used with alcohol or other CNS depressants, the patient should be counseled regarding possible increased risk of CNS depression or side effects.

7.4 Non-Potassium Sparing Diuretics

Concurrent use of Qsymia with non-potassium sparing diuretics may potentiate the potassium-wasting action of these diuretics. Concomitant administration of hydrochlorothiazide alone with topiramate alone has been shown to increase the C_{max} and AUC of topiramate by 27% and 29%, respectively. When prescribing Qsymia in the presence of non-potassium-sparing medicinal products, patients should be monitored for hypokalemia [see [Warnings and Precautions \(5.17\)](#) and [Clinical Pharmacology \(12.3\)](#)].

7.5 Antiepileptic Drugs

Concomitant administration of phenytoin or carbamazepine with topiramate in patients with epilepsy, decreased plasma concentrations of topiramate by 48% and 40%, respectively, when compared to topiramate given alone [see [Clinical Pharmacology \(12.3\)](#)].

Concomitant administration of valproic acid and topiramate has been associated with hyperammonemia with and without encephalopathy. Concomitant administration of topiramate with valproic acid in patients has also been associated with hypothermia (with and without hyperammonemia). It may be prudent to examine blood ammonia in patients in whom the onset of hypothermia or encephalopathy has been reported [see [Clinical Pharmacology \(12.3\)](#)].

7.6 Carbonic Anhydrase Inhibitors

Concomitant use of topiramate, a component of Qsymia, with any other carbonic anhydrase inhibitor (e.g., zonisamide, acetazolamide, or dichlorphenamide) may increase the severity of

metabolic acidosis and may also increase the risk of kidney stone formation. Avoid the use of Qsymia with other drugs that inhibit carbonic anhydrase [see [Warnings and Precautions \(5.7\)](#)].

7.7 Pioglitazone

A decrease in the exposure of pioglitazone and its active metabolites were noted with the concurrent use of pioglitazone and topiramate in a clinical trial. The clinical relevance of these observations is unknown; however, when Qsymia is added to pioglitazone therapy or pioglitazone is added to Qsymia therapy, careful attention should be given to the routine monitoring of patients for adequate control of their diabetic disease state [see [Clinical Pharmacology \(12.3\)](#)].

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Qsymia is contraindicated in pregnant patients. The use of Qsymia can cause fetal harm and weight loss offers no clear clinical benefit to a pregnant patient (*see Clinical Considerations*). Available data from a pregnancy registry and epidemiologic studies indicate an increased risk in oral clefts (cleft lip with or without cleft palate) with first trimester exposure to topiramate, a component of Qsymia (*see Data*). When phentermine and topiramate were co-administered to rats at doses of 3.75 and 25 mg/kg, respectively [approximately 2 times the maximum recommended human dose (MRHD) based on area under the curve (AUC)], or at the same dose to rabbits (approximately 0.1 times and 1 time, respectively, the clinical exposures at the MRHD based on AUC), there were no drug-related malformations. However, structural malformations, including craniofacial defects and reduced fetal weights occurred in offspring of multiple species of pregnant animals administered topiramate at clinically relevant doses (*see Data*). Advise pregnant women of the potential risk to a fetus.

Clinical Considerations

Disease Associated Maternal and/or Embryo/Fetal Risk

Maternal obesity increases the risk for congenital malformations, including neural tube defects, cardiac malformations, oral clefts, and limb reduction defects. In addition, weight loss during pregnancy may result in fetal harm. Appropriate weight gain based on pre-pregnancy weight is currently recommended for all pregnant patients, including those who are already overweight or obese, due to the obligatory weight gain that occurs in maternal tissues during pregnancy.

Fetal/Neonatal Adverse Reactions

Qsymia can cause metabolic acidosis [see *Warnings and Precautions (5.7)*]. The effect of topiramate-induced metabolic acidosis has not been studied in pregnancy; however, metabolic acidosis in pregnancy (due to other causes) can cause decreased fetal growth, decreased fetal oxygenation, and fetal death, and may affect the fetus' ability to tolerate labor.

Data

Human Data

Data evaluating the risk of major congenital malformations and oral clefts with topiramate (a component of Qsymia) exposure during pregnancy is available from the North American Anti-Epileptic Drug (NAAED) Pregnancy Registry and from several larger retrospective

epidemiologic studies. The NAAED Pregnancy Registry suggested an estimated increase in risk for oral clefts of 9.60 (95% CI 3.60 - 25.70). Larger retrospective epidemiology studies showed that topiramate monotherapy exposure in pregnancy is associated with an approximately two to five-fold increased risk of oral clefts. The FORTRESS study found an excess risk of 1.5 (95% CI = -1.1 to 4.1) oral cleft cases per 1,000 infants exposed to topiramate during the first trimester.

Animal Data

Phentermine/Topiramate

Embryo-fetal development studies have been conducted in rats and rabbits with combination phentermine and topiramate treatment. Phentermine and topiramate co-administered to rats during the period of organogenesis (gestation day (GD) 6 through 17) caused reduced fetal body weights but did not cause fetal malformations at the maximum dose of 3.75 mg/kg phentermine and 25 mg/kg topiramate [approximately 2 times the maximum recommended human dose (MRHD) based on area under the curve (AUC) estimates for each active ingredient]. In a similar study in rabbits in which the same doses were administered from GD 6 through 18, no effects on embryo-fetal development were observed at approximately 0.1 times (phentermine) and 1 time (topiramate) clinical exposures at the MRHD based on AUC. Significantly lower maternal body weight gain was recorded at these doses in rats and rabbits.

A pre- and post-natal development study was conducted in rats with combination phentermine and topiramate treatment. There were no adverse maternal or offspring effects in rats treated throughout organogenesis and lactation with 1.5 mg/kg/day phentermine and 10 mg/kg/day topiramate (approximately 2 and 3 times clinical exposures at the MRHD, respectively, based on AUC). Treatment with higher doses of 11.25 mg/kg/day phentermine and 75 mg/kg/day topiramate (approximately 5 and 6 times maximum clinical doses based on AUC, respectively) caused reduced maternal body weight gain and offspring toxicity. Offspring effects included lower pup survival after birth, increased limb and tail malformations, reduced pup body weight and delayed growth, development, and sexual maturation without affecting learning, memory, or fertility and reproduction. The limb and tail malformations were consistent with results of animal studies conducted with topiramate alone.

Phentermine

Animal reproduction studies have not been conducted with phentermine. Limited data from studies conducted with the phentermine/topiramate combination indicate that phentermine alone was not teratogenic but resulted in lower body weight and reduced survival of offspring in rats at 5-fold the MRHD of Qsymia, based on AUC.

Topiramate

Topiramate causes developmental toxicity, including teratogenicity, at clinically relevant doses in multiple animal species.

Developmental toxicity, including teratogenicity, occurred at clinically relevant doses in multiple animal species in which topiramate was administered during the period of organogenesis (GD 6 – 15 in rodents, GD 6 – 18 in rabbits). In these studies, fetal malformations (primarily

craniofacial defects such as cleft palate), limb malformations (ectrodactyly, micromelia, and amelia), rib/vertebral column anomalies, and/or reduced fetal weights were observed at dosages ≥ 20 mg/kg in mice (approximately 2 times the MRHD of topiramate in Qsymia 15 mg/92 mg on a mg/m² basis), 20 mg/kg in rats (2 times the MRHD of Qsymia based on estimated AUC), and 35 mg/kg in rabbits (2 times the MRHD based on estimated AUC). When rats were administered topiramate from GD 15 through lactation day 20, reductions in pre- and/or post-weaning weights occurred at dosages ≥ 2 mg/kg (2 times the MRHD of Qsymia based on estimated AUC).

8.2 Lactation

Risk Summary

Topiramate and phentermine, components of Qsymia, are present in human milk. There are no data on the effects of topiramate and phentermine on milk production. Diarrhea and somnolence have been reported in breastfed infants with maternal use of topiramate. There are no data on the effects of phentermine in breastfed infants. Because of the potential for serious adverse reactions, including changes in sleep, irritability, hypertension, vomiting, tremor and weight loss in breastfed infants with maternal use of phentermine, advise patients that breastfeeding is not recommended during Qsymia therapy.

8.3 Females and Males of Reproductive Potential

Pregnancy Testing

Pregnancy testing is recommended in patients who can become pregnant before initiating Qsymia and monthly during Qsymia therapy [*see Warnings and Precautions (5.1), Use in Specific Populations (8.1)*].

Contraception

Females

Qsymia can cause fetal harm when administered to a pregnant patient [*see Use in Specific Populations (8.1)*]. Advise patients who can become pregnant to use effective contraception during therapy with Qsymia.

For patients taking combined oral contraceptives (COCs), use of Qsymia may cause irregular bleeding [*see Drug Interactions (7.2)*]. Advise patients not to discontinue taking their COC and to contact their healthcare provider.

8.4 Pediatric Use

Safety and effectiveness of Qsymia in pediatric patients below the age of 18 years have not been established and the use of Qsymia is not recommended in pediatric patients. Serious adverse reactions seen in pediatric patients using topiramate, a component of Qsymia, include acute angle glaucoma, oligohidrosis and hyperthermia, metabolic acidosis, cognitive and neuropsychiatric reactions, hyperammonemia and encephalopathy, and kidney stones.

Juvenile Animal Studies

Juvenile animal studies have not been conducted with Qsymia. When topiramate (30, 90, or 300 mg/kg/day) was administered orally to rats during the juvenile period of development (postnatal days 12 to 50), bone growth plate thickness was reduced in males at the highest dose.

8.5 Geriatric Use

In the Qsymia clinical trials, a total of 254 (7%) of the patients were 65 years of age and older. No overall differences in safety or effectiveness were observed between these subjects and younger subjects, but greater sensitivity of some older individuals cannot be ruled out.

Clinical studies of Qsymia did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy.

8.6 Renal Impairment

Compared to healthy volunteers, patients with moderate and severe renal impairment as estimated by the Cockcroft-Gault equation had higher phentermine and topiramate exposures.

No dose adjustments are necessary in patients with mild renal impairment. In patients with moderate (CrCl greater than or equal to 30 to less than 50 mL/min) and severe (CrCl less than 30 mL/min) renal impairment, the dose should not exceed Qsymia 7.5 mg/46 mg once daily.

Qsymia has not been studied in patients with end-stage renal disease on dialysis. Avoid Qsymia in this patient population [see [Dosage and Administration \(2.2\)](#) and [Clinical Pharmacology \(12.3\)](#)].

8.7 Hepatic Impairment

In patients with mild (Child-Pugh 5 - 6) and moderate (Child-Pugh 7 - 9) hepatic impairment, exposure to phentermine was higher compared to healthy volunteers. Exposure to topiramate, a component of Qsymia, was similar among patients with mild and moderate hepatic impairment and healthy volunteers.

No dose adjustments are necessary in patients with mild hepatic impairment. In patients with moderate hepatic impairment, the dose should not exceed Qsymia 7.5 mg/46 mg once daily.

Qsymia has not been studied in patients with severe hepatic impairment (Child-Pugh score 10 - 15). Avoid Qsymia in this patient population [see [Dosage and Administration \(2.3\)](#) and [Clinical Pharmacology \(12.3\)](#)].

9 DRUG ABUSE AND DEPENDENCE

9.1 Controlled Substance

Qsymia is controlled in Schedule IV of the Controlled Substances Act because it contains phentermine a Schedule IV drug. Any material, compound, mixture, or preparation that contains any quantity of phentermine is controlled as a Schedule IV drug.

Topiramate is not controlled in the Controlled Substances Act.

9.2 Abuse

Phentermine, a component of Qsymia, has a known potential for abuse.

Phentermine, a component of Qsymia, is related chemically and pharmacologically to the amphetamines. Amphetamines and other stimulant drugs have been extensively abused and the possibility of abuse of phentermine should be kept in mind when evaluating the desirability of including Qsymia as part of a weight reduction program. Abuse of amphetamines and related drugs (e.g., phentermine) may be associated with impaired control over drug use and severe social dysfunction. There are reports of patients who have increased the dosage of these drugs to many times than recommended.

9.3 Dependence

Qsymia has not been systematically studied for its potential to produce physical dependence. Physical dependence is a state that develops as a result of physiological adaptation in response to repeated drug use. Physical dependence manifests by drug-class-specific withdrawal symptoms after abrupt discontinuation or a significant dose reduction of a drug.

Limited information on the potential for physical dependence for the individual components of Qsymia is available. For topiramate, abrupt discontinuation has been associated with seizures in patients without a history of seizures or epilepsy. For phentermine, abrupt cessation following prolonged high dosage administration results in extreme fatigue and mental depression; changes are also noted on a sleep electroencephalogram. Thus, in situations where rapid withdrawal of Qsymia is required, appropriate medical monitoring is recommended.

10 OVERDOSAGE

In the event of a significant overdose with Qsymia, if the ingestion is recent, the stomach should be emptied immediately by gastric lavage or by induction of emesis. Appropriate supportive treatment should be provided according to the patient's clinical signs and symptoms.

Acute overdose of phentermine may be associated with restlessness, tremor, hyperreflexia, rapid respiration, confusion, aggressiveness, hallucinations, and panic states. Fatigue and depression usually follow the central stimulation. Cardiovascular effects include arrhythmia, hypertension or hypotension, and circulatory collapse. Gastrointestinal symptoms include nausea, vomiting, diarrhea, and abdominal cramps. Fatal poisoning usually terminates in convulsions and coma. Manifestations of chronic intoxication with anorectic drugs include severe dermatoses, marked insomnia, irritability, hyperactivity, and personality changes. A severe manifestation of chronic intoxication is psychosis, often clinically indistinguishable from schizophrenia.

Management of acute phentermine intoxication is largely symptomatic and includes lavage and sedation with a barbiturate. Acidification of the urine increases phentermine excretion. Intravenous phentolamine has been suggested for possible acute, severe hypertension, if this complicates phentermine overdose.

Topiramate overdose has resulted in severe metabolic acidosis. Other signs and symptoms include convulsions, drowsiness, speech disturbance, blurred vision, diplopia, mentation impaired, lethargy, abnormal coordination, stupor, hypotension, abdominal pain, agitation,

dizziness, and depression. The clinical consequences were not severe in most cases, but deaths have been reported after poly-drug overdoses involving gram amounts of topiramate. A patient who ingested a dose between 96 and 110 grams topiramate was admitted to hospital with coma lasting 20 to 24 hours followed by full recovery after 3 to 4 days.

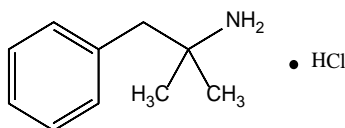
Activated charcoal has been shown to adsorb topiramate *in vitro*. Hemodialysis is an effective means of removing topiramate from the body.

11 DESCRIPTION

Qsymia capsule is a combination oral product comprised of immediate-release phentermine hydrochloride (expressed as the weight of the free base) and extended-release topiramate. Qsymia contains phentermine hydrochloride, a sympathomimetic amine anorectic, and topiramate, a sulfamate-substituted monosaccharide related to fructose antiepileptic drug.

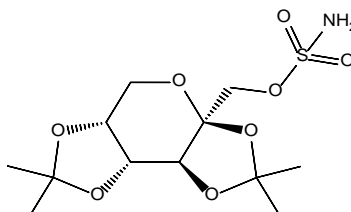
Phentermine Hydrochloride

The chemical name of phentermine hydrochloride is α,α -dimethylphenethylamine hydrochloride. The molecular formula is $C_{10}H_{15}N \cdot HCl$ and its molecular weight is 185.7 (hydrochloride salt) or 149.2 (free base). Phentermine hydrochloride is a white, odorless, hygroscopic, crystalline powder that is soluble in water, methanol, and ethanol. Its structural formula is:



Topiramate

Topiramate is 2,3:4,5-di-O-isopropylidene- β -D-fructopyranose sulfamate. The molecular formula is $C_{12}H_{21}NO_8S$ and its molecular weight is 339.4. Topiramate is a white to off-white crystalline powder with a bitter taste. It is freely soluble in methanol and acetone, sparingly soluble in pH 9 to pH 12 aqueous solutions and slightly soluble in pH 1 to pH 8 aqueous solutions. Its structural formula is:



Qsymia

Qsymia is available in four dosage strengths:

- Qsymia 3.75 mg/23 mg (phentermine 3.75 mg and topiramate 23 mg extended-release) capsules;
- Qsymia 7.5 mg/46 mg (phentermine 7.5 mg and topiramate 46 mg extended-release) capsules;

- Qsymia 11.25 mg/69 mg (phentermine 11.25 mg and topiramate 69 mg extended-release) capsules;
- Qsymia 15 mg/92 mg (phentermine 15 mg and topiramate 92 mg extended-release) capsules.

Each capsule contains the following inactive ingredients: methylcellulose, sucrose, starch, microcrystalline cellulose, ethylcellulose, povidone, gelatin, talc, titanium dioxide, FD&C Blue #1, FD&C Red #3, FD&C Yellow #5 and #6, and pharmaceutical black and white inks.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Phentermine is a sympathomimetic amine with pharmacologic activity similar to the prototype drugs of this class used in obesity, amphetamine (d- and d/l-amphetamine). Drugs of this class used in obesity are commonly known as "anorectics" or "anorexigenics." The effect of phentermine on chronic weight management is likely mediated by release of catecholamines in the hypothalamus, resulting in reduced appetite and decreased food consumption, but other metabolic effects may also be involved. The exact mechanism of action is not known.

The precise mechanism of action of topiramate on chronic weight management is not known. Topiramate's effect on chronic weight management may be due to its effects on both appetite suppression and satiety enhancement, induced by a combination of pharmacologic effects including augmenting the activity of the neurotransmitter gamma-aminobutyrate, modulation of voltage-gated ion channels, inhibition of AMPA/kainite excitatory glutamate receptors, or inhibition of carbonic anhydrase.

12.2 Pharmacodynamics

Typical actions of amphetamines include central nervous system stimulation and elevation of blood pressure. Tachyphylaxis and tolerance have been demonstrated with all drugs of this class in which these phenomena have been looked for.

Cardiac Electrophysiology

The effect of Qsymia on the QTc interval was evaluated in a randomized, double-blind, placebo- and active-controlled (400 mg moxifloxacin), and parallel group/crossover thorough QT/QTc study. A total of 54 healthy subjects were administered Qsymia 7.5 mg/46 mg at steady state and then titrated to Qsymia 22.5 mg/138 mg at steady state. Qsymia 22.5 mg/138 mg [a supra-therapeutic dose resulting in a phentermine and topiramate maximum concentration (C_{max}) of 4- and 3- times higher than those at Qsymia 7.5 mg/46 mg, respectively] did not affect cardiac repolarization as measured by the change from baseline in QTc.

Glomerular Filtration Rate (GFR)

Healthy obese men and women received Qsymia daily for 4 weeks (3.75 mg/23 mg on Days 1 to 3, 7.5 mg/46 mg on Days 4 to 6, 11.25 mg/69 mg on Days 7 to 9, and 15 mg/92 mg on Days 10 to 28). The glomerular filtration rate (GFR) of these participants was assessed via iothexol

clearance. On average, GFR decreased during Qsymia treatment and returned to baseline within 4 weeks after discontinuing Qsymia [See [Warnings and Precautions \(5.8\)](#)]

12.3 Pharmacokinetics

Phentermine

Upon oral administration of a single Qsymia 15 mg/92 mg, the resulting mean plasma phentermine maximum concentration (C_{\max}), time to C_{\max} (T_{\max}), area under the concentration curve from time zero to the last time with measureable concentration (AUC_{0-t}), and area under the concentration curve from time zero to infinity ($AUC_{0-\infty}$) are 49.1 ng/mL, 6 hr, 1990 ng·hr/mL, and 2000 ng·hr/mL, respectively. A high fat meal does not affect phentermine pharmacokinetics for Qsymia 15 mg/92 mg. Phentermine pharmacokinetics is approximately dose-proportional from Qsymia 3.75 mg/23 mg to phentermine 15 mg/topiramate 100 mg. Upon dosing phentermine/topiramate 15/100 mg fixed dose combination capsule to steady state, the mean phentermine accumulation ratios for AUC and C_{\max} are both approximately 2.5.

Topiramate

Upon oral administration of a single Qsymia 15 mg/92 mg, the resulting mean plasma topiramate C_{\max} , T_{\max} , AUC_{0-t} , and $AUC_{0-\infty}$, are 1020 ng/mL, 9 hr, 61600 ng·hr/mL, and 68000 ng·hr/mL, respectively. A high fat meal does not affect topiramate pharmacokinetics for Qsymia 15 mg/92 mg. Topiramate pharmacokinetics is approximately dose-proportional from Qsymia 3.75 mg/23 mg to phentermine 15 mg/topiramate 100 mg. Upon dosing phentermine 15 mg/topiramate 100 mg fixed dose combination capsule to steady state, the mean topiramate accumulation ratios for AUC and C_{\max} are both approximately 4.0.

Distribution

Phentermine

Phentermine is 17.5% plasma protein bound. The estimated phentermine apparent volume of distribution (V_d/F) is 348 L via population pharmacokinetic analysis.

Topiramate

Topiramate is 15 - 41% plasma protein bound over the blood concentration range of 0.5 to 250 µg/mL. The fraction bound decreased as blood topiramate increased. The estimated topiramate V_c/F (volume of the central compartment), and V_p/F (volume of the peripheral compartment) are 50.8 L, and 13.1 L, respectively, via population pharmacokinetic analysis.

Metabolism and Excretion

Phentermine

Phentermine has two metabolic pathways, namely p-hydroxylation on the aromatic ring and N-oxidation on the aliphatic side chain. Cytochrome P450 (CYP) 3A4 primarily metabolizes phentermine but does not show extensive metabolism. Monoamine oxidase (MAO)-A and MAO-B do not metabolize phentermine. Seventy to 80% of a dose exists as unchanged phentermine in urine when administered alone. The mean phentermine terminal half-life is about

20 hours. The estimated phentermine oral clearance (CL/F) is 8.79 L/h via population pharmacokinetic analysis.

Topiramate

Topiramate does not show extensive metabolism. Six topiramate metabolites (via hydroxylation, hydrolysis, and glucuronidation) exist, none of which constitutes more than 5% of an administered dose. About 70% of a dose exists as unchanged topiramate in urine when administered alone. The mean topiramate terminal half-life is about 65 hours. The estimated topiramate CL/F is 1.17 L/h via population pharmacokinetic analysis.

Specific Populations

Renal Impairment

A single-dose, open-label study was conducted to evaluate the pharmacokinetics of Qsymia 15 mg/92 mg in patients with varying degrees of chronic renal impairment compared to healthy volunteers with normal renal function. The study included patients with renal impairment classified on the basis of creatinine clearance as mild (greater or equal to 50 and less than 80 mL/min), moderate (greater than or equal to 30 and less than 50 mL/min), and severe (less than 30 mL/min). Creatinine clearance was estimated from serum creatinine based on the Cockcroft-Gault equation.

Compared to healthy volunteers, phentermine AUC_{0-inf} was 91%, 45%, and 22% higher in patients with severe, moderate, and mild renal impairment, respectively; phentermine C_{max} was 2% to 15% higher. Compared to healthy volunteers, topiramate AUC_{0-inf} was 126%, 85%, and 25% higher for patients with severe, moderate, and mild renal impairment, respectively; topiramate C_{max} was 6% to 17% higher. An inverse relationship between phentermine or topiramate C_{max} or AUC and creatinine clearance was observed.

Qsymia has not been studied in patients with end-stage renal disease on dialysis [*see Dosage and Administration (2.2), Warnings and Precautions (5.13), and Use in Specific Populations (8.7)*].

Hepatic Impairment

A single-dose, open-label study was conducted to evaluate the pharmacokinetics of Qsymia 15 mg/92 mg in healthy volunteers with normal hepatic function compared with patients with mild (Child-Pugh score 5 - 6) and moderate (Child-Pugh score 7 - 9) hepatic impairment. In patients with mild and moderate hepatic impairment, phentermine AUC was 37% and 60% higher compared to healthy volunteers. Pharmacokinetics of topiramate was not affected in patients with mild and moderate hepatic impairment when compared with healthy volunteers. Qsymia has not been studied in patients with severe hepatic impairment (Child-Pugh score 10 - 15) [*see Dosage and Administration (2.3), Warnings and Precautions (5.14), and Use in Specific Populations (8.7)*].

Drug Interactions

In Vitro Assessment of Drug Interactions

Phentermine

Phentermine is not an inhibitor of CYP isozymes CYP1A2, CYP2C9, CYP2C19, CYP2D6, CYP2E1, and CYP3A4, and is not an inhibitor of monoamine oxidases. Phentermine is not an inducer of CYP1A2, CYP2B6, and CYP3A4. Phentermine is not a P-glycoprotein substrate.

Topiramate

Topiramate is not an inhibitor of CYP isozymes CYP1A2, CYP2A6, CYP2B6, CYP2C9, CYP2D6, CYP2E1, and CYP3A4/5. However, topiramate is a mild inhibitor of CYP2C19. Topiramate is a mild inducer of CYP3A4. Topiramate is not a P-glycoprotein substrate.

Effects of Phentermine/Topiramate on Other Drugs

Table 5. Effect of Phentermine/Topiramate on the Pharmacokinetics of Co-administered Drugs

Phentermine/Topiramate	Co-administered Drug and Dosing Regimen		
	Drug and Dose (mg)	Change in AUC	Change in C _{max}
*15 mg/92 mg dose QD for 16 days	Metformin 500 mg BID for 5 days	↑ 23%	↑ 16%
*15 mg/92 mg dose QD for 21 days	Sitagliptin 100 mg QD for 5 days	↓ 3%	↓ 9%
15 mg/92 mg dose QD for 15 days	Oral contraceptive single dose norethindrone 1 mg ethinyl estradiol 35 mcg	↑ 16% ↓ 16%	↑ 22% ↓ 8%
*A single study examined the effect of multiple-dose Qsymia 15 mg/92 mg once daily on the pharmacokinetics of multiple-dose 500 mg metformin twice daily and multiple-dose 100 mg sitagliptin once daily in 10 men and 10 women (mean BMI of 27.1 kg/m ² and range of 22.2 – 32.7 kg/m ²). The study participants received metformin, sitagliptin, phentermine/topiramate only, phentermine/topiramate plus probenecid, phentermine/topiramate plus metformin, and phentermine/topiramate plus sitagliptin on Days 1 – 5, 6 – 10, 11 – 28, 29, 30 – 34, and 35 – 39, respectively.			

Effect of Other Drugs on Phentermine/Topiramate

Table 6. Effect of Co-administered Drugs on the Pharmacokinetics of Phentermine/Topiramate

Co-administered Drug and Dosing Regimen	Phentermine/Topiramate		
	Dose (mg)	Change in AUC	Change in C _{max}
Topiramate 92 mg single dose	15 mg phentermine single dose	↑ 42%	↑ 13%
Phentermine 15 mg single dose	92 mg topiramate single dose	↑ 6%	↑ 2%
*Metformin 500 mg BID for 5 days	15 mg/92 mg dose QD for 16 days phentermine topiramate	↑ 5% ↓ 5%	↑ 7% ↓ 4%
*Sitagliptin 100 mg QD for 5 days	15 mg/92 mg dose QD for 21 days phentermine topiramate	↑ 9% ↓ 2%	↑ 10% ↓ 2%
*Probenecid 2 g QD	15 mg/92 mg dose QD for 11 days phentermine topiramate	↓ 0.3% ↑ 0.7%	↑ 4% ↑ 3%
*The same single study examined the effect of multiple-dose 500 mg metformin twice daily, a single-dose 2 g probenecid, and multiple-dose 100 mg sitagliptin once daily on the pharmacokinetics of multiple-dose phentermine/topiramate 15 mg/92 mg once daily in 10 men and 10 women (mean BMI of 27.1 kg/m ² and range of 22.2 – 32.7 kg/m ²). The study participants received metformin, sitagliptin, phentermine/topiramate only, phentermine/topiramate plus probenecid, phentermine/topiramate plus metformin, and phentermine/topiramate plus sitagliptin on Days 1 – 5, 6 – 10, 11 – 28, 29, 30 – 34, and 35 – 39, respectively.			

Effects of Topiramate Alone on Other Drugs and Effects of Other Drugs on Topiramate

Antiepileptic Drugs

Potential interactions between topiramate and standard antiepileptic (AED) drugs were assessed in controlled clinical pharmacokinetic studies in patients with epilepsy. The effects of these interactions on mean plasma AUCs are summarized in Table 7.

In Table 7, the second column (AED concentration) describes what happens to the concentration of the AED listed in the first column when topiramate is added. The third column (topiramate concentration) describes how the co-administration of a drug listed in the first column modifies the concentration of topiramate in experimental settings when topiramate was given alone.

Table 7. Summary of AED Interactions with Topiramate

AED Co-administered	AED Concentration	Topiramate Concentration
Phenytoin	NC or 25% increase ^a	48% decrease
Carbamazepine (CBZ)	NC	40% decrease
CBZ epoxide ^b	NC	NE
Valproic acid	11% decrease	14% decrease
Phenobarbital	NC	NE
Primidone	NC	NE

Lamotrigine	NC at TPM doses up to 400 mg/day	13% decrease
^a Plasma concentration increased 25% in some patients, generally those on a twice a day dosing regimen of phenytoin. ^b Is not administered but is an active metabolite of carbamazepine. NC = Less than 10% change in plasma concentration; NE = Not Evaluated; TPM = topiramate		

Digoxin

In a single-dose study, serum digoxin AUC was decreased by 12% with concomitant topiramate administration. The clinical relevance of this observation has not been established.

Hydrochlorothiazide

A drug-drug interaction study conducted in healthy volunteers evaluated the steady-state pharmacokinetics of hydrochlorothiazide (HCTZ) (25 mg q24h) and topiramate (96 mg q12h) when administered alone and concomitantly. The results of this study indicate that topiramate C_{max} increased by 27% and AUC increased by 29% when HCTZ was added to topiramate. The clinical significance of this change is unknown. The steady-state pharmacokinetics of HCTZ were not significantly influenced by the concomitant administration of topiramate. Clinical laboratory results indicated decreases in serum potassium after topiramate or HCTZ administration, which were greater when HCTZ and topiramate were administered in combination.

Pioglitazone

A drug-drug interaction study conducted in healthy volunteers evaluated the steady-state pharmacokinetics of topiramate (96 mg twice daily) and pioglitazone (30 mg daily) when administered alone and concomitantly for 7 days. A 15% decrease in the area under the concentration-time curve during a dosage interval at steady state ($AUC_{\tau,ss}$) of pioglitazone with no alteration in maximum steady-state plasma drug concentration during a dosage interval ($C_{max,ss}$) was observed. This finding was not statistically significant. In addition, a 13% and 16% decrease in $C_{max,ss}$ and $AUC_{\tau,ss}$ respectively, of the active hydroxy-metabolite was noted as well as a 60% decrease in $C_{max,ss}$ and $AUC_{\tau,ss}$ of the active keto-metabolite. The clinical significance of these findings is not known.

Glyburide

A drug-drug interaction study conducted in patients with type 2 diabetes evaluated the steady-state pharmacokinetics of glyburide (5 mg/day) alone and concomitantly with topiramate (150 mg/day). There was a 22% decrease in C_{max} and a 25% reduction in AUC_{24} for glyburide during topiramate administration. Systemic exposure (AUC) of the active metabolites, 4-*trans*-hydroxyglyburide (M1), and 3-*cis*-hydroxyglyburide (M2), was reduced by 13% and 15%, and C_{max} was reduced by 18% and 25%, respectively. The steady-state pharmacokinetics of topiramate were unaffected by concomitant administration of glyburide.

Lithium

In patients, the pharmacokinetics of lithium were unaffected during treatment with topiramate at doses of 200 mg/day; however, there was an observed increase in systemic exposure of lithium (27% for C_{max} and 26% for AUC) following topiramate doses up to 600 mg/day. Lithium levels should be monitored when co-administered with high-dose topiramate.

Haloperidol

The pharmacokinetics of a single dose of haloperidol (5 mg) were not affected following multiple dosing of topiramate (100 mg every 12 hours) in 13 healthy adults (6 males, 7 females).

Amitriptyline

There was a 12% increase in AUC and C_{\max} for amitriptyline (25 mg per day) in 18 normal subjects (9 males, 9 females) receiving 200 mg/day of topiramate. Some subjects may experience a large increase in amitriptyline concentration in the presence of topiramate and any adjustments in amitriptyline dose should be made according to the patient's clinical response and not on the basis of plasma levels.

Sumatriptan

Multiple dosing of topiramate (100 mg every 12 hrs) in 24 healthy volunteers (14 males, 10 females) did not affect the pharmacokinetics of single-dose sumatriptan either orally (100 mg) or subcutaneously (6 mg).

Risperidone

When administered concomitantly with topiramate at escalating doses of 100, 250, and 400 mg/day, there was a reduction in risperidone systemic exposure (16% and 33% for steady-state AUC at the 250 and 400 mg/day doses of topiramate). No alterations of 9-hydroxyrisperidone levels were observed. Co-administration of topiramate 400 mg/day with risperidone resulted in a 14% increase in C_{\max} and a 12% increase in AUC₁₂ of topiramate. There were no clinically significant changes in the systemic exposure of risperidone plus 9-hydroxyrisperidone or of topiramate; therefore, this interaction is not likely to be of clinical significance.

Propranolol

Multiple dosing of topiramate (200 mg/day) in 34 healthy volunteers (17 males, 17 females) did not affect the pharmacokinetics of propranolol following daily 160 mg doses. Propranolol doses of 160 mg/day in 39 volunteers (27 males, 12 females) had no effect on the exposure to topiramate, at a dose of 200 mg/day of topiramate.

Dihydroergotamine

Multiple dosing of topiramate (200 mg/day) in 24 healthy volunteers (12 males, 12 females) did not affect the pharmacokinetics of a 1 mg subcutaneous dose of dihydroergotamine. Similarly, a 1 mg subcutaneous dose of dihydroergotamine did not affect the pharmacokinetics of a 200 mg/day dose of topiramate in the same study.

Diltiazem

Co-administration of diltiazem (240 mg Cardizem CD[®]) with topiramate (150 mg/day) resulted in a 10% decrease in C_{max} and a 25% decrease in diltiazem AUC, a 27% decrease in C_{max} and an 18% decrease in des-acetyl diltiazem AUC, and no effect on N-desmethyl diltiazem.

Co-administration of topiramate with diltiazem resulted in a 16% increase in C_{max} and a 19% increase in AUC₁₂ of topiramate.

Venlafaxine

Multiple dosing of topiramate (150 mg/day) in healthy volunteers did not affect the pharmacokinetics of venlafaxine or O-desmethyl venlafaxine. Multiple dosing of venlafaxine (150 mg extended release) did not affect the pharmacokinetics of topiramate.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Phentermine/Topiramate

No animal studies have been conducted with phentermine/topiramate, the combined products in Qsymia, to evaluate carcinogenesis, mutagenesis, or impairment of fertility. The following data are based on findings in studies performed individually with phentermine or topiramate, Qsymia's two active ingredients.

Phentermine

Phentermine was not mutagenic or clastogenic with or without metabolic activation in the Ames bacterial mutagenicity assay, a chromosomal aberration test in Chinese hamster lung (CHL-K1) cells, or an *in vivo* micronucleus assay.

Rats were administered oral doses of 3, 10, and 30 mg/kg/day phentermine for 2 years. There was no evidence of carcinogenicity at the highest dose of phentermine (30 mg/kg) which is approximately 11 to 15 times the maximum recommended clinical dose of Qsymia 15 mg/92 mg based on AUC exposure.

No animal studies have been conducted with phentermine to determine the potential for impairment of fertility.

Topiramate

Topiramate did not demonstrate genotoxic potential when tested in a battery of *in vitro* and *in vivo* assays. Topiramate was not mutagenic in the Ames test or the *in vitro* mouse lymphoma assay; it did not increase unscheduled DNA synthesis in rat hepatocytes *in vitro*; and it did not increase chromosomal aberrations in human lymphocytes *in vitro* or in rat bone marrow *in vivo*.

An increase in urinary bladder tumors was observed in mice given topiramate (20, 75, and 300 mg/kg) in the diet for 21 months. The elevated bladder tumor incidence, which was statistically significant in males and females receiving 300 mg/kg, was primarily due to the increased occurrence of a smooth muscle tumor considered histomorphologically unique to mice. Plasma exposures in mice receiving 300 mg/kg were approximately 2 to 4 times steady-state exposures measured in patients receiving topiramate monotherapy at the MRHD of Qsymia

15 mg/92 mg. The relevance of this finding to human carcinogenic risk is uncertain. No evidence of carcinogenicity was seen in rats following oral administration of topiramate for 2 years at doses up to 120 mg/kg (approximately 4 to 10 times the MRHD of Qsymia based on AUC estimates).

No adverse effects on male or female fertility were observed in rats at doses up to 100 mg/kg (approximately 4 to 8 times male and female MRHD exposures of Qsymia based on AUC).

14 CLINICAL STUDIES

The effect of Qsymia on weight loss in conjunction with reduced caloric intake and increased physical activity was studied in 2 randomized, double-blind, placebo-controlled studies in obese patients (Study 1) and in obese and overweight patients with two or more significant co-morbidities (Study 2). Both studies had a 4-week titration period, followed by 52 weeks of treatment. There were 2 co-primary efficacy outcomes measured after 1 year of treatment (Week 56): 1) the percent weight loss from baseline; and 2) treatment response defined as achieving at least 5% weight loss from baseline.

In Study 1, obese patients (BMI greater than or equal to 35 kg/m²) were randomized to receive 1 year of treatment with placebo (N=514), Qsymia 3.75 mg/23 mg (N=241), or Qsymia 15 mg/92 mg (N=512) in a 2:1:2 ratio. Patients ranged in age from 18-71 years old (mean age 43) and 83% were female. Approximately 80% were Caucasian, 18% were African American, and 15% were Hispanic/Latino. At the beginning of the study the average weight and BMI of patients was 116 kg and 42 kg/m², respectively. Patients with type 2 diabetes were excluded from participating in Study 1. During the study, a well-balanced, reduced-calorie diet to result in an approximate 500 kcal/day decrease in caloric intake was recommended to all patients and patients were offered nutritional and lifestyle modification counseling.

In Study 2, overweight and obese patients were randomized to receive 1 year of treatment with placebo (N=994), Qsymia 7.5 mg/46 mg (N=498), or Qsymia 15 mg/92 mg (N=995) in a 2:1:2 ratio. Eligible patients had to have a BMI greater than or equal to 27 kg/m² and less than or equal to 45 kg/m² (no lower limit on BMI for patients with type 2 diabetes) and two or more of the following obesity-related co-morbid conditions:

- Elevated blood pressure (greater than or equal to 140/90 mmHg, or greater than or equal to 130/85 mmHg for diabetics) or requirement for greater than or equal to 2 antihypertensive medications;
- Triglycerides greater than 200-400 mg/dL or were receiving treatment with 2 or more lipid-lowering agents;
- Elevated fasting blood glucose (greater than 100 mg/dL) or diabetes; and/or
- Waist circumference greater than or equal to 102 cm for men or greater than or equal to 88 cm for women.

Patients ranged in age from 19-71 years old (mean age 51) and 70% were female. Approximately 86% were Caucasian, 12% were African American, and 13% were Hispanic/Latino. The average weight and BMI of patients at the start of the study was 103 kg and 36.6 kg/m², respectively. Approximately half (53%) of patients had hypertension at the start

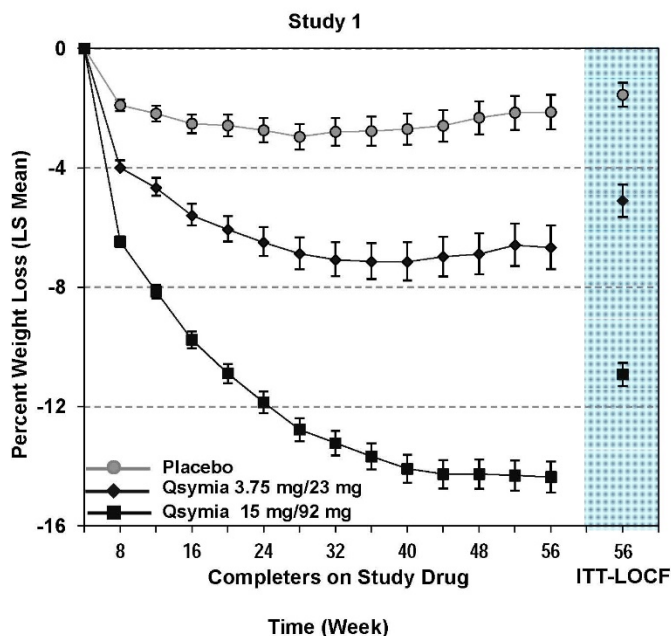
of the study. There were 388 (16%) patients with type 2 diabetes at the start of the study. During the study, a well-balanced, reduced-calorie diet to result in an approximate 500 kcal/day decrease in caloric intake was recommended to all patients and patients were offered nutritional and lifestyle modification counseling.

A substantial percentage of randomized patients withdrew from each study prior to week 56, 40% in Study 1, and 31% in Study 2.

Table 8 provides the results for the weight loss at 1 year in Studies 1 and 2. After 1 year of treatment with Qsymia, all dose levels resulted in statistically significant weight loss compared to placebo (Table 8, [Figures 1](#) and [2](#)). A statistically significant greater proportion of the patients randomized to Qsymia than placebo achieved 5% and 10% weight loss.

Table 8. Weight Loss at One Year in Study 1 and 2

Analysis Method	Study 1 (Obesity)			Study 2 (Overweight and Obese with Co-morbidities)		
	Placebo	Qsymia 3.75 mg/23 mg	Qsymia 15 mg/92 mg	Placebo	Qsymia 7.5 mg/46 mg	Qsymia 15 mg/92 mg
ITT-LOCF (Primary)*	n = 498	n = 234	n = 498	n = 979	n = 488	n = 981
Weight (kg)						
Baseline mean (SD)	115.7 (21.4)	118.6 (21.9)	115.2 (20.8)	103.3 (18.1)	102.8 (18.2)	103.1 (17.6)
% LS Mean Change from baseline (SE)**	-1.6 (0.4)	-5.1 (0.5) [†]	-10.9 (0.4) ^{†‡}	-1.2 (0.3)	-7.8 (0.4) [†]	-9.8 (0.3) ^{†‡}
Difference from placebo (95% CI)		3.5 (2.4-4.7)	9.4 (8.4-10.3)		6.6 (5.8-7.4)	8.6 (8.0-9.3)
Percentage of patients losing greater than or equal to 5% body weight	17%	45% [†]	67% ^{†‡}	21%	62% [†]	70% ^{†‡}
Risk Difference vs. placebo (95% CI)		27.6 (20.4-34.8)	49.4 (44.1-54.7)		41.3 (36.3-46.3)	49.2 (45.4-53.0)
Percentage of patients losing greater than or equal to 10% body weight	7%	19% [†]	47% ^{†‡}	7%	37% [†]	48% ^{†‡}
Risk Difference vs. placebo (95% CI)		11.4 (5.9-16.9)	39.8 (34.8-44.7)		29.9 (25.3-34.5)	40.3 (36.7-43.8)
SD=standard deviation; LS=least-squares; SE=standard error; CI=confidence interval						
* Uses all available data from subjects in ITT population, including data collected from subjects who discontinued drug but remained on study. Last Observation Carried Forward (LOCF) method used to impute missing data.						
[†] p < 0.0001 vs. placebo based on least-squares (LS) mean from an analysis of covariance.						
[‡] p < 0.01 vs. 3.75 mg/23 mg (Study 1) or 7.5 mg/46 mg (Study 2) dose.						
Type 1 error was controlled across all pairwise treatment comparisons.						
** Adjusted for baseline bodyweight (Study 1) and baseline bodyweight and diabetic status (Study 2).						



$p < 0.0001$ for all three Qsymia doses vs placebo, and 15 mg/92 mg vs 7.5 mg/46 mg or 3.75 mg/23 mg at all time points for both completers and ITT-LOCF

Figure 1. Study 1 Percent Weight Change

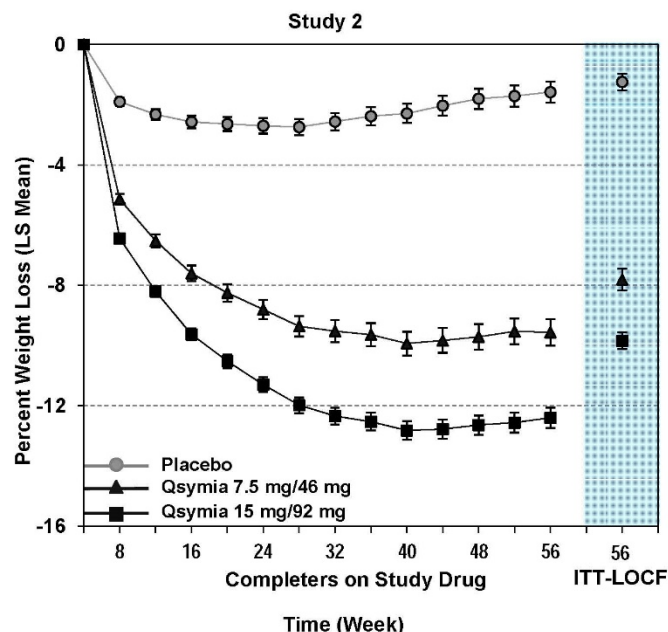


Figure 2. Study 2 Percent Weight Change

The changes in cardiovascular, metabolic, and anthropometric risk factors associated with obesity from Study 1 and 2 are presented in Table 9 and 10. One year of therapy with Qsymia resulted in relative improvement over placebo in several risk factors associated with obesity with the exception of heart rate [see [Warnings and Precautions \(5.2\)](#)].

Table 9. Least-Squares (LS) Mean[†] Change from Baseline and Treatment Difference from Placebo in Risk Factors Following One Year of Treatment in Study 1 (Obesity)

Study 1 (Obesity)	Placebo (N=498)	Qsymia 3.75 mg/23 mg (N=234)	Qsymia 15 mg/92 mg (N=498)	Qsymia – Placebo: LS Mean	
				Qsymia 3.75 mg/23 mg	Qsymia 15 mg/92 mg
Heart rate, bpm					
Baseline mean (SD)	73.2 (8.8)	72.3 (9.2)	73.1 (9.6)	+1.1	+1.8
LS Mean Change (SE)	-0.8 (0.5)	+0.3 (0.6)	+1.0 (0.5)		
Systolic blood pressure, mmHg					
Baseline mean (SD)	121.9 (11.5)	122.5 (11.1)	121.9 (11.6)	-2.8	-3.8
LS Mean Change (SE)	+0.9 (0.6)	-1.8 (0.8)	-2.9 (0.6)		
Diastolic blood pressure, mmHg					
Baseline mean (SD)	77.2 (7.9)	77.8 (7.5)	77.4 (7.7)	-0.5	-1.9
LS Mean Change (SE)	+0.4 (0.4)	-0.1 (0.6)	-1.5 (0.4)		
Total Cholesterol, %					
Baseline mean (SD)	194.3 (36.7)	196.3 (36.5)	192.7 (33.8)	-1.9	-2.5
LS Mean Change (SE)	-3.5 (0.6)	-5.4 (0.9)	-6.0 (0.6)		
LDL-Cholesterol, %					
Baseline mean (SD)	120.9 (32.2)	122.8 (33.4)	120.0 (30.1)	-2.2	-2.8
LS Mean Change (SE)	-5.5 (1.0)	-7.7 (1.3)	-8.4 (0.9)		
HDL-Cholesterol, %					
Baseline mean (SD)	49.5 (13.3)	50.0 (11.1)	49.7 (11.7)	+0.5	+3.5
LS Mean Change (SE)	+0.0 (0.8)	+0.5 (1.1)	+3.5 (0.8)		
Triglycerides, %					
Baseline mean (SD)	119.0 (39.3)	117.5 (40.3)	114.6 (37.1)	-3.9	-14.3
LS Mean Change (SE)	+9.1 (2.3)	+5.2 (3.1)	-5.2 (2.2)		
Fasting glucose, mg/dL					
Baseline mean (SD)	93.1 (8.7)	93.9 (9.2)	93.0 (9.5)	-1.2	-2.5
LS Mean Change (SE)	+1.9 (0.5)	+0.8 (0.7)	-0.6 (0.5)		
Waist Circumference, cm					
Baseline mean (SD)	120.5 (14.0)	121.5 (15.2)	120.0 (14.7)	-2.5*	-7.8*
LS Mean Change (SE)	-3.1 (0.5)	-5.6 (0.6)	-10.9 (0.5)		

SD=standard deviation; SE=standard error

* Statistically significant versus placebo based on the pre-specified method for controlling Type I error across multiple doses

† Study 1 adjusted for baseline bodyweight

Table 10. Least-Squares (LS) Mean* Change from Baseline and Treatment Difference from Placebo in Risk Factors Following One Year of Treatment in Study 2 (Overweight and Obese with Comorbidities)

Study 2 (Overweight and Obese with Comorbidities)	Placebo (N=979)	Qsymia 7.5 mg/46 mg (N=488)	Qsymia 15 mg/92 mg (N=981)	Qsymia – Placebo: LS Mean	
				Qsymia 7.5 mg/46 mg	Qsymia 15 mg/92 mg
Heart rate, bpm					
Baseline mean (SD)	72.1 (9.9)	72.2 (10.1)	72.6 (10.1)		
LS Mean Change (SE)	-0.3 (0.3)	+0.3 (0.4)	+1.4 (0.3)	+0.6	+1.7
Systolic Blood Pressure, mmHg					
Baseline mean (SD)	128.9 (13.5)	128.5 (13.6)	127.9 (13.4)		
LS Mean Change (SE)	-2.4 (0.48)	-4.7 (0.63)	-5.6 (0.5)	-2.3	-3.2
Diastolic Blood Pressure, mmHg					
Baseline mean (SD)	81.1 (9.2)	80.6 (8.7)	80.2 (9.1)		
LS Mean Change (SE)	-2.7 (0.3)	-3.4 (0.4)	-3.8 (0.3)	-0.7	-1.1
Total Cholesterol, %					
Baseline mean (SD)	205.8 (41.7)	201.0 (37.9)	205.4 (40.4)		
LS Mean Change (SE)	-3.3 (0.5)	-4.9 (0.7)	-6.3 (0.5)	-1.6	-3.0
LDL-Cholesterol, %					
Baseline mean (SD)	124.2 (36.2)	120.3 (33.7)	123.9 (35.6)		
LS Mean Change (SE)	-4.1 (0.9)	-3.7 (1.1)	-6.9 (0.9)	+0.4	-2.8
HDL-Cholesterol, %					
Baseline mean (SD)	48.9 (13.8)	48.5 (12.8)	49.1 (13.8)		
LS Mean Change (SE)	+1.2 (0.7)	+5.2 (0.9)	+6.8 (0.7)	+4.0	+5.6
Triglycerides, %					
Baseline mean (SD)	163.5 (76.3)	161.1 (72.2)	161.9 (73.4)		
LS Mean Change (SE)	+4.7 (1.7)	-8.6 (2.2)	-10.6 (1.7)	-13.3	-15.3
Fasting Insulin, (μIU/mL)					
Baseline mean (SD)	17.8 (13.2)	18.0 (12.9)	18.4 (17.5)		
LS Mean Change (SE)	+0.7 (0.8)	-3.5 (1.1)	-4.0 (0.8)	-4.2	-4.7
Fasting glucose, mg/dL					
Baseline mean (SD)	106.6 (23.7)	106.2 (21.0)	105.7 (21.4)		
LS Mean Change (SE)	+2.3 (0.6)	-0.1 (0.8)	-1.3 (0.6)	-2.4	-3.6
Waist Circumference, cm					
Baseline mean (SD)	113.4 (12.2)	112.7 (12.4)	113.2 (12.2)		
LS Mean Change (SE)	-2.4 (0.3)	-7.6 (0.4)	-9.2 (0.3)	-5.2*	-6.8*

SD=standard deviation; SE=standard error

* Statistically significant versus placebo based on the pre-specified method for controlling Type I error across multiple doses

† Study 2 adjusted for baseline bodyweight and diabetic status

Among the 388 subjects with type 2 diabetes treated in study 2, reductions in HbA1c from baseline (6.8%) were 0.1% for placebo compared to 0.4% and 0.4% with Qsymia 7.5 mg/46 mg and Qsymia 15 mg/92 mg, respectively [*see Warnings and Precautions (5.9)*].

16 HOW SUPPLIED/STORAGE AND HANDLING

Qsymia is available as phentermine hydrochloride (expressed as the weight of the free base)/topiramate extended-release gelatin capsules in the following strengths and colors:

- 3.75 mg/23 mg [Purple cap imprinted with VIVUS, Purple body imprinted with 3.75/23]
- 7.5 mg/46 mg [Purple cap imprinted with VIVUS, Yellow body imprinted with 7.5/46]
- 11.25 mg/69 mg [Yellow cap imprinted with VIVUS, Yellow body imprinted with 11.25/69]
- 15 mg/92 mg [Yellow cap imprinted with VIVUS, White body imprinted with 15/92]

The capsules are supplied as follows:

Strength		NDC Code
Unit of Use Bottle (14 capsules)	3.75 mg/23 mg capsules	62541-201-14
Pharmacy Bottle (30 capsules)	3.75 mg/23 mg capsules	62541-201-30
Unit of Use Bottle (30 capsules)	7.5 mg/46 mg capsules	62541-202-30
Unit of Use Bottle (30 capsules)	15 mg/92 mg capsules	62541-204-30
Pharmacy Bottle (30 capsules)	11.25 mg/69 mg capsules	62541-203-30
Starter Pack - Blister Configuration (28 Capsules)	3.75 mg/23 mg and 7.5 mg/46 mg capsules	62541-210-28
Dose Escalation Pack – Blister Configuration (28 Capsules)	11.25 mg/69 mg and 15 mg/92 mg capsules	62541-220-28

Store at controlled room temperature, 15°C to 25°C (59°F to 77°F). Keep container tightly closed and protect from moisture.

17 PATIENT COUNSELING INFORMATION

See FDA-approved patient labeling (Medication Guide).

Advise patients of the following:

Adjunctive Treatment

Qsymia is indicated for chronic weight management in conjunction with a reduced-calorie diet and increased physical activity.

Access to Qsymia

Qsymia is only available through certified pharmacies that are enrolled in the Qsymia certified pharmacy network. Advise patients on how to access Qsymia through certified pharmacies. Additional information may be obtained via the website www.QsymiaREMS.com or by telephone at 1-888-998-4887.

Concomitant Use with Other Products

Advise patients to tell healthcare provider(s) about all medications, nutritional supplements, and vitamins (including any weight loss products) that are being taken or may be taken while on Qsymia.

How to take Qsymia

Advise patients to take Qsymia in the morning with or without food.

Advise patients to start treatment with Qsymia as follows:

- Take one Qsymia 3.75 mg/23 mg capsule once daily – in the morning - for the first 14 days
- After the first 14 days is complete, take one Qsymia 7.5 mg/46 mg capsule once daily – in the morning
- Do not take Qsymia 3.75 mg/23 mg and Qsymia 7.5/46 mg capsules together

If an increase in Qsymia dose is prescribed after medical evaluation, advise patients to increase the dose of Qsymia as follows:

- Take one Qsymia 11.25 mg/69 mg capsule once daily – in the morning - for 14 days
- After the 14 days is complete, take one Qsymia 15 mg/92 mg capsule once daily – in the morning
- Do not take Qsymia 11.25/69 mg and Qsymia 15 mg/92 mg capsules together

Advise patients to discontinue the Qsymia 15 mg/92 mg dose gradually by taking one Qsymia 15 mg/92 mg capsule every other day for at least one week before stopping in order to avoid a seizure.

Pregnancy

Qsymia can cause fetal harm and patients should avoid getting pregnant while taking Qsymia [see *Warnings and Precautions (5.1)*, *Drug Interactions (7.2)*, *Use in Specific Populations (8.3)*].

Advise patients who can become pregnant:

- that pregnancy testing is recommended before initiating Qsymia and monthly during therapy;
- to use effective contraception during Qsymia therapy;
- who experience spotting while taking a combined oral contraceptive to notify their healthcare provider;

- with a known or suspected pregnancy to stop Qsymia immediately and notify their healthcare provider.

Lactation

Advise patients that breastfeeding is not recommended with Qsymia treatment [see [Use in Specific Populations \(8.2\)](#)].

Elevation in Heart Rate

- Qsymia can increase resting heart rate [see [Warnings and Precautions \(5.2\)](#)].
- Advise patients to report symptoms of sustained periods of heart pounding or racing while at rest to their healthcare provider(s).

Suicidal Behavior and Ideation; Changes in Mood or Depression

Qsymia can increase the risk of mood changes, depression, and suicidal ideation [see [Warnings and Precautions \(5.5\)](#)].

- Advise patients to tell their healthcare provider(s) immediately if mood changes, depression, and suicidal ideation occur.

Acute Angle Closure Glaucoma

Qsymia can increase the risk of acute myopia and secondary angle closure glaucoma [see [Warnings and Precautions \(5.4\)](#)].

- Advise patients to report symptoms of severe and persistent eye pain or significant changes in their vision to their healthcare provider(s).

Cognitive Adverse Reactions

Qsymia can cause dizziness, confusion, concentration, and word-finding difficulties, or visual changes [see [Warnings and Precautions \(5.6\)](#)].

- Advise patients to tell their healthcare provider(s) about any changes in attention, concentration, memory, and/or difficulty finding words.
- Advise patients not to drive or operate machinery until they have gained sufficient experience on Qsymia to gauge whether it adversely affects their mental performance, motor performance, and/or vision.

Metabolic Acidosis

Qsymia can increase the risk of metabolic acidosis [see [Warnings and Precautions \(5.7\)](#)].

- Advise patients to tell their healthcare provider(s) about any factors that can increase the risk of acidosis (e.g. prolonged diarrhea, surgery, and high protein/low carbohydrate diet, and/or concomitant medications such as carbonic anhydrase inhibitors).

Hypoglycemia in Patients with Type 2 Diabetes Mellitus on Anti-diabetic Therapy

Weight loss may increase the risk of hypoglycemia in patients with type 2 diabetes mellitus treated with insulin and/or insulin secretagogues (e.g., sulfonylureas) [see [Warnings and Precautions \(5.9\)](#)].

- Advise patients with type 2 diabetes mellitus on anti-diabetic therapy to monitor their blood glucose levels and report symptoms of hypoglycemia to their healthcare provider(s)

CNS Depression with Concomitant CNS Depressants including Alcohol

The concomitant use of alcohol or central nervous system (CNS) depressant drugs (e.g., barbiturates, benzodiazepines, and sleep medications) with phentermine or topiramate may potentiate CNS depression or other centrally mediated effects of these agents, such as dizziness, cognitive adverse reactions, drowsiness, light-headedness, impaired coordination and somnolence [see [Warnings and Precautions \(5.11\)](#)].

- Advise patients not to drink alcohol while taking Qsymia.

Potential Seizures with Abrupt Withdrawal of Qsymia

Abrupt withdrawal of topiramate, a component of Qsymia, has been associated with seizures in individuals without a history of seizures or epilepsy.

- Advise patients not to abruptly stop Qsymia without first talking to their healthcare provider(s) [see [Dosage and Administration \(2.1\)](#)]

Kidney stones

Use of Qsymia has been associated with kidney stone formation [see [Warnings and Precautions \(5.15\)](#) and [Adverse Reactions \(6.1\)](#)].

- Advise patients to increase fluid intake to increase urinary output which can decrease the concentration of substances involved in kidney stone formation.
- Advise patients to report symptoms of severe side or back pain, and/or blood in their urine to their healthcare provider(s).

Oligohidrosis and Hyperthermia

Oligohidrosis (decreased sweating) has been reported in association with the use of topiramate, a component of Qsymia. Decreased sweating and an elevation in body temperature above normal characterized these cases.

- Advise patients to monitor for decreased sweating and increased body temperature during physical activity, especially in hot weather.



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Qsymia is a registered trademark of VIVUS, Inc.

Initial REMS approval: 07/2012
Most recent modification: 03/2021

NDA 22580

QSYMIA (phentermine and topiramate extended-release) Capsules
[Category: anorectic and antiepileptic]

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RISK EVALUATION AND MITIGATION STRATEGY (REMS)

I. GOAL

To inform prescribers and patients of reproductive potential about:

- the increased risk of congenital malformations, specifically orofacial clefts, in infants exposed to Qsymia during the first trimester of pregnancy
- the importance of pregnancy prevention for patients of reproductive potential receiving Qsymia
- the need to discontinue Qsymia immediately if pregnancy occurs.

II. REMS ELEMENTS

A. Medication Guide

The Medication Guide will be dispensed with each Qsymia prescription in accordance with 21 CFR 208.24.

The Medication Guide is part of the REMS and is appended.

B. Elements to Assure Safe Use

1. Training will be provided to healthcare providers who prescribe Qsymia

- a. VIVUS will ensure that training is made available to healthcare providers (HCPs) who prescribe Qsymia. VIVUS will ensure that the following training is available:
 - i. Online training available at the Qsymia REMS website
 - ii. Electronic training modules available from VIVUS medical liaisons during prescriber visits, at professional society meetings, and at medical educational venues
 - iii. Print training modules available at the Qsymia REMS website, from VIVUS medical liaisons during prescriber visits, at professional society

meetings, at medical educational venues, or by calling VIVUS Medical Information

- b. VIVUS will maintain a database of all HCPs (using a unique identifying number) who have completed the training. Completion of the training will be defined as:
 - i. For online training completed independently by the HCP, viewing of all module training screens and completion of the HCP registration form and post-training knowledge assessment questions
 - ii. For electronic or print training modules delivered in person by VIVUS medical liaisons, viewing of all module training materials and completion and submission (either electronically or by fax) to VIVUS of the HCP registration form and post-training knowledge assessment questions by the HCP
 - iii. For print training modules completed independently by the HCP, viewing of all module training materials and completion and submission by fax to VIVUS of the HCP registration form and post-training knowledge assessment questions.
 - iv. For print training modules completed independently by HCPs in integrated healthcare delivery systems, viewing of all module training materials and completion and submission to the integrated healthcare delivery system of the HCP registration form and post-training knowledge assessment questions. The integrated healthcare system will then forward the HCP registration forms and post-training knowledge assessment questions to VIVUS.
- c. On a monthly basis, VIVUS will compare the database of trained HCPs with the list of prescribers provided to VIVUS by certified pharmacies and by the pharmacy management systems to identify those Qsymia prescribers who have not yet completed the training, and will contact the identified prescribers to complete training. Ninety-five percent of untrained prescribers will be contacted and provided training materials or access to such materials within 30 days of identification.
- d. VIVUS will inform HCPs who have prescribed Qsymia of any substantial changes to the Qsymia REMS program, including
 - i. significant changes to the operation of the program, or
 - ii. changes to the Prescribing Information and Medication Guide that affect the risk-benefit profile of Qsymia.
- e. VIVUS will ensure that, as part of training, the following additional appended training materials that are part of the REMS are available to prescribers:
 - i. *Risk of Birth Defects with Qsymia* patient brochure
 - ii. *Healthcare Provider Counseling Tool for Patients of Reproductive Potential*
 - iii. *Prescriber Dosing and Management Checklist*

- f. The following appended training materials are part of the REMS:
 - i. Online Qsymia REMS training
 - ii. Print Qsymia REMS training
- g. In order to facilitate prescriber training and education, **A Dear Healthcare Provider (DHCP) letter** will be sent within 60 days of product approval and again at 12 and 24 months after product approval. The initial DHCP letter will be sent to HCPs who are likely to prescribe Qsymia or have written a prescription for an obesity medical treatment within the prior 12 month period. This includes, but is not limited to, general practitioners, family practitioners, internists, gynecologists, endocrinologists, cardiologists, and nurse practitioners/physician assistants. Subsequent DHCP letters will be sent to HCPs who are likely to prescribe Qsymia (as described above), HCPs who have written a prescription for an obesity medical treatment in the prior 12 months, and any HCP who has prescribed Qsymia within the prior 12 month period.
 - i. VIVUS will distribute the DHCP letters via electronic mail, through the mail, or via facsimile. The DHCP letter will include a link or URL for the Qsymia REMS website landing page.
 - ii. In order to further facilitate prescriber training and education, within 60 days of product approval, and again at 12 and 24 months after product approval, VIVUS will send a Dear Medical Society letter to the following professional organizations, and will request that the DHCP letter be provided to the members of the professional organizations:

American Academy of Family Physicians (AAFP)
American Academy of Nurse Practitioners (AANP)
American Academy of Physicians Assistants (AAPA)
American Association of Clinical Endocrinologists (AACE)
American Association of Diabetic Educators (AADE)
American Board of Physician Nutrition Specialists (ABPNS)
American College of Cardiology (ACC)
American College of Obstetricians and Gynecologists (ACOG)
American College of Physicians (ACP)
American College of Preventive Medicine (ACPM)
American Diabetes Association (ADA)
American Gastroenterological Association (AGA)
American Heart Association (AHA)
American Medical Association (AMA)
American Osteopathic Association (AOA)
American Pharmacists Association (APhA)
American Society for Metabolic and Bariatric Surgery (ASMBS)
American Society for Preventive Cardiology (ASPC)
American Society of Bariatric Physicians (ASBP)
The Endocrine Society (ENDO)
The Obesity Society (TOS)

- iii. The Dear Healthcare Provider and Dear Medical Society letters are part of the REMS and are appended.
- h. VIVUS will make the prescriber training materials, the DHCP and Dear Medical Society letters, the *Risk of Birth Defects with Qsymia* patient brochure, the *Healthcare Provider Counseling Tool for Patients of Reproductive Potential*, the *Prescriber Dosing and Management Checklist*, and professional labeling (including the Medication Guide) available via a dedicated REMS-specific link from the Qsymia website as well as through VIVUS Medical Information.

The Qsymia REMS website is part of the REMS; the landing page screen shot is appended

- i. VIVUS will maintain a REMS Support Center within VIVUS Medical Information to support prescribers and patients in interfacing with the REMS. VIVUS will ensure that all materials listed in or appended to the Qsymia REMS will be available on the Qsymia REMS website www.QsymiaREMS.com or by calling VIVUS Medical Information at 1-888-998-4887.

2. Pharmacies that dispense Qsymia will be specially certified

- a. VIVUS will ensure that Qsymia will only be dispensed by certified pharmacies.
- b. To become certified, each pharmacy, including each pharmacy chain, each independent retail pharmacy, and each mail order pharmacy, must designate an Authorized Representative to internally coordinate and oversee the Qsymia REMS program. The Authorized Representative must complete the Qsymia REMS Pharmacy Training Program, knowledge assessment questions and sign an enrollment form acknowledging the following:
 - i. the REMS requirement to provide a Medication Guide and the *Risk of Birth Defects with Qsymia* patient brochure to each patient each time Qsymia is dispensed
 - ii. a pharmacy management system is in place, and has been validated, to systematically direct that the Qsymia Medication Guide and the *Risk of Birth Defects with Qsymia* patient brochure be provided to each patient each time Qsymia is dispensed
 - iii. the pharmacy will refrain from reselling or transferring Qsymia to another pharmacy or distributor
 - iv. that pharmacists and staff involved with the dispensing of Qsymia will be trained before dispensing Qsymia about the risks associated with Qsymia and the REMS requirement to provide a Medication Guide and the *Risk of Birth Defects with Qsymia* patient brochure to each patient each time Qsymia is dispensed
 - v. that all Qsymia retail prescriptions, regardless of the method of payment, will be processed through the pharmacy management system

- vi. that the pharmacy and pharmacy personnel will cooperate with pharmacy survey and audit requirements
- vii. that the pharmacy will provide quarterly Qsymia REMS compliance reports to VIVUS as described in the REMS supporting document
- viii. that the pharmacy will provide a list of Qsymia prescribers to VIVUS as described in the REMS supporting document

The following appended materials are part of the REMS:

- Pharmacy Enrollment Form, Independent Pharmacy
- Pharmacy Enrollment Form, Corporate Entity of Retail Chain Pharmacy
- Pharmacy Enrollment Form, Mail Order Pharmacy
- Online Qsymia REMS Pharmacy Training module
- Print Qsymia REMS Pharmacy Training module

C. Implementation System

An implementation system will be established for the Qsymia REMS program to monitor and evaluate whether the Elements to Assure Safe Use are meeting the program's goals.

1. VIVUS will ensure that pharmacies dispensing Qsymia are specially certified using the criteria described above.
2. VIVUS will maintain a database (Certified Pharmacy Database) of all pharmacies [using a unique identification number] that are certified.
3. This database will also be accessible by pharmacy management systems and contract distributors as needed to implement the REMS.
4. A "Certified Pharmacy Locator" tool will be available on the Qsymia REMS website to assist patients and providers in locating certified pharmacies.
5. Pharmacy certification will be verified by the contract distributor(s) using the Certified Pharmacy Database prior to shipping Qsymia.
6. VIVUS will ensure that the pharmacy management system is configured to:
 - i. reject all prescriptions from non-certified pharmacies
 - ii. notify non-certified pharmacies that pharmacy certification is required to dispense Qsymia, and how to become certified
 - iii. notify the pharmacy if REMS-required prescriber data is missing, and to enter and submit such data prior to dispense
 - iv. direct the pharmacy to provide a Medication Guide and *Risk of Birth Defects with Qsymia* patient brochure with every Qsymia dispense.
7. VIVUS will ensure that a Qsymia REMS Pharmacy Support Center is maintained to support the pharmacy certification procedures and address any stakeholder questions from the pharmacies or distributors. The Qsymia REMS Pharmacy Support Center is available at 1-855-302-6698.
8. VIVUS will monitor distribution data and prescription dispensing data to ensure that only contract distributors are distributing Qsymia, and only certified pharmacies are dispensing Qsymia. Corrective action will be initiated

by VIVUS for distributors and pharmacies found non-compliant with the REMS.

9. VIVUS will conduct surveys and audits of certified pharmacies to ensure that Qsymia is being dispensed according to the REMS requirements. The pharmacies will submit REMS quarterly compliance reports to VIVUS as described in the REMS supporting document. If a certified pharmacy is found to be non-compliant, VIVUS will institute corrective action.
10. VIVUS will ensure that the online and print Qsymia REMS Pharmacy Training modules, Pharmacy Enrollment Forms, and Qsymia REMS Pharmacy Support Center contact information are available on the REMS Program website (www.QsymiaREMS.com) as well as by calling the Qsymia REMS Pharmacy Support Center (1-855-302-6698) or VIVUS Medical Information (1-888-998-4887).
 - i. VIVUS will ensure that the Qsymia REMS Pharmacy Training and Pharmacy Enrollment Forms can be completed online or in paper form and submitted to the Qsymia REMS Pharmacy Support Center by fax (1-855-302-6699).
 - ii. VIVUS will ensure that pharmacies that submit Pharmacy Enrollment Forms are notified within 48 hours of receipt of the enrollment form and advised of next steps to complete the certification. Processing of enrollment forms and pharmacy management systems verification will be required to complete the certification.
11. If there are substantive changes to the Qsymia REMS or REMS program, VIVUS will update all affected materials and notify certified pharmacies. Substantive changes are defined as:
 - i. significant changes to the operation of the Qsymia REMS or REMS Program, or
 - ii. changes to the Prescribing Information and Medication Guide that affect the risk-benefit profile of Qsymia

Based on monitoring and evaluation of these elements to assure safe use, VIVUS will take reasonable steps to improve implementation of these elements to meet the goals of the REMS.

D. Timetable for Submission of Assessments

VIVUS will submit REMS Assessments to FDA at 6 months and 12 months from the date of initial approval of the REMS, and annually thereafter. To facilitate inclusion of as much information as possible while allowing reasonable time to prepare the submission, the reporting interval covered by each assessment should conclude no earlier than 60 days before the submission date for that assessment. VIVUS will submit each assessment so that it will be received by the FDA on or before the due date.

RE-03-001-04

MEDICATION GUIDE
QSYMIA® (Kyoo sim ee' uh)
(phentermine and topiramate extended-release)
capsules, for oral use, CIV

Read this Medication Guide before you start taking Qsymia and each time you get a refill. There may be new information. This information does not take the place of talking to your healthcare provider about your medical condition or treatment. If you have any questions about Qsymia, talk to your healthcare provider or pharmacist.

What is the most important information I should know about Qsymia?

Qsymia can cause serious side effects, including:

- **Birth defects (cleft lip and cleft palate).** If you take Qsymia during pregnancy, your baby has a higher risk for birth defects called cleft lip and cleft palate. These defects can begin early in pregnancy, even before you know you are pregnant.

Patients who are pregnant must not take Qsymia.

Patients who can become pregnant should:

1. Have a pregnancy test before taking Qsymia and every month while taking Qsymia.
2. Use effective birth control (contraception) consistently while taking Qsymia. Talk to your healthcare provider about how to prevent pregnancy.

If you become pregnant while taking Qsymia, stop taking Qsymia immediately and tell your healthcare provider right away. Healthcare providers and patients should report all cases of pregnancy to:

- FDA MedWatch at 1-800-FDA-1088, and

Because of the risk for birth defects (cleft lip and cleft palate), Qsymia is available through a restricted program called the Qsymia Risk Evaluation and Mitigation Strategy (REMS). Qsymia is only available through certified pharmacies that participate in the Qsymia REMS program. Your healthcare provider can give you information about how to find a certified pharmacy. For more information, go to www.QsymiaREMS.com or call 1-888-998-4887

- **Increases in heart rate.** Qsymia can increase your heart rate at rest. Your healthcare provider should check your heart rate while you take Qsymia. Tell your healthcare provider if you experience, while at rest, a racing or pounding feeling in your chest lasting several minutes when taking Qsymia.
- **Suicidal thoughts or actions.** Topiramate, an ingredient in Qsymia, may cause you to have suicidal thoughts or actions.

Call your healthcare provider right away if you have any of these symptoms, especially if they are new, worse, or worry you:

- thoughts about suicide or dying
 - attempts to commit suicide
 - new or worse depression
 - new or worse anxiety
 - feeling agitated or restless
 - panic attacks
 - trouble sleeping (insomnia)
 - new or worse irritability
 - acting aggressive, being angry, or violent
 - acting on dangerous impulses
 - an extreme increase in activity and talking (mania)
 - other unusual changes in behavior or mood
- **Serious eye problems** which include:
 - any sudden decrease in vision, with or without eye pain and redness,
 - a blockage of fluid in the eye causing increased pressure in the eye (secondary angle closure glaucoma).

These problems can lead to permanent vision loss if not treated. Tell your healthcare provider right away if you have any new eye symptoms.

Qsymia can have other serious side effects. See **"What are the possible side effects of Qsymia?"**

What is Qsymia?

- Qsymia is a prescription medicine that contains phentermine and topiramate extended-release that may help some obese adults or some overweight adults who also have weight-related medical problems lose weight and keep the weight off.
- Qsymia should be used with a reduced calorie diet and increased physical activity.
- It is not known if Qsymia changes your risk of heart problems or stroke or of death due to heart problems or stroke.
- It is not known if Qsymia is safe and effective when taken with other prescription, over-the-counter, or herbal weight loss products.
- It is not known if Qsymia is safe and effective in children under 18 years old.

- Qsymia is a federally controlled substance (CIV) because it contains phentermine and can be abused or lead to drug dependence. Keep Qsymia in a safe place, to protect it from theft. Never give your Qsymia to anyone else, because it may cause death or harm them. Selling or giving away this medicine is against the law.

Who should not take Qsymia?

Do not take Qsymia if you:

- are pregnant, planning to become pregnant, or become pregnant during Qsymia treatment.
- have glaucoma.
- have thyroid problems (hyperthyroidism).
- are taking certain medicines called monoamine oxidase inhibitors (MAOIs) or have taken MAOIs in the past 14 days.
- are allergic to topiramate, sympathomimetic amines such as phentermine, or any of the ingredients in Qsymia. See the end of this Medication Guide for a complete list of ingredients in Qsymia.

What should I tell my healthcare provider before taking Qsymia?

Before taking Qsymia, tell your healthcare provider about all of your medical conditions, including if you:

- have had a heart attack or stroke.
- have or have had an abnormal heart rhythm.
- have or have had depression, mood problems, or suicidal thoughts or behavior.
- have eye problems, especially glaucoma. See **“Who should not take Qsymia?”**.
- have a history of too much acid in the blood (metabolic acidosis) or a condition that puts you at higher risk for metabolic acidosis such as
 - chronic diarrhea, surgery, a diet high in fat and low in carbohydrates (ketogenic diet), weak, brittle, or soft bones (osteomalacia, osteoporosis, osteopenia), or decreased bone density
- have type 2 diabetes and take medicine to control your blood sugar.
- have kidney problems, kidney stones, or are getting kidney dialysis.
- have liver problems.
- have seizures or convulsions (epilepsy).
- are breastfeeding or plan to breastfeed. Qsymia can pass into your breast milk and may harm your baby. You and your healthcare provider should decide if you will take Qsymia or breastfeed. You should not do both.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. Qsymia taken with other medicines may affect how each medicine works and may cause side effects.

Especially tell your healthcare provider if you take:

- **Birth control pills.** Tell your healthcare provider if your menstrual bleeding changes while you are taking birth control pills that contain both estrogen and progestin (combination oral contraceptives) and Qsymia.
- **Water pills** (diuretics) such as hydrochlorothiazide (HCTZ).
- **Any medicines that impair or decrease your thinking, concentration, or muscle coordination.**
- **Carbonic anhydrase inhibitors** such as ZONEGRAN (zonisamide), DIAMOX (acetazolamide) or NEPTAZANE (methazolamide).
- **Seizure medicines** such as valproic acid (DEPAKENE or DEPAKOTE).

Ask your healthcare provider or pharmacist for a list of these medicines, if you are not sure.

Know the medicines you take. Keep a list of them to show your healthcare provider and pharmacist each time you get a new medicine. Do not start a new medicine without talking to your healthcare provider.

How should I take Qsymia?

- Your healthcare provider should start you on a diet and exercise program when you start taking Qsymia. Stay on this program while you are taking Qsymia.
- **Do not** change your dose without talking to your healthcare provider.
- Qsymia can be taken with or without food.
- If you miss a dose of Qsymia, wait until the next morning to take your usual dose of Qsymia. **Do not** double your dose.
- **To start treatment with Qsymia**
 - Take 1 **Qsymia 3.75 mg/23 mg capsule** (Figure A) 1 time each morning for the first 14 days.
 - After taking Qsymia 3.75 mg/23 mg capsule for 14 days, then take 1 **Qsymia 7.5 mg/46 mg capsule** (Figure B) 1 time each morning.
- **After taking Qsymia for 12 weeks**
 - Your healthcare provider should either tell you to stop taking Qsymia **or** increase your dose of Qsymia if you do not lose a certain amount of weight within the **first** 12 weeks of treatment at the recommended dose.
- **If your healthcare provider increases the dose of Qsymia**
 - Take 1 **Qsymia 11.25 mg/69 mg capsule** (Figure C) 1 time each morning for 14 days.

- After taking 14 days of Qsymia 11.25 mg/69 mg capsule, then take 1 **Qsymia 15 mg/92 mg capsule** (Figure D) 1 time each morning.

- **Stopping Qsymia treatment**

Your healthcare provider should tell you to stop taking Qsymia if you have not lost a certain amount of weight after an **additional** 12 weeks of treatment on the higher dose.

Do not stop taking Qsymia without talking to your healthcare provider. **Stopping Qsymia suddenly can cause serious problems, such as seizures.** Your healthcare provider will tell you how to stop taking Qsymia slowly.

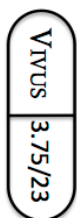


Figure A

Qsymia (3.75 mg/23 mg)
Cap and body are purple with white printing

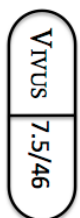


Figure B

Qsymia (7.5 mg/46 mg)
Cap is purple with white printing and the body is yellow with black printing

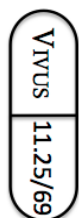


Figure C

Qsymia (11.25 mg/69 mg)
Cap and body are yellow with black printing



Figure D

Qsymia (15 mg/92 mg)
Cap is yellow with black printing and the body is white with black printing

If you take too much Qsymia, call your healthcare provider or go to the nearest emergency room right away.

What should I avoid while taking Qsymia?

- **Do not get pregnant while taking Qsymia.** See “What is the most important information I should know about Qsymia.”
- **Do not drink alcohol while taking Qsymia.** Qsymia and alcohol can affect each other causing side effects such as sleepiness or dizziness.
- **Do not drive a car, operate heavy machinery, or do other dangerous activities until you know how Qsymia affects you.** Qsymia can slow your thinking and motor skills, and may affect vision.

What are the possible side effects of Qsymia?

Qsymia can cause serious side effects, including:

- See “What is the most important information I should know about Qsymia?” at the beginning of this Medication Guide.
- **Mood changes and trouble sleeping.** Qsymia may cause depression or mood problems, and trouble sleeping. Tell your healthcare provider if symptoms occur.

- **Concentration, memory, and speech difficulties.** Qsymia may affect how you think and cause confusion, problems with concentration, attention, memory, or speech. Tell your healthcare provider if symptoms occur.
- **Increases of acid in bloodstream (metabolic acidosis).** If left untreated, metabolic acidosis can cause brittle or soft bones (osteoporosis, osteomalacia, osteopenia), kidney stones, can slow the rate of growth in children, and may possibly harm your baby if you are pregnant. Metabolic acidosis can happen with or without symptoms. Sometimes people with metabolic acidosis will:
 - feel tired
 - not feel hungry (loss of appetite)
 - feel changes in heartbeat
 - have trouble thinking clearly
 Your healthcare provider should do a blood test to measure the level of acid in your blood before and during your treatment with Qsymia.
- **Low blood sugar (hypoglycemia) in people with type 2 diabetes mellitus who also take medicines used to treat type 2 diabetes mellitus.** Weight loss can cause low blood sugar in people with type 2 diabetes mellitus who also take medicines used to treat type 2 diabetes mellitus (such as insulin or sulfonylureas). You should check your blood sugar before you start taking Qsymia and while you take Qsymia.
- **Possible seizures if you stop taking Qsymia too fast.** Seizures may happen in people who may or may not have had seizures in the past if you stop Qsymia too fast. Your healthcare provider will tell you how to stop taking Qsymia slowly.
- **Kidney stones.** Drink plenty of fluids when taking Qsymia to help decrease your chances of getting kidney stones. If you get severe side or back pain, or blood in your urine, call your healthcare provider.
- **Decreased sweating and increased body temperature (fever).** People should be watched for signs of decreased sweating and fever, especially in hot temperatures. Some people may need to be hospitalized for this condition.

Common side effects of Qsymia include:

- numbness or tingling in the hands, arms, feet, or face (paraesthesia)
- dizziness
- change in the way foods taste or loss of taste (dysgeusia)
- trouble sleeping (insomnia)
- constipation
- dry mouth

Tell your healthcare provider if you have any side effect that bothers you or does not go away.

These are not all of the possible side effects of Qsymia. For more information, ask your healthcare provider or pharmacist.

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

You can also report side effects to VIVUS at 1-888-998-4887.

How should I store Qsymia?

- Store Qsymia at room temperature between 59°F to 77°F (15°C to 25°C).

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

General Information about the safe and effective use of Qsymia.

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not use Qsymia for a condition for which it was not prescribed. Do not give Qsymia to other people, even if they have the same symptoms you have. It may harm them.

This Medication Guide summarizes the most important information about Qsymia. If you would like more information, talk with your healthcare provider. You can ask your pharmacist or healthcare provider for information about Qsymia that is written for health professionals.

For more information, go to www.QsymiaREMS.com or call 1-888-998-4887.

What are the ingredients in Qsymia?

Active Ingredient: phentermine hydrochloride and topiramate extended-release

Inactive Ingredients: methylcellulose, sucrose, starch, microcrystalline cellulose, ethylcellulose, povidone, gelatin, talc, titanium dioxide, FD&C Blue #1, FD&C Red #3, FD&C Yellow #5 and #6, and pharmaceutical black and white inks.



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This Medication Guide has been approved by the U.S. Food and Drug Administration

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