

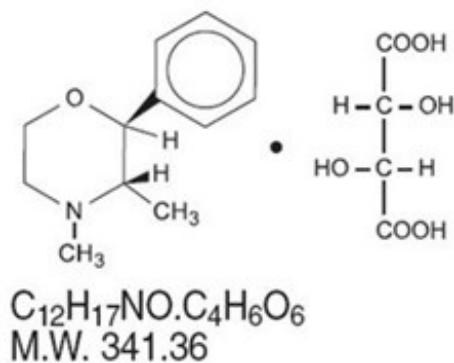
**PHENDIMETRAZINE TARTRATE - phendimetrazine tartrate capsule, extended release**  
**Physicians Total Care, Inc.**

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**Phendimetrazine**  
**Tartrate**  
**Extended-release Capsules CIII**

**DESCRIPTION**

Phendimetrazine tartrate, as the dextro isomer, has the chemical name of (2S,3S)-3,4-dimethyl-2-phenylmorpholine L-(+)-tartrate (1:1).

The structural formula is as follows:



Phendimetrazine tartrate is a white, odorless crystalline powder.

It is freely soluble in water; sparingly soluble in warm alcohol, insoluble in chloroform, acetone, ether and benzene. Each capsule, for oral administration, contains 105 mg phendimetrazine tartrate manufactured in a special base designed for prolonged release. Inactive ingredients: FD&C Blue No. 1, FD&C Red No. 40, gelatin, pharmaceutical glaze, povidone, silica gel, sodium lauryl sulfate, corn starch, sucrose, talc and trace amounts of red imprinting ink.

**CLINICAL PHARMACOLOGY**

Phendimetrazine tartrate is a phenylalkylamine sympathomimetic amine with pharmacological activity similar to the prototype drugs of this class used in obesity, the amphetamines. Actions 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.

Drugs of this class used in obesity are commonly known as "anorectics" or "anorexigenics". It has not been established, however, that the action of such drugs in treating obesity is primarily one of appetite suppression. Other central nervous system actions or metabolic effects, may be involved, for example. Adult obese subjects instructed in dietary management and treated with anorectic drugs, lose more weight on the average than those treated with placebo and diet, as determined in relatively short term clinical trials.

The magnitude of increased weight loss of drug-treated patients over placebo-treated patients is only a fraction of a pound a week. The rate of weight loss is greatest in the first weeks of therapy for both drug and placebo subjects and tends to decrease in succeeding weeks. The possible origins of the

increased weight loss due to the various drug effects are not established. The amount of weight loss associated with the use of an anorectic drug varies from trial to trial, and the increased weight loss appears to be related in part to variables other than the drug prescribed, such as the physician investigator, the population treated, and the diet prescribed. Studies do not permit conclusions as to the relative importance of the drug and non-drug factors on weight loss.

The natural history of obesity is measured in years, whereas the studies cited are restricted to a few weeks duration, thus, the total impact of drug-induced weight loss over that of diet alone must be considered clinically limited.

The active drug, 105 mg of phendimetrazine tartrate in each capsule of this special extended-release dosage form approximates the action of three 35 mg immediate release doses taken at four hour intervals.

The major route of elimination is via the kidneys where most of the drug and metabolites are excreted. Some of the drug is metabolized to phenmetrazine and also Phendimetrazine-N-oxide.

The average half-life of elimination when studied under controlled conditions is about 3.7 hours for both the extended-release and immediate release forms. The absorption half-life of the drug from the immediate release 35 mg phendimetrazine tablets is appreciably more rapid than the absorption rate of the drug from the extended-release formulation.

## **INDICATIONS AND USAGE**

Phendimetrazine tartrate extended-release capsules are indicated in the management of exogenous obesity as a short term adjunct (a few weeks) in a regimen of weight reduction based on caloric restriction in patients with an initial body mass index (BMI) of greater than or equal to 30 kg/m<sup>2</sup> or greater than or equal to 27 kg/m<sup>2</sup> in the presence of other risk factors (e.g., controlled hypertension, diabetes, hyperlipidemia) who have not responded to appropriate weight reducing regimen (diet and/or exercise) alone.

Below is a chart of Body Mass Index (BMI) based on various heights and weights.

BMI is calculated by taking the patient's weight, in kilograms (kg), divided by the patient's height, in meters (m), squared. Metric conversions are as follows: pounds ÷ 2.2 = kg; inches × 0.0254 = meters

Weight (pounds)	5'0"	5'3"	5'6"	5'9"	6'0"	6'3"
140	27	25	23	21	19	18
150	29	27	24	22	20	19
160	31	28	26	24	22	20
170	33	30	28	25	23	21
180	35	32	29	27	25	23
190	37	34	31	28	26	24
200	39	36	32	30	27	25
210	41	37	34	31	29	26
220	43	39	36	33	30	28
230	45	41	37	34	31	29
240	47	43	39	36	33	30
250	49	44	40	37	34	31

BODY MASS INDEX (BMI),  $\text{kg}/\text{m}^2$  Height (feet, inches)

The usefulness of agents of this class (see CLINICAL PHARMACOLOGY) should be measured against possible risk factors inherent in their use such as those described below.

Phendimetrazine tartrate is indicated for use as monotherapy only.

### CONTRAINDICATIONS

- History of cardiovascular disease (e.g., coronary artery disease, stroke, arrhythmias, congestive heart failure, uncontrolled hypertension, pulmonary hypertension)
- During or within 14 days following the administration of monoamine oxidase inhibitors
- Hyperthyroidism
- Glaucoma
- Agitated states
- History of drug abuse
- Pregnancy (see PRECAUTIONS, Pregnancy)
- Nursing
- Use in combination with other anorectic agents or CNS stimulants
- Known hypersensitivity or idiosyncratic reactions to sympathomimetics.

### WARNINGS

**Phendimetrazine tartrate should not be used in combination with other anorectic agents, including prescribed drugs, over-the-counter preparations and herbal products.**

In a case-control epidemiological study, the use of anorectic agents, including phendimetrazine tartrate, was associated with an increased risk of developing pulmonary hypertension, a rare, but often fatal disorder. The use of anorectic agents for longer than three months was associated with a 23-fold increase in the risk of developing pulmonary hypertension. Increased risk of pulmonary hypertension with repeated courses of therapy cannot be excluded.

The onset or aggravation of exertional dyspnea, or unexplained symptoms of angina pectoris, syncope, or lower extremity edema suggest the possibility of occurrence of pulmonary hypertension. Under these circumstances, phendimetrazine tartrate should be immediately discontinued, and the patient should be evaluated for the possible presence of pulmonary hypertension.

**Valvular heart disease associated with the use of some anorectic agents such as fenfluramine and dexfenfluramine has been reported. Possible contributing factors include use for extended periods of time, higher than recommended dose, and/or use in combination with other anorectic drugs.**

The potential risk of possible serious adverse effects such as valvular heart disease and pulmonary hypertension should be assessed carefully against the potential benefit of weight loss. Baseline cardiac evaluation should be considered to detect preexisting valvular heart diseases or pulmonary hypertension prior to initiation of phendimetrazine treatment. Phendimetrazine tartrate is not recommended in patients with known heart murmur or valvular heart disease. Echocardiogram during and after treatment could be useful for detecting any valvular disorders which may occur.

Tolerance to the anorectic effect of phendimetrazine develops within a few weeks. When this occurs, its use should be discontinued; the maximum recommended dose should not be exceeded. Use of phendimetrazine tartrate within 14 days following the administration of monoamine oxidase inhibitors may result in a hypertensive crisis. Abrupt cessation of administration following prolonged high dosage results in extreme fatigue and depression. Because of the effect on the central nervous system, phendimetrazine may impair the ability of the patient to engage in potentially hazardous activities such as operating machinery or driving a motor vehicle; the patient should therefore be cautioned accordingly.

Phendimetrazine tartrate is not recommended for patients who used any anorectic agents within the prior year.

## **PRECAUTIONS**

### **General**

Caution is to be exercised in prescribing phendimetrazine tartrate for patients with even mild hypertension.

Insulin or oral hypoglycemic medication requirements in diabetes mellitus may be altered in association with the use of phendimetrazine and the concomitant dietary regimen.

Phendimetrazine may decrease the hypotensive effect of guanethidine.

The least amount feasible should be prescribed or dispensed at one time in order to minimize the possibility of overdose.

### **Carcinogenesis, Mutagenesis, Impairment of Fertility**

Studies with phendimetrazine tartrate sustained release have not been performed to evaluate carcinogenic potential, mutagenic potential or effects on fertility.

### **Pregnancy**

#### **Pregnancy Category X**

Phendimetrazine tartrate is contraindicated during pregnancy because weight loss offers no potential benefit to a pregnant woman and may result in fetal harm. A minimum weight gain, and no weight loss, is currently recommended for all pregnant women, including those who are already overweight or obese, due to obligatory weight gain that occurs in maternal tissues during pregnancy. Phendimetrazine tartrate, a phenylalkylamine sympathomimetic amine has pharmacological activity similar to amphetamines (see **CLINICAL PHARMACOLOGY**). Animal reproduction studies have not been conducted in

phendimetrazine tartrate. If this drug is used during pregnancy, or if the patient becomes pregnant while taking this drug, the patient should be apprised of the potential hazard to a fetus.

### **Nursing Mothers**

It is not known if phendimetrazine tartrate is excreted in human milk. Phendimetrazine tartrate, a phenylalkylamine sympathomimetic amine, has pharmacological activity similar to the amphetamines (see **CLINICAL PHARMACOLOGY**), and other amphetamines are present in human milk. Because of the potential for serious adverse reactions in nursing infants, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother.

### **Drug Interactions**

#### ***Monoamine Oxidase Inhibitors***

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

#### ***Alcohol***

Concomitant use of alcohol with phendimetrazine tartrate may result in an adverse drug reaction.

#### ***Insulin and Oral Hypoglycemic Medications***

Requirements may be altered

#### ***Adrenergic Neuron Blocking Drugs***

phendimetrazine tartrate may decrease the hypotensive effect of adrenergic neuron blocking drugs.

### **Pediatric Use**

Safety and effectiveness in pediatric patients have not been established. Because pediatric obesity is a chronic condition requiring long-term treatment, the use of phendimetrazine tartrate ER approved for short-term therapy, is not recommended in patients less than 17 years of age.

### **Renal Impairment**

Phendimetrazine tartrate extended-release capsules were not studied in patients with renal impairment. As phendimetrazine tartrate is excreted in urine, exposure increases can be expected in patients with renal impairment. Use caution when administering phendimetrazine tartrate to patients with renal impairment.

### **Geriatric Use**

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.

The major route of elimination is via the kidney where most of the drug and metabolites are excreted. The risk of toxic reactions to this drug may be greater in patients with impaired renal function. Because elderly patients are more likely to have decreased renal function, care should be taken in dose selection, and it may be useful to monitor renal function.

## **ADVERSE REACTIONS**

The following adverse reactions are described, or described in greater detail, in other sections:

- Primary pulmonary hypertension (see **Warnings**)
- Valvular heart disease (see **Warnings**)

-Effect on the ability to engage in potentially hazardous tasks (see **Warnings**)

-Withdrawal effects following prolonged high dosage administration (see **Drug Abuse and Dependence**)

The following adverse reactions to phendimetrazine have been identified:

### **Cardiovascular**

Primary pulmonary hypertension and/or regurgitant cardiac valvular disease, palpitation, tachycardia, elevated blood pressure, ischemic events.

### **Central Nervous System**

Overstimulation, restlessness, insomnia, agitation, flushing, tremor, sweating, dizziness, headache, psychotic state, blurring of vision.

### **Gastrointestinal**

Dryness of the mouth, nausea, stomach pain, diarrhea, constipation,

### **Genitourinary**

Urinary frequency, dysuria, changes in libido.

## **DRUG ABUSE AND DEPENDENCE**

### **Controlled Substance**

Phendimetrazine tartrate extended-release capsules are defined by the Drug Enforcement Administration as a Schedule III controlled substance.

### **Abuse**

Phendimetrazine tartrate is related chemically and pharmacologically to the amphetamines.

Amphetamines and related stimulant drugs have been extensively abused, and the possibility of abuse of phendimetrazine should be kept in mind when evaluating the desirability of including a drug as part of a weight reduction program.

### **Dependence**

Abuse of amphetamines and related drugs may be associated with intense psychological dependence and severe social dysfunction. There are reports of patients who have increased the dosage to many times that recommended. Abrupt cessation following prolonged high dosage administration results in extreme fatigue and mental depression; changes are also noted on the sleep EEG. Manifestations of chronic intoxication with anorectic drugs include severe dermatoses, marked insomnia, irritability, hyperactivity and personality changes. The most severe manifestation of chronic intoxications is psychosis, often clinically indistinguishable from schizophrenia.

## **OVERDOSAGE**

The least amount feasible should be prescribed or dispensed at one time in order to minimize the possibility of overdose.

### **Acute Overdosage**

Acute overdose with phendimetrazine tartrate may manifest itself by the following signs and symptoms: unusual restlessness, confusion, belligerence, hallucinations, and panic states. Fatigue and depression usually follow the central stimulation. Cardiovascular effects include tachycardia,

arrhythmias, hypertension, or hypotension and circulatory collapse. Gastrointestinal symptoms include nausea, vomiting, diarrhea, and abdominal cramps. Poisoning may result in convulsions, coma, and death.

The management of acute overdosage is largely symptomatic. It includes lavage and sedation with a barbiturate. If hypertension is marked, the use of a nitrate or rapid-acting alpha receptor-blocking agent should be considered. Experience with hemodialysis or peritoneal dialysis is inadequate to permit recommendations for its use.

### **Chronic Intoxication**

Manifestations of chronic intoxication with anorectic drugs include severe dermatoses, marked insomnia, irritability, hyperactivity and personality changes. The most serious manifestation of chronic intoxications is psychosis, often clinically indistinguishable from schizophrenia. See **Drug Abuse and Dependence**.

## **DOSAGE AND ADMINISTRATION**

### **Extended-release capsule**

Since the product is an extended-release dosage form, limit to one extended-release capsule (105 mg phendimetrazine tartrate) in the morning (30 to 60 minutes before morning meal).

Each extended-release capsule contains 105 mg phendimetrazine tartrate in a Brown/Clear capsule imprinted E 5254.

## **HOW SUPPLIED**

Phendimetrazine Tartrate, Extended-Release, 105 mg capsules

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Bottles of	NDC 54868-
07	3071-1

Bottles of	NDC 54868-
10	3071-2

Bottles of	NDC 54868-
30	3071-0

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Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature]. Protect from moisture. DISPENSE IN A TIGHT CONTAINER AS DEFINED IN THE USP.

**To report SUSPECTED ADVERSE REACTIONS, contact Sandoz Inc. at 1-800-525-8747 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch)**

Manufactured for Sandoz Inc.

Princeton, NJ 08540

Manufactured by Epic Pharma, LLC

Laurelton, NY 11413

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OS7715

MG#10805

Relabeling and Repackaging by:  
Physicians Total Care, Inc.  
Tulsa, Oklahoma 74146

Principal Display Panel

Phendimetrazine Tartrate  
Extended-Release Capsules  
105 mg  
Brown/ Clear  
Rx Only



PHENDIMETRAZINE TARTRATE

phendimetrazine tartrate capsule, extended release

Product Information			
Product Type	HUMAN PRESCRIPTION DRUG	Item Code (Source)	NDC:54868-3071(NDC:0185-5254)
Route of Administration	ORAL	DEA Schedule	CIII
Active Ingredient/Active Moiety			
Ingredient Name		Basis of Strength	Strength
PHENDIMETRAZINE TARTRATE (UNII: 6985IP0T80) (PHENDIMETRAZINE - UNII:AB2794W8KV)		PHENDIMETRAZINE TARTRATE	105 mg
Inactive Ingredients			
Ingredient Name			Strength
FD&C BLUE NO. 1 (UNII: H3R47K3TBD)			
FD&C RED NO. 40 (UNII: WZB9127XOA)			
GELATIN (UNII: 2G86QN327L)			
POVIDONE (UNII: FZ989GH94E)			
SILICON DIOXIDE (UNII: ETJ7Z6XBU4)			
SODIUM LAURYL SULFATE (UNII: 368GB5141J)			



<b>STARCH, CORN</b> (UNII: O8232NY3SJ)				
<b>SUCROSE</b> (UNII: C151H8M554)				
<b>TALC</b> (UNII: 7SEV7J4R1U)				
<b>SHELLAC</b> (UNII: 46N107B71O)				
<b>Product Characteristics</b>				
<b>Color</b>	BROWN (Brown/Clear)		<b>Score</b>	no score
<b>Shape</b>	CAPSULE (CAPSULE)		<b>Size</b>	19mm
<b>Flavor</b>			<b>Imprint Code</b>	E5254
<b>Contains</b>				
<b>Packaging</b>				
<b>#</b>	<b>Item Code</b>	<b>Package Description</b>	<b>Marketing Start Date</b>	<b>Marketing End Date</b>
1	NDC:54868-3071-0	30 in 1 BOTTLE		
2	NDC:54868-3071-1	07 in 1 BOTTLE		
3	NDC:54868-3071-2	10 in 1 BOTTLE, PLASTIC		
<b>Marketing Information</b>				
<b>Marketing Category</b>	<b>Application Number or Monograph Citation</b>		<b>Marketing Start Date</b>	<b>Marketing End Date</b>
NDA	NDA018074		05/11/2009	

**Labeler** - Physicians Total Care, Inc. (194123980)

Establishment			
Name	Address	ID/FEI	Business Operations
Physicians Total Care, Inc.		194123980	relabel, repack