DESCRIPTION

Pyridostigmine bromide is an orally active cholinesterase inhibitor. Chemically, pyridostigmine bromide is 3-hydroxy-1-methylpyridinium bromide dimethylcarbamate. Its structural formula is:

![Pyridostigmine Bromide Structural Formula]

Pyridostigmine bromide tablets, USP is available as a 60 mg tablet for oral administration. The tablet contains the following inactive ingredients: colloidal silicon dioxide, lactose anhydrous, magnesium stearate and stearic acid.

CLINICAL PHARMACOLOGY

Pyridostigmine bromide inhibits the destruction of acetylcholine by cholinesterase and thereby permits freer transmission of nerve impulses across the neuromuscular junction. Pyridostigmine is an analog of neostigmine (Prostigmin®), but differs from it in certain clinically significant respects; for example, pyridostigmine is characterized by a longer duration of action and fewer gastrointestinal side effects.

INDICATIONS AND USAGE

Pyridostigmine bromide tablets are useful in the treatment of myasthenia gravis.

CONTRAINDICATIONS

Pyridostigmine bromide is contraindicated in mechanical intestinal or urinary obstruction, and particular caution should be used in its administration to patients with bronchial asthma. Care should be observed in the use of atropine for counteracting side effects, as discussed below.
WARNINGS

Although failure of patients to show clinical improvement may reflect underdosage, it can also be indicative of overdosage. As is true of all cholinergic drugs, overdosage of pyridostigmine bromide may result in cholinergic crisis, a state characterized by increasing muscle weakness which, through involvement of the muscles of respiration, may lead to death. Myasthenic crisis due to an increase in the severity of the disease is also accompanied by extreme muscle weakness, and thus may be difficult to distinguish from cholinergic crisis on a symptomatic basis. Such differentiation is extremely important, since increases in doses of pyridostigmine bromide or other drugs of this class in the presence of cholinergic crisis or of a refractory or "insensitive" state could have grave consequences. Osserman and Genkins\textsuperscript{1} indicate that the differential diagnosis of the two types of crisis may require the use of Tensilon\textsuperscript{®} (edrophonium chloride) as well as clinical judgment. The treatment of the two conditions obviously differs radically. Whereas the presence of myasthenic crisis suggests the need for more intensive anticholinesterase therapy, the diagnosis of cholinergic crisis, according to Osserman and Genkins,\textsuperscript{1} calls for the prompt withdrawal of all drugs of this type. The immediate use of atropine in cholinergic crisis is also recommended.

Atropine may also be used to abolish or obtund gastrointestinal side effects or other muscarinic reactions; but such use, by masking signs of overdosage, can lead to inadvertent induction of cholinergic crisis.

For detailed information on the management of patients with myasthenia gravis, the physician is referred to one of the excellent reviews such as those by Osserman and Genkins\textsuperscript{2}, Grob\textsuperscript{3} or Schwab\textsuperscript{4,5}.

PRECAUTIONS

Pyridostigmine is mainly excreted unchanged by the kidney\textsuperscript{6,7,8}. Therefore, lower doses may be required in patients with renal disease, and treatment should be based on titration of drug dosage to effect\textsuperscript{6,7}.

Pregnancy

The safety of pyridostigmine bromide during pregnancy or lactation in humans has not been established. Therefore, use of pyridostigmine bromide in women who may become pregnant requires weighing the drug's potential benefits against its possible hazards to mother and child.

Pediatric Use

Safety and effectiveness in pediatric patients have not been established.

ADVERSE REACTIONS

The side effects of pyridostigmine bromide are most commonly related to overdosage and generally are of two varieties, muscarinic and nicotinic. Among those in the former group are nausea, vomiting, diarrhea, abdominal cramps, increased peristalsis, increased salivation, increased bronchial secretions, miosis and diaphoresis. Nicotinic side effects are comprised chiefly of muscle cramps, fasciculation and weakness. Muscarinic side effects can usually be counteracted by atropine, but for reasons shown in the preceding section the expedient is not without danger. As with any compound containing the bromide radical, a skin rash may be seen in an occasional patient. Such reactions usually subside promptly upon discontinuance of the medication.

To report SUSPECTED ADVERSE REACTIONS, contact Amneal Pharmaceuticals at 1-877-835-5472 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.
Dosage and Administration

Pyridostigmine bromide is available in tablets, each containing 60 mg pyridostigmine bromide.

Dosage: The size and frequency of the dosage must be adjusted to the needs of the individual patient. The average dose is ten 60-mg tablets daily, spaced to provide maximum relief when maximum strength is needed. In severe cases as many as 25 tablets a day may be required, while in mild cases one to six tablets a day may suffice.

Note: For information on a diagnostic test for myasthenia gravis, and for the evaluation and stabilization of therapy, please see product literature on Tensilon® (edrophonium chloride).

How Supplied

Pyridostigmine Bromide Tablets USP, 60 mg - Each white to off white, round, flat-faced tablet is debossed with "G3511" on one side and quadrisect on the other side.

They are available as follows:

Bottles of 100: NDC 0115-3511-01
Bottles of 500: NDC 0115-3511-02

IMPORTANT: These tablets are hygroscopic. Keep in a dry place with the silica gel enclosed. Dispense in a tightly-closed, light-resistant container as defined in the USP, with a child-resistant closure, as required. Store at 20° to 25°C (68° to 77°F) [see USP Controlled Room Temperature].

References


Manufactured by:
Amneal Pharmaceuticals Pvt. Ltd.
Ahmedabad 382220, INDIA

Distributed by:
Amneal Pharmaceuticals LLC
Bridgewater, NJ 08807

Product of Italy
Rev. 05-2019-01

Principal Display Panel - 60 mg Tablet Bottle Label
Pyridostigmine Bromide Tablets, USP

60 mg

CAUTION: EXTREMELY MOISTURE SENSITIVE, DO NOT REMOVE DESICCANT. CLOSE TIGHTLY.

Rx only
100 Tablets

Pyridostigmine Bromide Tablet

Product Information

Product Type: HUMAN PRESCRIPTION DRUG
Route of Administration: ORAL

Active Ingredient/Active Moiety

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Inactive Ingredients

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### Marketing Information

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**Labeler** - Amneal Pharmaceuticals of New York LLC (123797875)

### Establishment

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Revised: 1/2020

Amneal Pharmaceuticals of New York LLC