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APPROVAL PACKAGE FOR:

APPLICATION NUMBER(S)

NDA 19-386/S-022

Trade Name:

Brevibloc

Generic Name(s):

(Esmolol hydrochloride in sodium chloride)

Sponsor:

Baxter Healthcare Corporation

Agent:

Approval Date: May 28, 2003

Indication: Short-Term control of heart rate in patients with abnormally fast heart rhythms such as artrial fibrillation, atrial flutter or sinus tachycardia.

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APPLICATION NUMBER: 19-386 / 5-022

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DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration Rockville, MD 20857

NDA 19-386/S-022

Baxter Healthcare Corporation, Anesthesia & Critical Care Attention: Ms. Lidia Mostovy 95 Spring Street New Providence, NJ 07974

Dear Ms. Mostovy:

Please refer to your supplemental new drug application dated January 28, 2003, submitted under section 505(b) of the Federal Food, Drug, and Cosmetic Act for Brevibloc Double Strength Injection (esmolol hydrochloride) 20 mg/mL in 5 mL ready-to-use vials.

This supplemental new drug application provides for the marketing of a new double strength formulation in 5 mL vials. This formulation was approved for marketing in 100 mL bags on January 27, 2003 with the approval of S-020.

This supplement proposes the following changes to the package insert:

1. The following changes were made in the title under the BREVIBLOC PREMIXED INJECTION:

- a. (Esmolol Hydrochloride) changed to (Esmolol Hydrochloride in Sodium Chloride)
- b. The addition of the following on the next line: 2,500 mg/250 mL (10mg/mL)
- Iso-Osmotic Solution of Esmolol Hydrochloride in Sodium Chloride changed to Iso-Osmotic Solution of Esmolol Hydrochloride
- 2. The following changes were made in the title under BREVIBLOC PREMIXED INJECTION DOUBLE STRENGTH:
 - a. The title was changed from BREVIBLOC PREMIXED INJECTION to BREVIBLOC DOUBLE STRENGTH PREMIXED INJECTION
 - b. (Esmolol Hydrochloride) DOUBLE STRENGTH changed to (Esmolol Hydrochloride in Sodium Chloride)
 - c. The addition of the following on the next line: 2,000mg/100mL (20mg/mL)
 - Iso-Osmotic Solution of Esmolol Hydrochloride in Sodium Chloride changed to Iso-Osmotic Solution of Esmolol Hydrochloride
- 3. The following changes were made in the title under BREVIBLOC INJECTION:
 - a. (Esmolol Hydrochloride) changed to (Esmolol Hydrochloride in Sodium Chloride)
 - b. The addition of the following on the next line: 100 mg/10 mL (10mg/mL)
 - c. Iso-Osmotic Solution of Esmolol Hydrochloride in Sodium Chloride changed to Iso-Osmotic Solution of Esmolol Hydrochloride

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4. The addition of the following to the title:

BREVIBLOC DOUBLE STRENGTH INJECTION (Esmolol Hydrochloride in Sodium Chloride) 100 mg/5 mL (20 mg/mL) Ready-to-use Vials 5 mL Vials Iso-Osmotic Solution of Esmolol Hydrochloride For Intravenous Use Can be used for direct intravenous use. Esmolol Hydrochloride concentration = 20 milligrams/mL (20,000 micrograms/mL) Single Patient Use Only No Preservatives Added

The following changes were made to the title under BREVIBLOC CONCENTRATE:

a. The addition of the following line: 2,500 mg/10 mL (250 mg/mL)

6. The following paragraph was added at the end of the **Brevibloc Injection** subsection of the **DESCRIPTION** section:

100 mg, 5 mL DOUBLE STRENGTH Single Dose Vial – Each mL contains 20 mg Esmolol Hydrochloride, 4.1 mg Sodium Chloride, USP and Water for Injection, USP; buffered with 2.8 mg Sodium Acetate Trihydrate, USP and 0.546 mg Glacial Acetic Acid, USP. Sodium Hydroxide and/or Hydrochloric Acid added, as necessary to adjust pH to 5.0 (4.5-5.5).

7. The second sentence in the PRECAUTIONS/General subsection was changed from:

Extravasation of 20mg/mL may lead to a serious local reaction and possible skin necrosis.

To:

With BREVIBLOC CONCENTRATE, extravasation of 20mg/mL or higher may lead to a serious local reaction and possible skin necrosis.

8. The third paragraph in the PRECAUTIONS/General subsection was changed from:

Care should be taken in the intravenous administration of BREVIBLOC as sloughing of the skin and necrosis have been reported in association with infiltration and extravasation of intravenous infusions.

To:

Care should be taken in the intravenous administration of BREVIBLOC CONCENTRATE as sloughing of the skin and necrosis have been reported in association with infiltration and extravasation of intravenous infusions.

9. The following sentence was added as the third sentence of the first paragraph of the OVERDOSAGE/Acute Toxicity subsection:

Use of BREVIBLOC PREMIXED INJECTION and BREVIBLOC DOUBLE STRENGTH PREMIXED INJECTION may reduce the potential for dilution errors.

10. In the DOSAGE AND ADMINISTRATION section, the subsection title has been changed from:

Directions for Use of Brevibloc Premixed Injection and Brevibloc Premixed Injection DOUBLE STRENGTH

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