
HIGHLIGHTS OF PRESCRIBING INFORMATION These highlights do not include all the information needed to use CARMUSTINE FOR INJECTION safely and effectively. See full prescribing information for CARMUSTINE FOR INJECTION.

CARMUSTINE for injection, for intravenous use

Initial U.S. Approval: 1977

WARNING: MYELOSUPPRESSION and PULMONARY TOXICITY

See full prescribing information for complete boxed warning

• Suppression of marrow function, notably thrombocytopenia and leukopenia, is the most common and severe of the toxic effects of Carmustine for injection. Monitor blood counts. (5, 6).

• Pulmonary toxicity from Carmustine for injection appears to be dose related. Patients receiving greater than 1400 mg/m ² cumulative dose are at significantly higher risk than those receiving less (5, 6).

INDICATIONS AND USAGE

Carmustine for injection is a nitrosourea indicated as palliative therapy as a single agent or in established combination therapy with other approved chemotherapeutic agents in the following: (1)

- 1. Brain tumors glioblastoma, brainstem glioma, medulloblastoma, astrocytoma, ependymoma, and metastatic brain tumors (1)
- 2. Multiple myeloma-in combination with prednisone (1)
- 3. Relapsed or refractory Hodgkin's lymphoma in combination with other approved drugs (1)
- 4. Relapsed or refractory Non-Hodgkin's lymphomas in combination with other approved drugs (1)

DOSAGE AND ADMINISTRATION

- Recommended Dosage: As a single agent, 150 to 200 mg/m² Carmustine for Injection intravenously every 6 weeks as a single dose or divided into daily injections such as 75 to 100 mg/m² on 2 successive days. Adjust dose for combination therapy or in patients with reduced bone marrow reserve (2.1)
- Administer reconstituted solution only as a slow intravenous infusion over at least 2 hours. (2.2)

For injection: 100 mg of carmustine lyophilized powder in a single-dose vial for reconstitution and a vial containing 3mL sterile diluent (Dehydrated Alcohol Injection, USP) (3)

----- CONTRAINDICATIONS

• Hypersensitivity (4)

------ WARNINGS AND PRECAUTIONS ------

- Administration Reactions: Extravasation may occur; monitor infusion site closely during administration (5.3)
- Carcinogenicity: Potentially carcinogenic to humans. Monitor patient periodically for such signs and apprise the patient of the symptoms for which they need to seek medical help. (5.4)
- Ocular Toxicity: Has occurred when administered via unapproved intraarterial intracarotid route. (5.5)
- Embryo-Fetal toxicity: Can cause fetal harm. Advise females of reproductive potential of the potential risk to a fetus and to avoid pregnancy. (5.6)

ADVERSE REACTIONS Most common adverse reactions (>1%) are nausea, vomiting, renal toxicity, pneumonitis, pulmonary toxicity, myelosuppression (6) To report SUSPECTED ADVERSE REACTIONS, contact Accord Healthcare Inc. at 1-866-941-7875 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch. DRUG INTERACTIONS

- Cimetidine: Increased myelosuppression with concomitant use. (7.1)
- Phenobarbital: Induces carmustine metabolism, reducing exposure. May lead to reduced efficacy. (7.1)
- Phenytoin: Carmustine for Injection may reduce the efficacy of phenytoin. (7.2)
- Lactation: Advise lactating females not to breastfeed (8.2)

See 17 for PATIENT COUNSELING INFORMATION.

Revised: 1/2020

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FULL PRESCRIBING INFORMATION

WARNING: MYELOSUPPRESSION and PULMONARY TOXICITY

Myelosuppression

Carmustine for Injection causes suppression of marrow function (including thrombocytopenia and leukopenia), which may contribute to bleeding and overwhelming infections. [see Warnings and Precautions (5.1) and Adverse Reactions (6)]. Monitor blood counts weekly for at least 6 weeks after each dose. Adjust dosage based on nadir blood counts from the prior dose [see Dosage and Administration (2.1)]. Do not administer a repeat course of Carmustine for Injection until blood counts recover.

Pulmonary Toxicity

Carmustine for Injection causes dose-related pulmonary toxicity. Patients receiving greater than 1400 mg/m ²cumulative dose are at significantly higher risk than those receiving less. Delayed pulmonary toxicity can occur years after treatment, and can result in death, particularly in patients treated in childhood [see Adverse Reactions (6) and Use in Specific Populations (8.4)].

1 INDICATIONS AND USAGE

Carmustine for Injection is indicated as palliative therapy as a single agent or in established combination therapy in the following:

- Brain tumors glioblastoma, brainstem glioma, medulloblastoma, astrocytoma, ependymoma, and metastatic brain tumors.
- Multiple myeloma in combination with prednisone.
- Relapsed or refractory Hodgkin's lymphoma in combination with other approved drugs.
- Relapsed or refractory Non-Hodgkin's lymphomas in combination with other approved drugs.

2 DOSAGE AND ADMINISTRATION

2.1 Dosage

The recommended dose of Carmustine for Injection as a single agent in previously untreated patients is 150 to 200 mg/m² intravenously every 6 weeks. Administer as a single dose or divided into daily injections such as 75 to 100 mg/m² on two successive days. Lower the dose when Carmustine for Injection is used with other

myelosuppressive drugs or in patients in whom bone marrow reserve is depleted. Administer Carmustine for Injection for the duration according to the established regimen. Premedicate each dose with anti-emetics.

Adjust doses subsequent to the initial dose according to the hematologic response of the patient to the preceding dose. The following schedule is suggested as a guide to dosage adjustment:

Nadir Afte	Percentage of Prior Dose to be Given	
Leukocytes/mm ³	Platelets/mm ³	
>4000	>100,000	100%
3000-3999	75,000-99,999	100%
2000-2999	25,000-74,999	70%
<2000	<25,000	50%

The hematologic toxicity can be delayed and cumulative. Monitor blood counts weekly. Do not administer a repeat course of Carmustine for Injection until circulating blood elements have returned to acceptable levels (platelets above 100 Gi/L, leukocytes above 4 Gi/L and absolute neutrophil count above 1 Gi/L). The usual interval between courses is 6 weeks.

Evaluate renal function prior to administration and periodically during treatment. For patients with compromised renal function, monitor for toxicity more frequently. Discontinue Carmustine for Injection if the creatinine clearance is less than 10 mL/min. Do not administer Carmustine for Injection to patients with compromised renal function. Monitor transaminases and bilirubin periodically during treatment. *[see Adverse Reactions (6)].*

2.2 Preparation and Administration of Intravenous Solution

- Dissolve Carmustine for Injection with 3 mL of the supplied sterile diluent (Dehydrated Alcohol Injection, USP).
- Aseptically add 27 mL Sterile Water for Injection, USP.
 - Each mL of resulting solution contains 3.3 mg of Carmustine for Injection in 10% ethanol. Such solutions should be protected from light.
 - The reconstituted solution is a clear, colorless to yellowish solution.
- Once reconstituted, the solution must be further diluted with Sodium Chloride Injection, USP or 5% Dextrose Injection, USP.
 - Examine reconstituted vials for crystal formation prior to use. If crystals are observed, they may be re-dissolved by warming the vial to room temperature with agitation.
 - Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit.
 - After reconstitution as recommended, Carmustine for Injection is stable for 24 hours under refrigeration (2° to 8°C, 36° to 46°F) in glass container. Examine reconstituted vials for crystal formation prior to use. If crystals are observed, they may be redissolved by warming the vial to room temperature with agitation.
 - Vials reconstituted as directed and further diluted with 500 mL Sodium Chloride Injection, USP or 5% Dextrose Injection, USP, in glass or polypropylene containers

to a concentration of 0.2 mg/mL, should be stored at room temperature, protected from light and utilized within 8 hours. These solutions are also stable 24 hours under refrigeration (2° to 8°C, 36° to 46°F) and an additional 6 hours at room temperature protected from light.

- Administer reconstituted solution by slow intravenous infusion over at least two hours. Administration of Carmustine for Injection over a period of less than two hours can lead to pain and burning at the site of injection. Monitor the injected area during the administration. The rate of administration of the intravenous infusion should not be more than 1.66 mg/m²/min.
- See Section 16.2 for important instructions on the storage and handling of the injection. Carmustine for Injection is a cytotoxic drug. Follow applicable special handling and disposal procedures.¹
- The lyophilized dosage formulation contains no preservatives and is not intended for use as a multiple dose vial.

Accidental contact of reconstituted Carmustine for Injection with the skin has caused transient hyperpigmentation of the affected areas. Wear impervious gloves to minimize the risk of dermal exposure impervious gloves when handling vials containing Carmustine for Injection. Immediately wash the skin or mucosa thoroughly with soap and water if Carmustine for Injection lyophilized material or solution contacts the skin or mucosa ¹.

3 DOSAGE FORMS AND STRENGTHS

For injection: 100 mg of carmustine USP as a lyophilized powder in a single-dose vial for reconstitution and a vial containing 3 mL sterile diluent (Dehydrated Alcohol Injection, USP).

4 CONTRAINDICATIONS

Carmustine for Injection is contraindicated in patients with previous hypersensitivity to Carmustine for Injection or its components.

5 WARNINGS AND PRECAUTIONS

5.1 Myelosuppression

Bone marrow toxicity is a dose-limiting, common and severe toxic effect of Carmustine for Injection occurring 4-6 weeks after drug administration (thrombocytopenia occurs at about 4 weeks post-administration persisting for 1 to 2 weeks; leukopenia occurs at 5 to 6 weeks after a dose of Carmustine for Injection persisting for 1 to 2 weeks; thrombocytopenia is generally more severe than leukopenia; anemia is less frequent and less severe compared to thrombocytopenia and/or leukopenia) Complete blood count should therefore be monitored weekly for at least six weeks after a dose. Repeat doses of Carmustine for Injection is cumulative and therefore the dosage adjustment must be considered on the basis of nadir blood counts from prior dose [see Adverse Reactions (6)]. Greater myelotoxicity (e.g., leukopenia and neutropenia) has been reported when carmustine was combined with cimetidine [see

5.2 Pulmonary Toxicity

Cases of fatal pulmonary toxicity with Carmustine for Injection have been reported. Pulmonary toxicity characterized by pulmonary infiltrates and/or fibrosis has been reported to occur from 9 days to 43 months after treatment with Carmustine for Injection and related nitrosoureas. Pulmonary toxicity from Carmustine for Injection is dose-related. Patients receiving greater than 1400 mg/m² cumulative dose are at significantly higher risk than those receiving less. However, there have been reports of pulmonary fibrosis in patients receiving lower total doses. Interstitial fibrosis (with lower doses) occurred rarely. Additionally, delayed onset pulmonary fibrosis occurring up to 17 years after treatment has been reported in patients who received Carmustine for Injection (in cumulative doses ranging from 770 mg/m² to 1800 mg/m² combined with cranial radiotherapy for intracranial tumors) in childhood and early adolescence. Other risk factors include past history of lung disease and duration of treatment. Baseline pulmonary function studies should be conducted along with frequent pulmonary function tests during treatment. Patients with a baseline below 70% of the predicted forced vital capacity (FVC) or carbon monoxide diffusing capacity (DLCO) are particularly at risk.

5.3 Administration Reactions

Injection site reactions may occur during the administration of Carmustine for Injection. Rapid intravenous infusion of Carmustine for Injection may produce intensive flushing of the skin and suffusion of the conjunctiva within 2 hours, lasting about 4 hours. It is also associated with burning at the site of injection although true thrombosis is rare. Given the possibility of extravasation, close monitoring of the infusion site for possible infiltration during drug administration is recommended. A specific treatment for extravasation reactions is unknown at this time.

5.4 Carcinogenicity

Long-term use of nitrosoureas, such as Carmustine for Injection, has been reported to be associated with the development of secondary malignancies. Carmustine was carcinogenic when administered to laboratory animals *[see Nonclinical Toxicity (13.1)]*. Nitrosourea therapy, such as Carmustine for Injection, has carcinogenic potential in humans. Patients treated with Carmustine for Injection should be monitored long-term for development of second malignancies.

5.5 Ocular Toxicity

Carmustine for Injection has been administered through an intraarterial intracarotid route; this procedure is investigational and has been associated with ocular toxicity. Safety and effectiveness of the intraarterial route have not been established.

5.6 Embryo-Fetal Toxicity

Carmustine was embryotoxic in rats and rabbits and teratogenic in rats when given in doses lower than the maximum cumulative human dose based on body surface area. There are no adequate and well- controlled studies in pregnant women. Advise pregnant women of the potential risk to the fetus [*see Use in Specific Populations (8.1, 8.3)*].

Advise females of reproductive potential to use highly effective contraception during and after treatment with Carmustine for Injection for at least 6 months after therapy. Advise males of reproductive potential to use effective contraception during and after treatment with Carmustine for Injection for at least 3 months after therapy [see Use in Specific Populations (8.1, 8.3)].

6 ADVERSE REACTIONS

The following serious adverse reactions are described elsewhere in the labeling:

- Myelosuppression [see Warnings and Precautions (5.1)]
- Pulmonary toxicity [see Warnings and Precautions (5.2)]
- Administration Reactions [see Warnings and Precautions (5.3)]
- Carcinogenicity [see Warnings and Precautions (5.4)]
- Ocular Toxicity [see Warnings and Precautions (5.5)]

The following adverse reactions associated with the use of Carmustine for Injection were identified in clinical studies or post-marketing reports. Because some of these reactions were 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.

Cardiac Disorders

Tachycardia and chest pain.

Eye Disorders

Conjunctival edema, conjunctival hemorrhage, blurred vision and loss of depth perception

Gastrointestinal Toxicity

Nausea, vomiting, anorexia, and diarrhea

Hepatotoxicity

Increased transaminase, increased alkaline phosphatase, increased bilirubin levels

Infections and Infestations

Opportunistic infection (including with fatal outcome).

Neoplasms Benign, Malignant and Unspecified (including cysts and polyps)

Acute leukemia, bone marrow dysplasias.

Nephrotoxicity

Progressive azotemia, decrease in kidney size, renal failure

Nervous System Disorders

Headaches, encephalopathy, and seizures

Pulmonary Toxicity

Pneumonitis, interstitial lung disease

Reproductive System and Breast Disorders

Skin and Subcutaneous Tissue Disorders

Burning sensation, hyperpigmentation, swelling, pain, erythema, skin necrosis, alopecia, allergic reaction

<u>Vascular Disorders</u>

Veno-occlusive disease.

7 DRUG INTERACTIONS

7.1 Effects of Other Drugs on Carmustine for Injection

Cimetidine: Greater myelosuppression (e.g., leukopenia and neutropenia) has been reported when oral cimetidine has been coadministered with carmustine. Consider alternative drugs to cimetidine.

Phenobarbital: Phenobarbital induces the metabolism of carmustine and may compromise antitumor activity of Carmustine for Injection. Consider alternative drugs to phenobarbital.

7.2 Effects of Carmustine for Injection on Other Drugs

Phenytoin: Carmustine for Injection when coadministered with phenytoin may reduce phenytoin serum concentrations. Consider alternative drugs to phenytoin.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Carmustine for Injection can cause fetal harm when administered to a pregnant woman based on the mechanism of action [*see Clinical Pharmacology (12.1)*] and findings in animals [*see Data*]. Limited available data with Carmustine for Injection use in pregnant women are insufficient to inform a drug-associated risk of major birth defects and miscarriage. Carmustine was embryotoxic in rats and rabbits and teratogenic in rats (thoracoabdominal closure, neural tube, and eye defects and malformations of the skeletal system of the fetus) when given in doses lower than the maximum cumulative human dose based on body surface area. Consider the benefits and risks of Carmustine for Injection for the mother and possible risks to the fetus when prescribing Carmustine for Injection to a pregnant woman.

Adverse outcomes in pregnancy occur regardless of the health of the mother or the use of medications. The estimated background risk of major birth defects and miscarriage for the indicated population is unknown. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2 to 4% and 15 to 20%, respectively.

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<u>Data</u>
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Animal Data

Intraperitoneal (IP) administration of carmustine to pregnant rats 14 days prior to mating and during the period of organogenesis at cumulative doses \geq 26 mg/kg (158 mg/m²), approximately 0.1 times the maximum cumulative human dose of 1400 mg/m², resulted in pre-implantation loss, increased resorptions (including completely resorbed litters), and reduced the number of live births in the presence of maternal toxicity.

Carmustine administered IP to pregnant rats during the period of organogenesis at cumulative doses $\geq 4 \text{ mg/kg} (24 \text{ mg/m}^2)$, approximately 0.02 times the maximum cumulative human dose based on a mg/m² basis, resulted in reduced fetal weight and various malformations, which included thoracoabdominal closure defects, neural tube defects, and eye defects, including microphthalmia/anophthalmia, and skeletal anomalies in the skull, sternebra, vertebrae and ribs, and reduced skeletal ossification) in the presence of maternal toxicity. Embryo-fetal death was observed at cumulative doses \geq 8 mg/kg (48 mg/m²), approximately 0.03 times the maximum cumulative human dose on a mg/ m² basis. Intravenous (IV) administration of carmustine to rats at a cumulative dose of 50 mg/kg (300 mg/ m²), approximately 0.2 times the maximum cumulative human dose on a mg/m² basis, during the last quarter of pregnancy resulted in the death of offspring within 4 months. Carmustine administered IV to rabbits during the period of organogenesis resulted in spontaneous abortions in mothers and growth defects in the fetus, mainly at cumulative doses \geq 13 mg/kg (156 mg/ m²), approximately 0.1 times the maximum cumulative human dose on a mg/ m² basis.

8.2 Lactation

<u>Risk Summary</u>

There is no information regarding the presence of carmustine in human milk, the effects on the breastfed infant, or the effects on milk production. Because many drugs are excreted in human milk and because of the potential for serious adverse events (e.g., carcinogenicity and myelosuppression) in nursing infants, nursing should be discontinued while taking Carmustine for Injection.

8.3 Females and Males of Reproductive Potential

Contraception

Advise female patients to avoid pregnancy during treatment with Carmustine for Injection because of the risk of fetal harm [see Use in Specific Populations (8.1)].

Advise female patients of reproductive potential to use highly effective contraception during and for up to six months after completion of treatment.

Advise males with female sexual partners of reproductive potential to use effective contraception during Carmustine for Injection treatment and for at least three months after the final dose of Carmustine for Injection [*see Nonclinical Toxicology (13.1)*].

Infertility

Based on nonclinical findings, male fertility may be compromised by treatment with Carmustine for Injection *[see Nonclinical Toxicology (13.1)].*

8.4 Pediatric Use

Safety and effectiveness in children have not been established. Delayed onset pulmonary fibrosis occurring up to 17 years after treatment has been reported in a long-term study

of patients who received Carmustine for Injection in childhood and early adolescence (1 to 16 years). Eight out of the 17 patients (47%) who survived childhood brain tumors, including all the 5 patients initially treated at less than 5 years of age, died of pulmonary fibrosis. *[see Adverse Reactions (6.1)].*

8.5 Geriatric Use

Clinical studies of Carmustine for Injection did not include sufficient numbers of subjects aged 65 and over to determine whether they respond differently from younger subjects. Other reported clinical experience has not identified differences in responses between the elderly and younger patients. In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dose range, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or other drug therapy.

Carmustine for Injection and its metabolites are known to be substantially excreted by the kidney, and 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 renal function should be monitored.

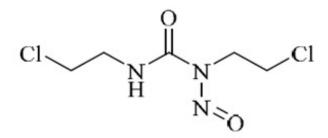
10 OVERDOSAGE

The main result of overdose is myeloablation. No proven antidotes have been established for Carmustine for Injection overdosage.

11 DESCRIPTION

The active ingredient in Carmustine for injection, USP is a nitrosourea with the chemical name 1,3-bis(2-chloroethyl)-1-nitrosourea and a molecular weight of 214.05. The drug product is supplied as sterile lyophilized pale yellow dry flakes or dry congealed mass, and it is highly soluble in alcohol and lipids, and poorly soluble in water. Carmustine for Injection, USP is administered by intravenous infusion after reconstitution, as recommended.

The structural formula of carmustine is:



Carmustine for injection, USP is available in 100-mg single dose vials of lyophilized material. Sterile diluent for constitution of Carmustine for injection, USP is co-packaged with the active drug product for use in constitution of the lyophile. The diluent is supplied

in a vial containing 3 mL of Dehydrated Alcohol Injection, USP.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

The mechanism of action of carmustine is not fully understood. While carmustine alkylates DNA and RNA, it is not cross-resistant with other alkylators. As with other nitrosoureas, it may also inhibit several key enzymatic processes by carbamoylation of amino acids in proteins. The metabolites may contribute to antitumor activity and toxicities of carmustine.

12.2 Pharmacodynamics

The exposure-response relationship for efficacy or safety is unknown.

12.3 Pharmacokinetics

Distribution

Carmustine crosses the blood-brain barrier. Levels of radioactivity in the CSF are greater than or equal to 50% of those measured concurrently in plasma.

Elimination

Following a short intravenous infusion, the reported elimination half-life ranges from 15 minutes to 75 minutes.

<u>Metabolism</u>

Carmustine may be inactivated through denitrosation reactions catalyzed by both cytosolic and microsomal enzymes, including NADPH and glutathione-S-transferase.

Excretion

Approximately 60% to 70% of a total dose is excreted in the urine within 96 hours. Approximately 10% is eliminated as respiratory CO $_2$.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carmustine is carcinogenic in rats and mice, producing a marked increase in tumor incidence in doses approximating those employed clinically. Nitrosourea therapy does have carcinogenic potential in humans [see Adverse Reactions (6.1)].

Carmustine was mutagenic and clastogenic in multiple in vitro and in vivo genetic toxicology studies.

Male rats treated with carmustine at cumulative doses \geq 36 mg/kg (216 mg/ m²), approximately 0.15 times the maximum cumulative human dose on a mg/ m² basis, showed decreases in reproductive potential when mated with untreated female rats (e.g., decreased implantations, increased resorption rate, and a decrease in viable fetuses).

15 REFERENCES

1. "OSHA Hazardous Drugs." OSHA. http://www.osha.gov/SLTC/hazardousdrugs/index.html

16 HOW SUPPLIED/STORAGE AND HANDLING

16.1 How Supplied

Carmustine for injection, USP. Each package includes a vial containing 100 mg carmustine, USP and a vial containing 3 mL sterile diluent.

It is supplied as below:

100 mg/vial (Carmustine, USP): NDC 16729-509-10

3mL Sterile Diluent (Dehydrated Alcohol Injection, USP): NDC 16729-510-85

Carton of 1 Vial Carmustine, USP and 1 Vial Sterile Diluent: NDC 16729-511-63

16.2 Storage and Handling

Store product and diluent in a refrigerator 2°C to 8°C (36°F to 46°F).

<u>Stability</u>

Store the unopened vial of the dry drug in a refrigerator (2° to 8°C, 36° to 46°F). Store the diluent vials in a refrigerator (2° to 8°C, 36° to 46°F). The recommended storage of unopened Carmustine for injection, USP vials provides a stable product for up to 2 years.

Compatibility/ Incompatibility with Containers

The intravenous solution is unstable in polyvinyl chloride container. **DO NOT USE PVC Containers**.

Administer Carmustine for injection, USP solution from the **glass bottles or polypropylene container only. Ensure the polypropylene containers used are PVC free and DEHP free.**

Important Note

Carmustine for injection, USP has a low melting point (30.5°-32.0°C or 86.9°-89.6°F). Exposure of the drug to this temperature or above will cause the drug to liquefy and appear as an oil film on the vials. This is a sign of decomposition and vials should be discarded. If there is a question of adequate refrigeration upon receipt of this product, immediately inspect the vial in each individual carton. Hold the vial to a bright light for inspection. The Carmustine for injection, USP will appear as a very small amount of dry flakes or dry congealed mass. If this is evident, the Carmustine for injection, USP is suitable for use and should be refrigerated immediately.

17 PATIENT COUNSELING INFORMATION

<u>Myelosuppression</u> [see Warnings and Precautions (5.1)].

A serious and frequent toxicity of Carmustine for Injection is delayed myelosuppression and usually occurs 4 to 6 weeks after drug administration. Hence, patients should be advised to get blood counts monitored weekly for at least 6 weeks. The bone marrow toxicity of Carmustine for Injection is cumulative.

<u>Pulmonary Toxicity</u> [see Warnings and Precautions (5.2)].

Advise patients to contact a health care professional immediately for any of the following: shortness of breath, particularly during exercise, dry, hacking cough, fast, shallow breathing, gradual unintended weight loss, tiredness, aching joints and muscles, clubbing (widening and rounding) of the tips of the fingers or toes.

Seizures [see Adverse Reactions (6)]

Inform the patient that they may suffer from fits and advise them to get medical attention immediately in such cases.

<u>Pregnancy</u> [see Warnings and Precautions (5.6) and Use in Specific Populations (8.1 and 8.3)]

Advise pregnant women and females of reproductive potential that Carmustine for Injection exposure during pregnancy can result in fetal harm. Advise female patients to contact their healthcare provider with a known or suspected pregnancy. Advise women of reproductive potential to avoid becoming pregnant. Advise females of reproductive potential to use effective contraception during treatment.

Lactation [see Use in Specific Populations (8.2)]

Advise the female patient to discontinue nursing while taking Carmustine for Injection.

Manufactured for:

Accord Healthcare Inc.,

1009 Slater Road,

Suite 210-B,

Durham, NC 27703,

USA

Manufactured by:

Intas Pharmaceuticals Limited,

Ahmedabad-382 210, INDIA.

10 3612 0 696286

Rev: 01/20

INSTRUCTIONS FOR USE OF COMBI KIT GUARD FOR

Carmustine (kär-ma- sten) for injection, USP

About Combi Kit Guard

- This Combi Kit Guard is specially designed for your safety.

- Please do not remove the vials from the Combi Kit Guard.

- Keep the Combi Kit Guard in a carton till the time of use.

How to use this Combi Kit Guard

The instructions below explain how to use this Combi Kit Guard

The Combi Kit Guard has two compartments. One holds the 100 mg carmustine vial and the other holds the 3 mL sterile diluent (Dehydrated Alcohol Injection, USP) vial.

List of items required: gloves, alcohol swabs, sterile syringe.

Wear gloves at all times when handling COMBI KIT Guard.

Discard the COMBI KIT Guard after use.

Step: 1



Take out COMBI KIT Guard from carton & place on the table

Step: 3



Aseptically remove 3 mL sterile diluent from the vial with the help of sterile syringe.

Step: 5



Hold the COMBI KIT guard by hand firmly and contly chalze to discolve the content



Remove the Flip seals from both the vials by holding the vial in Combi Guard.

Step: 4



Inject the sterile diluent into vial containing 100 mg carmustine.



Aseptically add 27 mL Sterile Water for Injection USP.

Step: 7



Hold the COMBI KIT guard by hand firmly and shake gently.

Step: 8



Aseptically remove the diluted product and infuse after further dilution as recommended with Sodium Chloride for Injection, USP or 5% Dextrose Injection, USP.

Please refer the product information leaflet before administration. For more information call Accord Healthcare Inc. at 1-866-941-7875

Manufactured by: **Intas Pharmaceuticals Limited,** Plot No. : 457, 458, Village – Matoda, Bavla Road, Ta.- Sanand, Dist.- Ahmedabad – 382 210. India.

Manufactured for: Accord Healthcare Inc., 1009, Slater Road, Suite 210-B, Durham, NC 27703, USA Rev. 01/2020

10 3612 0 696286

PACKAGE LABEL.PRINCIPAL DISPLAY PANEL - diluent label

NDC 16729- 510-85

Rx only

Dehydrated Alcohol Injection, USP

3 mL

Sterile Diluent for Carmustine for Injection



PACKAGE LABEL.PRINCIPAL DISPLAY PANEL - vial label

NDC 16729- 509-10

Rx only

Carmustine for Injection, USP

100 mg per vial

For intravenous infusion after reconstitution

REFRIGERATE IMMEDIATELY

Single Dose Vial - Discard Unused Portion



PACKAGE LABEL.PRINCIPAL DISPLAY PANEL - carton

NDC 16729- 511-63

Rx only

Carmustine for Injection, USP

100 mg per vial

Each carton contains: 1 vial Carmustine for Injection, USP 100 mg, 1 vial Sterile Diluent for Carmustine for Injection, USP, 3 mL

For intravenous infusion after reconstitution

Single Dose Vial - Discard Unused Portion



CI	RMUSTIN	F				
car	mustine kit					
Product Information						
Pr	roduct Type HUMAN PRESCRIPTION DRUG		Item Code (Source)		NDC:16729-511	
Pa	ackaging					
#	ltem Code	Package Description		Marketing Start Date	Marketing End Date	
	NDC:16729-511- 63	1 in 1 CARTON; Type 0: Not a Combination Product		12/28/2024		
Quantity of Parts						
Pa	nrt #	Package Quantity		Total Product Qu	antity	
Ра	rt 1 1 VIAL		3 mL			

га		OLL-DOJL	SUITE			
P	art 1 of 2					
DEHYDRATED ALCOHOL						
alcohol injection						
P	roduct Inform	mation				
Ite	em Code (Sour	ce)	NDC:16729-510			
Ro	oute of Adminis	stration	INTRAVENOUS			
In	active Ingree	dients				
		Ing	redient Name			Strength
AL	COHOL (UNII: 3KS	9958V90M)				
Pa	ackaging					
#	ltem Code	Pac	kage Description	Marketing Start Date		Marketing End Date
	NDC:16729-510- 85	3 mL in 1 VIAL Product	; Type 0: Not a Combination			
	05	FIGULE				
Μ	arketing I	nformat	ion			
Marketing Applica Category		Applica	tion Number or Monograph Citation	Marketing Start Date		Marketing End Date
AN	ANDA ANDA21411			12/28/2024		
P	art 2 of 2					
			r, lyophilized, for solution			
P	roduct Inform	mation				
Item Code (Source)		ce)	NDC:16729-509			
Route of Administration			INTRAVENOUS			
Active Ingredient/Active Moiety						
		Ingredi	ient Name	Basis of	f Strengt	h Strength

2	ackaging			
¥	ltem Code	Package Description	Marketing Start Date	: Marketing En Date
	NDC:16729- 509-10	30 mL in 1 VIAL, SINGLE-DOSE; Type 0: Not a Combination Product		
M	arketing	Information		
	Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
١N	DA	ANDA214117	12/28/2024	
Μ	arketing	Information		
	Marketing Category	Application Number or Monograph Citation	Marketing Start Date	Marketing End Date
٩N	DA	ANDA214117	12/28/2024	
			12/20/2024	

Labeler - Accord Healthcare Inc. (604222237)

Registrant - Accord Healthcare Inc. (604222237)

Establishment					
Name	Address	ID/FEI	Business Operations		
Intas Pharmaceuticals Limited		725927649	manufacture(16729-509, 16729-510, 16729-511) , analysis(16729-509, 16729-510, 16729-511)		

Revised: 12/2022

Accord Healthcare Inc.