

## HIGHLIGHTS OF PRESCRIBING INFORMATION

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

**CEFAZOLIN injection, for intravenous use**  
**Initial U.S. Approval: 1973**

### INDICATIONS AND USAGE

Cefazolin injection is a cephalosporin antibacterial indicated for preoperative prophylaxis. (1.1)

**Limitations of Use:** Use an alternative cefazolin product when lengthy surgical procedures require supplemental doses and when postoperative dosing is required. (1.2)

To reduce the development of drug-resistant bacteria and maintain the effectiveness of Cefazolin injection and other antibacterial drugs, Cefazolin injection should be used only to prevent infections that are proven or strongly suspected to be caused by bacteria. (1.3)

### DOSAGE AND ADMINISTRATION

- Use Cefazolin injection in patients who require the entire 2 gram dose and not any fraction of it. (2.1)
- Use Cefazolin injection only in patients with creatinine clearance greater than or equal to 35 mL/min. (2.2)
- For intravenous use only administered over approximately 30 minutes. (2.3)

### DOSAGE FORMS AND STRENGTHS

Injection: 2 g of cefazolin per 100 mL in a single-use GALAXY CONTAINER. (3)

### CONTRAINDICATIONS

Hypersensitivity to cefazolin or other cephalosporin antibacterial drugs, penicillins, or other beta-lactam drugs. (4.1)

### WARNINGS AND PRECAUTIONS

- **Hypersensitivity reactions:** Cross-hypersensitivity may occur in up to 10% of patients with a history of penicillin allergy. If an allergic reaction occurs, discontinue the drug. (5.1)
- ***Clostridium difficile*-associated diarrhea (CDAD):** May range from mild diarrhea to fatal colitis. Evaluate if diarrhea occurs. (5.2)

### ADVERSE REACTIONS

Most common adverse reactions with cefazolin are nausea, vomiting, diarrhea, and allergic reactions (anaphylaxis, urticaria, skin rash). (6)

**To report SUSPECTED ADVERSE REACTIONS, contact Celerity Pharmaceuticals, LLC at 1-855-669-0600 or FDA at 1-800-FDA-1088 or [www.fda.gov/medwatch](http://www.fda.gov/medwatch).**

### DRUG INTERACTIONS

Probenecid: The renal excretion of cefazolin is inhibited by probenecid. Co-administration of probenecid with cefazolin is not recommended. (7)

### USE IN SPECIFIC POPULATIONS

Pediatric use: The safety and effectiveness of Cefazolin injection in pediatric patients have not been established. (8.4)

**See 17 for PATIENT COUNSELING INFORMATION**

Revised: 8/2015

## FULL PRESCRIBING INFORMATION: CONTENTS\*

### 1 INDICATIONS AND USAGE

- 1.1 Preoperative Prophylaxis
- 1.2 Limitations of Use
- 1.3 Usage

### 2 DOSAGE AND ADMINISTRATION

- 2.1 Preoperative Prophylactic Use in Adults
- 2.2 Patients with Renal Impairment
- 2.3 Important Administration Instructions
- 2.4 Directions for Use of Cefazolin Injection

### 3 DOSAGE FORMS AND STRENGTHS

### 4 CONTRAINDICATIONS

- 4.1 Hypersensitivity to Cefazolin or the Cephalosporin Antibacterial Drugs, Penicillins, or Other Beta-lactams

### 5 WARNINGS AND PRECAUTIONS

- 5.1 Hypersensitivity Reactions to Cefazolin, Cephalosporins, Penicillins, or Other Beta-lactams
- 5.2 *Clostridium difficile*-associated Diarrhea
- 5.3 Hypersensitivity to Dextrose-containing Products
- 5.4 Risk of Development of Drug-resistant Bacteria
- 5.5 Drug and Laboratory Test Interactions
- 5.6 Potential Risk in Patients with Overt or Known Subclinical Diabetes Mellitus or Carbohydrate Intolerance

### 6 ADVERSE REACTIONS

- 6.1 Clinical Trials Experience
- 6.2 Cephalosporin Adverse Reactions

### 7 DRUG INTERACTIONS

### 8 USE IN SPECIFIC POPULATIONS

- 8.1 Pregnancy
- 8.2 Labor and Delivery
- 8.3 Nursing Mothers
- 8.4 Pediatric Use
- 8.5 Geriatric Use
- 8.6 Patients with Renal Impairment

### 11 DESCRIPTION

### 12 CLINICAL PHARMACOLOGY

- 12.1 Mechanism of Action
- 12.2 Pharmacodynamics
- 12.3 Pharmacokinetics
- 12.4 Microbiology

### 13 NONCLINICAL TOXICOLOGY

- 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

### 15 REFERENCES

### 16 HOW SUPPLIED/STORAGE AND HANDLING

### 17 PATIENT COUNSELING INFORMATION

\* Sections or subsections omitted from the full prescribing information are not listed.

## **FULL PRESCRIBING INFORMATION**

### **1 INDICATIONS AND USAGE**

#### **1.1 Preoperative Prophylaxis**

Cefazolin injection is indicated for preoperative prophylaxis. The prophylactic administration of cefazolin preoperatively may reduce the incidence of certain postoperative infections in patients undergoing surgical procedures which are classified as contaminated or potentially contaminated (e.g., vaginal hysterectomy, and cholecystectomy in high-risk patients such as those older than 70 years, with acute cholecystitis, obstructive jaundice, or common duct bile stones).

The preoperative use of cefazolin may also be effective in surgical patients in whom infection at the operative site would present a serious risk.

If there are signs of infection, specimens for cultures should be obtained for the identification of the causative organism so that appropriate therapy may be instituted.

#### **1.2 Limitations of Use**

Use an alternative cefazolin product when lengthy surgical procedures require supplemental doses and when postoperative dosing is required.

#### **1.3 Usage**

To reduce the development of drug-resistant bacteria and maintain the effectiveness of Cefazolin injection and other antibacterial drugs, Cefazolin injection should be used only to prevent infections that are proven or strongly suspected to be caused by susceptible bacteria. When culture and susceptibility information are available, they should be considered in selecting or modifying antibacterial therapy. In the absence of such data, local epidemiology and susceptibility patterns may contribute to the empiric selection of therapy.

### **2 DOSAGE AND ADMINISTRATION**

#### **2.1 Preoperative Prophylactic Use in Adults**

- Only use Cefazolin injection in patients who require the entire 2 gram dose and not any fraction of it.
- Administer the entire 2 gram dose intravenously 1/2 hour to 1 hour prior to the start of surgery.
- It is important that the preoperative dose be given just prior (1/2 hour to 1 hour) to the start of surgery so that adequate antibacterial concentrations are present in the serum and tissues at the time of initial surgical incision.

#### **2.2 Patients with Renal Impairment**

Use Cefazolin injection only in patients whose creatinine clearance is greater than or equal to 35 mL/min and require the entire 2 gram dose and not any fraction of it.

#### **2.3 Important Administration Instructions**

- This premixed solution is for intravenous use only.
- Administer Cefazolin injection intravenously over approximately 30 minutes.
- Do not use plastic containers in series connections. Such use would result in air embolism due to residual air being drawn from the primary container before administration of the fluid from the secondary container is complete. If administration is controlled by a pumping device, care must be taken to discontinue pumping action before the container runs dry or air embolism may result.
- Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration. Use only if solution is clear and container and seals are intact.
- Do not introduce additives into the GALAXY Container.

#### **2.4 Directions for Use of Cefazolin Injection**

##### Thawing of Plastic Container

- Thaw frozen container at room temperature (25°C/ 77°F) or under refrigeration (5°C/41°F). Product should not be thawed by immersion in water baths or by microwave irradiation. Do not force thaw.
- No further dilution is necessary.
- Check for minute leaks by squeezing container firmly. If leaks are detected, discard solution as sterility may be impaired.

- Do not add supplementary medication.
- The container should be visually inspected. Components of the solution may precipitate in the frozen state and will dissolve upon reaching room temperature with little or no agitation. Potency is not affected. Agitate after solution has reached room temperature. If after visual inspection the solution remains cloudy or if an insoluble precipitate is noted or if any seals or outlet ports are not intact, the container should be discarded.
- The thawed solution is stable for 30 days under refrigeration (5°C/41°F) and 48 hours at 25°C/77°F. Do not refreeze thawed antibacterial drugs.

#### Preparation for Administration

- Suspend container from support.
- Remove protector from outlet port at bottom of container.
- Attach Intravenous administration set to outlet port. Refer to the manufacturer's instructions accompanying the administration set for complete directions.

### **3 DOSAGE FORMS AND STRENGTHS**

Injection: 2 g cefazolin per 100 mL in a single-use GALAXY CONTAINER supplied as a frozen, premixed, iso-osmotic, sterile, nonpyrogenic solution.

### **4 CONTRAINDICATIONS**

#### **4.1 Hypersensitivity to Cefazolin or the Cephalosporin Class of Antibacterial Drugs, Penicillins, or Other Beta-lactams**

Cefazolin injection is contraindicated in patients who have a history of immediate hypersensitivity reactions (e.g., anaphylaxis, serious skin reactions) to cefazolin or the cephalosporin antibacterial drugs, penicillins, or other beta-lactams [see *Warnings and Precautions* (5.1)].

### **5 WARNINGS AND PRECAUTIONS**

#### **5.1 Hypersensitivity Reactions to Cefazolin, Cephalosporins, Penicillins, or Other Beta-lactams**

Serious and occasionally fatal hypersensitivity (anaphylactic) reactions have been reported in patients receiving beta-lactam antibacterial drugs. Before therapy with Cefazolin injection is instituted, careful inquiry should be made to determine whether the patient has had previous immediate hypersensitivity reactions to cefazolin, cephalosporins, penicillins, or carbapenems. Maintain clinical supervision if this product is to be given to penicillin-sensitive patients because cross-hypersensitivity among beta-lactam antibacterial drugs has been clearly documented and may occur in up to 10% of patients with a history of penicillin allergy. If an allergic reaction to Cefazolin injection occurs, discontinue the drug.

#### **5.2 *Clostridium difficile*-associated Diarrhea**

*Clostridium difficile*-associated diarrhea (CDAD) has been reported with use of nearly all antibacterial agents, including cefazolin, and may range in severity from mild diarrhea to fatal colitis. Treatment with antibacterial agents alters the normal flora of the colon leading to overgrowth of *C. difficile*.

*C. difficile* produces toxins A and B, which contribute to the development of CDAD. Hypertoxin-producing isolates of *C. difficile* cause increased morbidity and mortality, as these infections can be refractory to antimicrobial therapy and may require colectomy. CDAD must be considered in all patients who present with diarrhea following antibacterial drug use. Careful medical history is necessary since CDAD has been reported to occur over two months after the administration of antibacterial agents.

If CDAD is suspected or confirmed, ongoing antibacterial drug use not directed against *C. difficile* may need to be discontinued. Appropriate fluid and electrolyte management, protein supplementation, antibacterial drug treatment of *C. difficile*, and surgical evaluation should be instituted as clinically indicated.

#### **5.3 Hypersensitivity to Dextrose-containing Products**

Hypersensitivity reactions, including anaphylaxis, have been reported with administration of dextrose-containing products. These reactions have been reported in patients receiving high concentrations of dextrose (i.e. 50% dextrose).<sup>1</sup> The reactions have also been reported when corn-derived dextrose solutions were administered to patients with or without a history of hypersensitivity to corn products.<sup>2</sup>

#### **5.4 Risk of Development of Drug-resistant Bacteria**

Prescribing Cefazolin injection in the absence of proven or strongly suspected bacterial infection or a prophylactic indication is unlikely to provide benefit to the patient and increases the risk of the development of drug-resistant bacteria.

As with other antimicrobials, prolonged use of Cefazolin injection may result in overgrowth of nonsusceptible microorganisms. Repeated evaluation of the patient's condition is essential. Should superinfection occur during therapy, appropriate measures should be taken.

## 5.5 Drug and Laboratory Test Interactions

### Urinary Glucose

The administration of cefazolin may result in a false-positive reaction with glucose in the urine when using CLINITEST® tablets. It is recommended that glucose tests based on enzymatic glucose oxidase reactions (e.g., CLINISTIX®) be used.

### Coombs' Test

Positive direct Coombs' tests have been reported during treatment with cefazolin. In hematologic studies or in transfusion cross-matching procedures when antiglobulin tests are performed on the minor side or in Coombs' testing of newborns whose mothers have received cephalosporin antibacterial drugs before parturition, it should be recognized that a positive Coombs' test may be due to the drug.

## 5.6 Potential Risk in Patients with Overt or Known Subclinical Diabetes Mellitus or Carbohydrate Intolerance

As with other dextrose-containing solutions, maintain clinical supervision when prescribing Cefazolin injection to patients with overt or known subclinical diabetes mellitus or carbohydrate intolerance for any reason.

## 6 ADVERSE REACTIONS

The following serious adverse reactions to cefazolin are described below and elsewhere in the labeling:

- Hypersensitivity reactions [see *Warnings and Precautions (5.1)*]
- *Clostridium difficile*-associated diarrhea [see *Warnings and Precautions (5.2)*]

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

The following adverse reactions were reported from clinical trials:

*Gastrointestinal:* Diarrhea, oral candidiasis, mouth ulcers, vomiting, nausea, stomach cramps, epigastric pain, heartburn, flatus, anorexia and pseudomembranous colitis. Onset of pseudomembranous colitis symptoms may occur during or after antibacterial treatment [see *Warnings and Precautions (5.2)*].

*Allergic:* Anaphylaxis, eosinophilia, urticaria, itching, drug fever, skin rash, Stevens-Johnson syndrome.

*Hematologic:* Neutropenia, leukopenia, thrombocytopenia, thrombocythemia.

*Hepatic:* Transient rise in alanine aminotransferase (ALT), aspartate aminotransferase (AST), hepatitis and alkaline phosphatase levels has been observed.

*Renal:* Increased BUN and creatinine levels, renal failure

*Local Reactions:* Phlebitis injection

*Other Reactions:* Pruritus (including genital, vulvar and anal pruritus, genital moniliasis, and vaginitis). Dizziness, fainting, lightheadedness, confusion, weakness, tiredness, hypotension, somnolence and headache.

### 6.2 Cephalosporin Adverse Reactions

In addition to the adverse reactions listed above that have been observed in patients treated with cefazolin, the following adverse reactions and altered laboratory tests have been reported for cephalosporin antibacterial drugs: Stevens-Johnson syndrome, erythema multiforme, toxic epidermal necrolysis, renal impairment, toxic nephropathy, aplastic anemia, hemolytic anemia, hemorrhage, hepatic impairment including cholestasis, and pancytopenia.

## 7 DRUG INTERACTIONS

The renal excretion of cefazolin is inhibited by probenecid. Co-administration of probenecid with cefazolin is not recommended.

## 8 USE IN SPECIFIC POPULATIONS

### 8.1 Pregnancy

#### Pregnancy Category B

Reproduction studies have been performed in rats, mice and rabbits at doses of 2000, 4000 and 240 mg/kg/day or 1-3 times the maximum recommended human dose (based on body surface area). There was no evidence of impaired fertility or harm to the fetus due to cefazolin.

## 8.2 Labor and Delivery

When cefazolin has been administered prior to caesarean section, drug concentrations in cord blood have been approximately one quarter to one third of maternal drug levels. The drug appears to have no adverse effect on the fetus.

## 8.3 Nursing Mothers

Cefazolin is present in very low concentrations in the milk of nursing mothers. Caution should be exercised when Cefazolin injection is administered to a nursing woman.

## 8.4 Pediatric Use

The safety and effectiveness of Cefazolin injection in pediatric patients have not been established.

## 8.5 Geriatric Use

Of the 920 subjects who received cefazolin in clinical studies, 313 (34%) were 65 years and over, while 138 (15%) were 75 years and over. No overall differences in safety or effectiveness were observed between these subjects and younger subjects. Other reported clinical experience has not identified differences in responses between the elderly and younger patients, but greater sensitivity of some older individuals cannot be ruled out.

This drug is 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 it may be useful to monitor renal function [see *Dosage and Administration (2.2)*].

## 8.6 Patients with Renal Impairment

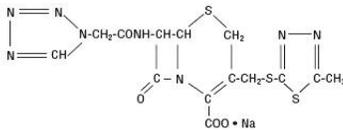
Cefazolin injection should be used only in patients whose creatinine clearance is greater than or equal to 35 mL/min and require the entire 2 gram dose and not any fraction of it. [see *Dosage and Administration (2.2)*].

## 11 DESCRIPTION

Cefazolin Injection is a frozen, premixed, iso-osmotic, sterile, nonpyrogenic, single use 100 mL solution containing cefazolin sodium equivalent to 2 g of Cefazolin, USP in the GALAXY container (PL 2040 Plastic). Dextrose, USP has been added to adjust osmolality (4 g as dextrose hydrous). The approximate osmolality for Cefazolin injection is 290 mOsmol/kg.

Cefazolin injection is a semi-synthetic cephalosporin antibacterial for parenteral administration and has the following IUPAC nomenclature: Sodium (6*R*,7*R*)-3-[[[(5-methyl-1,3,4-thiadiazol-2-yl)thio]methyl]-8-oxo-7-[2-(1*H*-tetrazol-1-yl)acetamido]-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylate. Its molecular formula is C<sub>14</sub>H<sub>14</sub>N<sub>8</sub>O<sub>4</sub>S<sub>3</sub>·Na and its molecular weight is 454.51 (free base).

Cefazolin Sodium, USP has the following structural formula:



The sodium content is 48 mg/g of cefazolin sodium.

The pH of Cefazolin injection has been adjusted with sodium bicarbonate. Water for injection, USP is added as drug vehicle. Contains no preservative. The solution is intended for intravenous use after thawing to room temperature.

This GALAXY container (PL 2040 Plastic) is fabricated from a specially designed multilayer plastic (PL 2040). Solutions are in contact with the polyethylene layer of this container and can leach out certain chemical components of the plastic in very small amounts within the expiration period. However, the suitability of the plastic has been confirmed in tests in animals according to the USP biological tests for plastic containers, as well as by tissue culture toxicity studies.

## 12 CLINICAL PHARMACOLOGY

### 12.1 Mechanism of Action

Cefazolin is a cephalosporin antibacterial drug [see *Clinical Pharmacology (12.4)*].

### 12.2 Pharmacodynamics

The pharmacokinetic/pharmacodynamic relationship for cefazolin has not been evaluated in patients.

### 12.3 Pharmacokinetics

Studies have shown that following intravenous administration of cefazolin to normal volunteers, mean serum concentrations peaked at approximately 185 mcg/mL and were approximately 4 mcg/mL at 8 hours for a 1 g dose.

The serum half-life for cefazolin is approximately 1.8 hours following intravenous administration.

In a study, using normal volunteers, of constant intravenous infusion with dosages of 3.5 mg/kg for 1 hour (approximately 250 mg) and 1.5 mg/kg the next 2 hours (approximately 100 mg), cefazolin produced a steady serum concentration at the third hour of approximately 28 mcg/mL.

Plasma pharmacokinetic parameters of cefazolin in normal volunteers (N=12) following a single 15-minute intravenous infusion of 2 g of Cefazolin for injection and Dextrose injection are summarized in Table 1.

	<b>N</b>	<b>C<sub>max</sub></b> <b>(mcg/mL)</b>	<b>T<sub>max</sub>*</b> <b>(h)</b>	<b>AUC<sub>0-inf</sub></b> <b>(mcg*h/mL)</b>	<b>t<sub>1/2</sub></b> <b>(h)</b>	<b>CL</b> <b>(L/h)</b>	<b>V<sub>z</sub></b> <b>(L)</b>
Single 2 g Dose as a 15-Minute IV Infusion	12	280.9 (45.9)	0.25 (0.25-0.33)	509.9 (89.3)	2.01 (0.28)	4.03 (0.68)	11.50 (1.53)

\*T<sub>max</sub> reported as median (range)

N= number of subjects observed; C<sub>max</sub> = maximum plasma concentration; T<sub>max</sub> = time to maximum plasma concentration; AUC<sub>0-inf</sub> = area under the plasma concentration-time curve extrapolated to infinity; t<sub>1/2</sub> = apparent plasma terminal elimination half-life; CL = total clearance; V<sub>z</sub> = volume of distribution

Studies in patients hospitalized with infections indicate that cefazolin produces mean peak serum concentrations approximately equivalent to those seen in normal volunteers.

#### Distribution

Bile concentrations in patients without obstructive biliary disease can reach or exceed serum concentrations by up to five times; however, in patients with obstructive biliary disease, bile concentrations of cefazolin are considerably lower than serum concentrations (less than 1.0 mcg/mL).

In synovial fluid, the cefazolin concentration becomes comparable to that reached in serum at about 4 hours after drug administration.

Studies of cord blood show prompt transfer of cefazolin across the placenta. Cefazolin is present in very low concentrations in the milk of nursing mothers.

#### Excretion

Cefazolin is excreted unchanged in the urine. In the first 6 hours approximately 60% of the drug is excreted in the urine and this increases to 70% to 80% within 24 hours.

### 12.4 Microbiology

#### Mechanism of Action

Cefazolin is a bactericidal agent that acts by inhibition of bacterial cell wall synthesis.

#### Mechanism of Resistance

Predominant mechanisms of bacterial resistance to cephalosporins include the presence of extended-spectrum beta-lactamases and enzymatic hydrolysis.

#### Antimicrobial Activity

Cefazolin has been shown to be active against most isolates of the following microorganisms:

##### **Gram-positive Bacteria**

*Staphylococcus aureus* (methicillin-susceptible isolates only)

*Streptococcus agalactiae*

*Streptococcus pyogenes*

##### **Gram-negative Bacteria**

*Escherichia coli*

*Proteus mirabilis*

Most isolates of indole positive *Proteus* (*Proteus vulgaris*), *Enterobacter* spp., *Morganella morganii*, *Providencia rettgeri*, *Serratia* spp.,

and *Pseudomonas* spp. are resistant to cefazolin.

### 13 NONCLINICAL TOXICOLOGY

#### 13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Mutagenicity studies and long-term studies in animals to determine the carcinogenic potential of cefazolin have not been performed.

### 15 REFERENCES

1. Czarny D, Prichard PJ, Fennessy M, Lewis S. Anaphylactoid reaction to 50% solution of dextrose. *Med J Aust* 1980;2:255-258.
2. Guharoy, SR, Barajas M. Probably Anaphylactic Reaction to Corn-Derived Dextrose Solution. *Vet Hum Toxicol* 1991;33:609-610.

### 16 HOW SUPPLIED/STORAGE AND HANDLING

Cefazolin injection is supplied as a premixed frozen iso-osmotic solution in 100 mL single-use GALAXY plastic containers as follows:

2G3508	NDC 67798-3508-1	2 g cefazolin in 100 mL	Supplied 12 bags per case
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Store in a freezer capable of maintaining a temperature of -20°C/-4°F or below [see *Dosage and Administration* (2.3)].

Handle frozen product containers with care. Product containers may be fragile in the frozen state.

### 17 PATIENT COUNSELING INFORMATION

- Advise patients that allergic reactions, including serious allergic reactions could occur and that serious reactions require immediate treatment and discontinuation of Cefazolin injection.
- Advise patients to report to their health care provider any previous allergic reactions to cefazolin, cephalosporins, penicillins, or other similar antibacterial drugs.
- Advise patients that diarrhea is a common problem caused by antibacterial drugs, which usually ends when the antibacterial drug is discontinued. Sometimes after starting treatment with antibacterial drugs, patients can develop watery and bloody stools (with or without stomach cramps and fever) even as late as two or more months after having taken the last dose of the antibacterial drug. If this occurs, advise patients to contact a physician as soon as possible.
- Inform patients that antibacterial drugs, including Cefazolin injection, should only be used to prevent bacterial infections. They do not treat viral infections (e.g., the common cold).

Cefazolin injection is manufactured for Celerity Pharmaceuticals, LLC by Baxter Healthcare Corporation, Deerfield, IL 60015 USA. GALAXY is a registered trademark of Baxter International Inc.

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