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HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use MEROPENEM FOR INJECTION safely and effectively. See full prescribing information for MEROPENEM FOR INJECTION. MEROPENEM for injection, for intravenous use Initial U.S. Approval: 1996

Warnings and Precautions, Rhabdomyolysis (5.3) 12/2024

INDICATIONS AND USAGE

Meropenem for injection is a parenteral antibiogram indicated for the treatment of: • Complicated skin and skin structure infections (adult patients and pediatric patients 3 months of age and older only). (1.1)

• Bacterial meningitis (pediatric patients 3 months of age and older only). (1.3)

To reduce the development of drug-resistant bacteria and maintain the effectiveness of meropenem for injection and other antibiogram drugs, meropenem for injection should only be used to treat or prevent infections that are proven or strongly suspected to be caused by susceptible bacteria.

DOSE AND ADMINISTRATION

• 500 mg every 8 hours by intravenous infusion over 15 to 30 minutes for complicated skin and skin structure infections (cSSSI) for adult patients. When treating infections caused by Pseudomonas aeruginosa, a dose of 1 gram every 8 hours is recommended. (2.1)

• 1 gram every 8 hours by intravenous infusion over 15 minutes to 30 minutes for intra-abdominal infections for adult patients. (2.1)

• 1 gram every 8 hours by intravenous bolus injection (5 mL to 20 mL) over 3 minutes to 5 minutes for adult patients. (2.1)

• Dosage should be reduced in adult patients with renal impairment. (2.2)

Table with 3 columns: Creatinine Clearance (mL/min), Dose (dependent on type of infection), Dosing Interval. Rows include Greater than 50, 26-50, 10-25, and Less than 10.

Recommended meropenem for injection Dosage Schedule for Pediatric Patients 3 Months of Age and Older with Normal Renal Function (2.3)

Table with 3 columns: Age Group, Dose (mg/kg), Dosing Interval. Rows include Infants less than 32 weeks GA and PNA less than 2 weeks, Infants less than 32 weeks GA and PNA 2 weeks and older, Infants 32 weeks and older GA and PNA less than 2 weeks, Infants 32 weeks and older GA and PNA 2 weeks and older.

• Intravenous infusion is to be given over approximately 15 minutes to 30 minutes. • Intravenous bolus injection (5 mL to 20 mL) is to be given over approximately 3 minutes to 5 minutes. • There is no experience in pediatric patients with renal impairment. • *20 mg/kg (or 1 gram for pediatric patients weighing over 50 kg) every 8 hours is recommended when treating complicated skin and skin structure infections caused by P. aeruginosa. (2.3)

Pediatric patients less than 3 months of age

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DOSE AND ADMINISTRATION

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• 1 gram every 8 hours by intravenous infusion over 15 minutes to 30 minutes for intra-abdominal infections for adult patients. (2.1)

• 1 gram every 8 hours by intravenous bolus injection (5 mL to 20 mL) over 3 minutes to 5 minutes for adult patients. (2.1)

• Dosage should be reduced in adult patients with renal impairment. (2.2)

Table with 3 columns: Creatinine Clearance (mL/min), Dose (dependent on type of infection), Dosing Interval. Rows include Greater than 50, 26-50, 10-25, and Less than 10.

Recommended meropenem for injection Dosage Schedule for Pediatric Patients 3 Months of Age and Older with Normal Renal Function (2.3)

Table with 3 columns: Age Group, Dose (mg/kg), Dosing Interval. Rows include Infants less than 32 weeks GA and PNA less than 2 weeks, Infants less than 32 weeks GA and PNA 2 weeks and older, Infants 32 weeks and older GA and PNA less than 2 weeks, Infants 32 weeks and older GA and PNA 2 weeks and older.

• Intravenous infusion is to be given over approximately 15 minutes to 30 minutes. • Intravenous bolus injection (5 mL to 20 mL) is to be given over approximately 3 minutes to 5 minutes. • There is no experience in pediatric patients with renal impairment. • *20 mg/kg (or 1 gram for pediatric patients weighing over 50 kg) every 8 hours is recommended when treating complicated skin and skin structure infections caused by P. aeruginosa. (2.3)

Pediatric patients less than 3 months of age

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DOSE AND ADMINISTRATION

2.1 Adult Patients
The recommended dose of meropenem for injection is 500 mg every 8 hours for skin and skin structure infections and 1 gram given every 8 hours for intra-abdominal infections. When treating complicated skin and skin structure infections caused by P. aeruginosa, a dose of 1 gram every 8 hours is recommended. Meropenem for injection should be administered by intravenous infusion over approximately 15 minutes to 30 minutes. Doses of 1 gram may also be administered as an intravenous bolus injection (5 mL to 20 mL) over approximately 3 minutes to 5 minutes.

2.2 Use in Adult Patients with Renal Impairment
Dosage should be reduced in patients with creatinine clearance of 50 mL/min or less. (See dosing table below)
When only serum creatinine is available, the following formula (Cockcroft and Gault equation*) may be used to estimate creatinine clearance.
Males: Creatinine Clearance (mL/min) = (Weight (kg) x (140 - age)) / (72 x serum creatinine (mg/dL))
Females: 0.85 x above value

Table 1: Recommended Meropenem for Injection Dosage Schedule for Adult Patients with Renal Impairment. Columns: Creatinine Clearance (mL/min), Dose (dependent on type of infection), Dosing Interval.

There is inadequate information regarding the use of meropenem for injection in patients on hemodialysis or peritoneal dialysis.

Use in Pediatric Patients

Pediatric Patients 3 Months of Age and Older
• For pediatric patients 3 months of age and older, the meropenem for injection dose is 10 mg/kg, 20 mg/kg or 40 mg/kg every 8 hours (maximum dose is 2 grams every 8 hours), depending on the type of infection (cSSSI, cIAI, intra-abdominal infection or meningitis). See dosing table 2 below.
• For pediatric patients weighing over 50 kg administer meropenem for injection at a dose of 500 mg every 8 hours for cSSSI, 1 gram every 8 hours for cIAI and 2 grams every 8 hours for meningitis.
• Administer meropenem for injection as an intravenous infusion over approximately 15 minutes to 30 minutes or as an intravenous bolus injection (5 mL to 20 mL) over approximately 3 minutes to 5 minutes.
• There is limited safety data available to support the administration of a 40 mg/kg (up to a maximum of 2 grams) bolus dose.

Table 2: Recommended Meropenem for Injection Dosage Schedule for Pediatric Patients 3 Months of Age and Older with Normal Renal Function. Columns: Type of Infection, Dose (mg/kg), Up to a Maximum Dose, Dosing Interval.

There is no experience in pediatric patients with renal impairment. When treating cSSSI caused by P. aeruginosa, a dose of 20 mg/kg (or 1 gram for pediatric patients weighing over 50 kg) every 8 hours is recommended.

Pediatric Patients Less Than 3 Months of Age

For pediatric patients (with normal renal function) less than 3 months of age, with complicated intra-abdominal infections, the meropenem for injection dose is based on gestational age (GA) and postnatal age (PNA). See dosing table 3 below. meropenem for injection should be given as intravenous infusion over 30 minutes.

Table 3: Recommended Meropenem for Injection Dosage Schedule for Pediatric Patients Less Than 3 Months of Age with Complicated Intra-abdominal Infections and Normal Renal Function. Columns: Age Group, Dose (mg/kg), Dose Interval.

There is no experience in pediatric patients with renal impairment.

Preparation and Administration of Meropenem for Injection

Parenteral drug products should be inspected visually for particulate matter and discoloration prior to administration, whenever solution and container permit.

For Intravenous Bolus Administration
Reconstitute injection vials (500 mg and 1 gram) with sterile Water for Injection (see table 4 below). Shake to dissolve and let stand until clear.

Table 4: Volume of Sterile Water for Injection for Reconstitution of Injection Vials. Columns: Vial Size, Diluent Added (mL), Approximate Withdrawable Volume (mL), Approximate Average Concentration (mg/mL).

For Infusion
• Injection vials (500 mg and 1 gram) may be directly re-constituted with a compatible infusion fluid.
• Alternatively, an injection vial may be re-constituted, then the resulting solution added to an intravenous container and further diluted with an appropriate infusion fluid (see Dosage and Administration (2.5) and (2.6)).
• Do not use flexible container in series connections.

2.5 Compatibility
Compatibility of meropenem for injection with other drugs has not been established. Meropenem for injection should not be mixed with or physically added to solutions containing other drugs.

2.6 Stability and Storage
Freshly prepared solutions of meropenem for injection should be used. However, re-constituted solutions of meropenem for injection maintain satisfactory potency under the conditions described below. Solutions of intravenous meropenem for injection should not be frozen.

Intravenous Bolus Administration
Meropenem for injection vials re-constituted with sterile Water for Injection for bolus administration up to 50 mg/mL of meropenem for injection may be stored for up to 3 hours at up to 25°C (77°F) or for 13 hours at up to 5°C (41°F).

Intravenous Infusion Administration
Solutions prepared for infusion (meropenem for injection concentrations ranging from 1 mg/mL to 20 mg/mL) re-constituted with Sodium Chloride Injection 0.9% may be stored for 1 hour at up to 25°C (77°F) or 15 hours at up to 5°C (41°F). Solutions prepared for infusion (meropenem for injection concentrations ranging from 1 mg/mL to 20 mg/mL) re-constituted with Dextrose Injection 5% should be used immediately.

3 DOSAGE FORMS AND STRENGTHS
Single dose clear glass vials of meropenem for injection, USP containing 500 mg or 1 gram (as the trihydrate blended with anhydrous sodium carbonate for re-constitution) of sterile meropenem powder.

4 CONTRAINDICATIONS
Meropenem for injection is contraindicated in patients with known hypersensitivity to any component of this product or to other drugs in the same class or in patients who have demonstrated anaphylactic reactions to beta-lactams.

5 WARNINGS AND PRECAUTIONS
5.1 Hypersensitivity Reactions
Serious and occasionally fatal hypersensitivity (anaphylactic) reactions have been reported in patients receiving therapy with beta-lactams. These reactions are more likely to occur in individuals with a history of sensitivity to multiple allergens.

There have been reports of individuals with a history of penicillin hypersensitivity who have experienced severe hypersensitivity reactions when treated with another beta-lactam. Before initiating therapy with meropenem for injection, it is important to inquire about previous hypersensitivity reactions to penicillins, cephalosporins, other beta-lactams, and other allergens. If an allergic reaction to meropenem for injection occurs, discontinue the drug immediately.

5.2 Severe Cutaneous Adverse Reactions
[Severe cutaneous adverse reactions (SCAR) such as Stevens-Johnson syndrome (SJS), toxic epidermal necrolysis (TEN), drug reaction with eosinophilia and systemic symptoms (DRESS), erythema multiforme (EM) and acute generalized exanthematous pustulosis (AGEP) have been reported in patients receiving meropenem for injection (see Adverse Reactions (5.2)).]
If signs and symptoms suggestive of these reactions appear, meropenem should be withdrawn immediately and an alternative treatment should be considered.

5.3 Rhabdomyolysis
Rhabdomyolysis has been reported with the use of meropenem (see Adverse Reactions (5.3)). If signs or symptoms of rhabdomyolysis such as muscle pain, tenderness or weakness, dark urine or elevated creatine phosphokinase are observed, discontinue meropenem for injection and initiate appropriate therapy.

5.4 Seizure Potential
Seizures and other adverse CNS experiences have been reported during treatment with meropenem for injection. These experiences have occurred most commonly in patients with CNS disorders (e.g., brain lesions or history of seizures) or with bacterial meningitis and/or compromised renal function (see Adverse Reactions (6.1) and Drug Interactions (7.2)).

During clinical investigations, 2004 immunocompetent adult patients were treated for non-CNS infections with the overall seizure rate being 0.7% (based on 20 patients with this adverse event). All meropenem-treated patients with seizures had pre-existing contributing factors. Among these are included prior history of seizures or CNS abnormality and concomitant medications with seizure potential. Dosage adjustment is recommended in patients with advanced age and/or adult patients with creatinine clearance of 50 mL/min or less (see Dosage and Administration (2.2)).

Close adherence to the recommended dosage regimen is urged, especially in patients with known factors that predispose to convulsive activity. Continue anti-convulsant therapy in patients with known seizure disorders. If focal tremors, myoclonus, or seizures occur, evaluate neurologically, place on anti-convulsant therapy if not already instituted, and re-examine the dosage of meropenem for injection to determine whether it should be decreased or discontinued.

5.5 Risk of Breakthrough Seizures Due to Drug Interaction with Valproic Acid
The concomitant use of meropenem and valproic acid or divalproex sodium is generally not recommended. Case reports in the literature have shown that co-administration of carbapenems, including meropenem, to patients receiving valproic acid or divalproex sodium results in a reduction in valproic acid concentrations. The valproic acid concentrations may drop below the therapeutic range as a result of this interaction, therefore increasing the risk of breakthrough seizures.

Increasing the dose of valproic acid or divalproex sodium may not be sufficient to overcome this interaction. Consider administration of antiepileptic drugs other than carbapenems to treat infections in patients whose seizures are well controlled on valproic acid or divalproex sodium. If administration of meropenem for injection is necessary, consider supplemental anti-convulsant therapy (see Drug Interactions (7.2)).

5.6 Clostridioides difficile-associated Diarrhea
Clostridioides difficile-associated diarrhea (CDAD) has been reported with use of nearly all antibiogram agents, including meropenem for injection, and may range in severity from mild diarrhea to fatal colitis. Treatment with antibiogram 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 antibiogram drug use. Careful medical history is necessary since CDAD has been reported to occur over two months after the administration of antibiogram agents.

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

5.7 Development of Drug-Resistant Bacteria
Prescribing meropenem for injection in the absence of a 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.

5.8 Overgrowth of Nonsusceptible Organisms
As with other broad-spectrum antibiogram drugs, prolonged use of meropenem may result in overgrowth of nonsusceptible organisms. Repeated evaluation of the patient is essential. If superinfection does occur during therapy, appropriate measures should be taken.

5.9 Thrombocytopenia
In patients with renal impairment, thrombocytopenia has been observed but no clinical bleeding reported (see Dosage and Administration (2.2), Adverse Reactions (6.1), Use in Specific Populations (6.5) and (6.6), and Clinical Pharmacology (12.3)).

5.10 Potential for Neurotoxic Impairment
Alert patients receiving meropenem for injection on an outpatient basis regarding adverse events such as seizures, delirium, headaches and/or paresthesias that could interfere with mental alertness and/or cause motor impairment. Until it is reasonably well established that meropenem for injection is well tolerated, advise patients not to operate machinery or motorized vehicles (see Adverse Reactions (6.1)).

6 ADVERSE REACTIONS
The following are discussed in greater detail in other sections of labeling:
• Hypersensitivity Reactions (see Warnings and Precautions (5.1))
• Severe Cutaneous Adverse Reactions (see Warnings and Precautions (5.2))
• Rhabdomyolysis (see Warnings and Precautions (5.3))
• Seizure Potential (see Warnings and Precautions (5.4))
• Risk of Breakthrough Seizures Due to Drug Interaction with Valproic Acid (see Warnings and Precautions (5.5))
• Clostridioides difficile-associated Diarrhea (see Warnings and Precautions (5.6))
• Development of Drug-Resistant Bacteria (see Warnings and Precautions (5.7))
• Overgrowth of Nonsusceptible Organisms (see Warnings and Precautions (5.8))
• Thrombocytopenia (see Warnings and Precautions (5.9))
• Potential for Neurotoxic Impairment (see Warnings and Precautions (5.10))

6.1 Adverse Reactions from Clinical Trials
Because clinical trials are conducted under widely varying conditions, adverse reactions 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.

Adult Patients:
During clinical investigations, 2004 immunocompetent adult patients were treated for non-CNS infections with meropenem for injection (500 mg or 1 gram every 8 hours). Deaths in 5 patients were assessed as possibly related to meropenem: 36 (1.2%) patients had meropenem discontinued because of adverse events. Many patients in these trials were severely ill and had multiple background diseases, physiological impairments and were receiving multiple other drug therapies. In the seriously ill patient population, it was not possible to determine the relationship between observed adverse events and therapy with meropenem for injection.

The following adverse reaction frequencies were derived from the clinical trials in the 2004 patients treated with meropenem for injection.

Local Adverse Reactions
Local adverse events that were reported with meropenem for injection were as follows:

Table with 2 columns: Inflammation at the injection site, Injection site reaction, Paresthesia, Pain at the injection site, Edema at the injection site.

Systemic Adverse Reactions
Systemic adverse events that were reported with meropenem for injection occurring in greater than 1.0% of the patients were diarrhea (4.8%), nausea/vomiting (3.6%), headache (2.3%), rash (1.9%), sepsis (1.6%), constipation (1.4%), apnea (1.3%), shock (1.2%), and pruritus (1.2%).

Additional systemic adverse events that were reported with meropenem for injection and occurring in less than or equal to 1.0% but greater than 0.1% of the patients are listed below within each body system in order of decreasing frequency:

Body as a Whole: pain, abdominal pain, chest pain, fever, back pain, abdominal enlargement, chills, pelvic pain
Cardiovascular: heart failure, heart arrest, tachycardia, hypertension, myocardial infarction, pulmonary embolus, bradycardia, hypotension, syncope
Digestive system: oral moniliasis, anorexia, cholestatic jaundice/cholelithiasis, flatulence, ileus, hepatic failure, dyspepsia, intestinal obstruction
Hemic/Lymphatic system: hypochromic anemia, hypoleukemia
Metabolic/Nutritional: peripheral edema, hypoxia
Nervous System: insomnia, agitation, delirium, confusion, dizziness, seizure, nervousness, paresthesia, hallucinations, somnolence, anxiety, depression, asthenia (see Warnings and Precautions (5.4) and (5.10))

Respiratory: respiratory disorder, dyspnea, pleural effusion, asthma, cough increased, lung edema
Skin and Appendages: urticaria, sweating, skin ulcer
Urogenital System: dysuria, kidney failure, vaginal moniliasis, urinary incontinence

Adverse Laboratory Changes
Adverse laboratory changes that were reported and occurring in greater than 0.2% of the patients were as follows:
Hepatic: increased alanine transaminase (ALT), aspartate transaminase (AST), alkaline phosphatase, lactate dehydrogenase (LDH), and bilirubin
Hematologic: increased platelets, increased eosinophils, decreased platelets, decreased hemoglobin, decreased hematocrit, decreased white blood cell (WBC), shortened prothrombin time and shortened partial thromboplastin time, leukocytosis, hypokalemia
Renal: increased creatinine and increased blood urea nitrogen (BUN)

Urinalysis: presence of red blood cells

Complicated Skin and Skin Structure Infections
In a study of complicated skin and skin structure infections, the adverse reactions were similar to those listed above. The most common adverse events occurring in greater than 5% of the patients were: headache (7.8%), nausea (7.8%), constipation (7.0%), diarrhea (7.0%), emesis (5.5%), and pain (5.1%). Adverse events with an incidence of greater than 1%, and not listed above, include: pharyngitis, accidental injury, gastrointestinal disorder, hypoglycemia, peripheral vascular disorder, and pneumonia.

Patients with Renal Impairment:
For patients with varying degrees of renal impairment, the incidence of heart failure, kidney failure, seizure and shock reported with meropenem for injection, increased in patients with moderately severe renal impairment (creatinine clearance 10 to 26 mL/min) (see Dosage and Administration (2.2), Warnings and Precautions (5.10), Use in Specific Populations (6.5) and (6.6) and Clinical Pharmacology (12.3)).

Pediatric Patients:
Systemic and Local Adverse Reactions
Pediatric Patients with Serious Bacterial Infections (excluding Bacterial Meningitis):
Meropenem for injection was studied in 615 pediatric patients (3 months to less than 13 years of age) with serious bacterial infections (excluding meningitis, see next section) at dosages of 10 mg/kg to 20 mg/kg every 8 hours. The types of systemic and local adverse events seen in these patients are similar to the adults, with the most common adverse events reported as possibly, probably, or definitely related to meropenem for injection and their rates of occurrence as follows:

Table with 2 columns: Diarrhea, Rash, Nausea and vomiting, Diarrhea, Rash, Nausea and vomiting.

Pediatric Patients with Bacterial Meningitis:
Meropenem for injection was studied in 321 pediatric patients (3 months to less than 17 years of age) with meningitis at a dosage of 40 mg/kg every 8 hours. The types of systemic and local adverse events seen in these patients are similar to the adults, with the most common adverse reactions reported as possibly, probably, or definitely related to meropenem for injection and their rates of occurrence as follows:

Table with 2 columns: Diarrhea, Rash, Oral Moniliasis, Glossitis, Diarrhea, Rash (mostly diaper area moniliasis), Oral Moniliasis, Glossitis.

In the meningitis studies, the rates of seizure activity during therapy were comparable between patients with no CNS abnormalities who received meropenem and those who received comparator agents (either cotrimoxazole or ceftriaxone). In the meropenem for injection treated group, 12/15 patients with seizures had late onset seizures (defined as occurring on day 3 or later) versus 7/20 in the comparator arm. The meropenem group had a statistically higher number of patients with transient elevation of liver enzymes.

Pediatric Patients (Neonates and Infants less than 3 months of Age):
Meropenem for injection was studied in 200 neonates and infants less than 3 months of age. The study was open-label, uncontrolled, 58% of the infants received concomitant medications, and the majority of adverse events were reported in neonates less than 32 weeks gestational age and critically ill at baseline, making it difficult to assess the relationship of the adverse events to meropenem for injection.

The adverse reactions seen in these patients that were reported and their rates of occurrence are as follows:

Table with 2 columns: Convulsions, Hyperbilirubinemia (conjugated), Vomiting, Nausea and vomiting.

Adverse Laboratory Changes in Pediatric Patients:
Laboratory changes seen in the pediatric studies, including the meningitis studies, were similar to those reported in the adult studies.

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6.2 Post-marketing Experience
The following adverse reactions have been identified during post-approval use of meropenem, including meropenem for injection. Because these reactions are 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.

Worldwide post-marketing adverse reactions not otherwise listed in the Adverse Reactions from Clinical Trials section of this prescribing information and reported as possibly, probably, or definitely drug related are listed within each body system in order of decreasing severity.

Blood and Lymphatic System Disorders: agranulocytosis, neutropenia, and leukopenia; a positive direct or indirect Coombs test, and hemolytic anemia.

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