



MODULE 1- ADMINISTRATIVE PARTICULARS OF THE PRODUCT

1.3 Product Information

1.3.1 Summary of Product Characteristics (SmPC)

1.3.1.1. Name of the medicinal product:

1.3.1.1.1 (Invented) name of the medicinal product:

Generic Name/INN Name:

Combipack of Amoxicillin Sodium for Injection BP 500mg & Sterilised Water for Injections BP

Brand Name:

HAFORMOX

1.3.1.1.2 Strength:

Each combipack contains:

1) One vial of Amoxicillin Sodium for Injection BP

Each vial contains:

Amoxicillin Sodium BP

eq. to Amoxicillin500mg

2) One 10ml ampoule of

Sterilized water for Injections BP

1.3.1.1.3 Pharmaceutical form:

Powder for Injection.



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1.3.1.2. Qualitative and Quantitative Composition:

Sr. No.	Ingredients	Specification	Label Claim	Std. Qty (mg/ Vial)	Function
1.	Sterile Amoxicillin Sodium*	BP	500 mg	500 mg	Active Pharmaceutical Ingredient

Note:

*The quantity of Amoxicillin Sodium BP has to be calculated based on Assay and Water content.

1.3.1.3. Pharmaceutical form:

Dosage Form:

Powder for Injection

Visual & Physical characteristics of the product:

A white coloured powder filled in an Intactly sealed clear glass vials.

1.3.1.4. Clinical particulars:

1.3.1.4.1 Therapeutic indications:

Amoxicillin is indicated for the treatment of the following infections in adults and children:

- Severe infections of the ear, nose and throat (such as mastoiditis, peritonsillar infections, epiglottitis, and sinusitis when accompanied by severe systemic signs and symptoms)
- Acute exacerbations of chronic bronchitis
- Community acquired pneumonia
- Acute cystitis
- Acute pyelonephritis
- Severe dental abscess with spreading cellulitis
- Prosthetic joint infections
- Lyme disease
- Bacterial meningitis
- Bacteremia that occurs in association with, or is suspected to be associated with, any of the infections listed above

Amoxicillin is also indicated for the treatment and prophylaxis of endocarditis.

Consideration should be given to official guidance on the appropriate use of antibacterial agents.

**MODULE 1- ADMINISTRATIVE PARTICULARS OF THE PRODUCT****1.3.4.2 Posology and method of administration:****Posology**

The dose of Amoxicillin that is selected to treat an individual infection should take into account:

- The expected pathogens and their likely susceptibility to antibacterial agents
- The severity and the site of the infection
- The age, weight and renal function of the patient; as shown below

The duration of therapy should be determined by the type of infection and the response of the patient, and should generally be as short as possible. Some infections require longer periods of treatment.

Adults and children \geq 40 kg

Indication*	Dose*
Severe infections of the ear, nose and throat (such as mastoiditis peritonsillar infections, epiglottitis and sinusitis when accompanied by severe systemic signs and symptoms)	750 mg to 2 g every 8 hours, or 2 g every 12 hours, maximum of 12 g/day
Acute exacerbations of chronic bronchitis	
Community acquired pneumonia	
Acute cystitis	
Acute pyelonephritis	
Severe dental abscess with spreading cellulitis	
Prosthetic joint infections	750 mg to 2 g every 8 hours, or 2 g every 12 hours, maximum of 12 g/day
Prophylaxis of endocarditis	2 g single dose 30 to 60 minutes before procedure.
Treatment of endocarditis	1 g to 2 g every 4 to 6 hours, maximum of 12 g/day
Bacterial meningitis	1 g to 2g every 4 to 6 hours, maximum of 12 g/day
Lyme disease	Late stage (systemic involvement): 2 g every 8 hours
Bacteraemia that occurs in association with, or is suspected to be associated with, any of the infections listed	1 g to 2 g every 4, 6 or 8 hours, maximum of 12 g/day
*Consideration should be given to the official treatment guidelines for each indication.	

Intramuscular



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Maximum daily dosage: 4 g/day.

Maximum single dose: 1 g.

Children < 40 kg

Infants and toddlers >3 months and children < 40 kg Indication*	Dose*
Severe infections of the ear, nose and throat (such as mastoiditis peritonsillar infections, epiglottis and sinusitis when accompanied by severe systemic signs and symptoms	20 to 200 mg/kg/day given in 2 to 4 equally divided doses of up to 25 mg/kg or infusions of up to 50 mg/kg
Community acquired pneumonia	
Acute cystitis	
Acute pyelonephritis	
Severe dental abscess with spreading cellulitis	
Prophylaxis of endocarditis	50 mg/kg single dose 30 to 60 minutes before procedure
Treatment of endocarditis	200 mg/kg/day in 3 to 4 equally divided does of up to 25 mg/kg or infusions of up to 50 mg/kg
Bacterial meningitis	100 to 200 mg/kg/day in 3 to 4 equally divided doses of up to 25 mg/kg or infusions of up to 50 mg/kg
Lyme disease	Early stage: 25 to 50 mg/kg/day in three divided doses for 10 days (range 10 to 21 days) Late stage (systemic involvement): 50 mg/kg/day in three divided doses
Bacteraemia that occurs in association with, or is suspected to be associated with, any of the infections listed	50 to 150 mg/kg/day given in 3 equally divided doses of up to 25 mg/kg or infusions of up to 50 mg/kg

*Consideration should be given to the official treatment guidelines for each indication.

Neonates ≥ 4kg and infants up to 3 months Indication*	Dose*
Most infections	Usual daily dose of 20 to 150 mg/kg/day given in 3 equally divided doses of up to 25 mg/kg or infusions of up to 50 mg/kg
Treatment of endocarditis	150 mg/kg/day given in 3 equally divided doses of up to 25 mg/kg or infusions of up to 50 mg/kg



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Bacterial meningitis	150 mg/kg/day given in three divided doses
Lyme disease	Early stage: 25 to 50 mg/kg/day in three divided doses for 10 days (range 10 to 21 days) Late stage (systemic involvement): 50 mg/kg/day in three divided doses
Bacteraemia that occurs in association with, or is suspected to be associated with, any of the infections listed	Usual daily dose of 50 to 150 mg/kg/day given in 3 equally divided doses of up to 25 mg/kg or infusions of up to 50 mg/kg
*Consideration should be given to the official treatment guidelines for each indication.	
Premature Neonates < 4kg Indication*	Dose*
Most infections	Usual daily dose of 20 to 100 mg/kg/day given in 2 equally divided doses of up to 25 mg/kg or infusions of up to 50 mg/kg
Treatment of endocarditis	100 mg/kg/day given in two divided doses
Bacterial meningitis	100 mg/kg/day given in two divided doses
Lyme disease	Early stage: 25 to 50 mg/kg/day in two divided doses for 10 days (range 10 to 21 days) Late stage (systemic involvement): 50 mg/kg/day in two divided doses
Bacteraemia that occurs in association with, or is suspected to be associated with, any of the infections listed	Usual daily dose of 50 to 100 mg/kg/day given in 2 equally divided doses of up to 25 mg/kg or infusions of up to 50 mg/kg
*Consideration should be given to the official treatment guidelines for each indication.	

Intramuscular:

Maximum daily dosage: 120 mg/kg/day as 2 to 6 equally divided doses.

Elderly

No adjustment needed; as for adults.

Renal impairment

GFR (ml/min)	Adults and children ≥ 40 kg		Children < 40 kg	
	Intravenous	Intramuscular	Intravenous	Intramuscular
greater than 30	No adjustment	No adjustment	No adjustment	No adjustment
10 to 30	1g stat, then 500 mg to 1 g twice day	500 mg every 12 hours	25 mg/kg twice daily	15 mg/kg every 12 hours

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less than 10	1 g stat, then 500 mg/day	500 mg/day given as a single dose	25 mg/kg/day given as a single dose	15 mg/kg/day given as a single dose
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In patients receiving haemodialysis and peritoneal dialysis

Amoxicillin may be removed from the circulation by haemodialysis.

	Haemodialysis		Peritoneal dialysis	
	Intravenous	Intramuscular	Intravenous	Intramuscular
Adults and children ≥ 40 kg	1 g at the end of dialysis, then 500 mg every 24 hours	500 mg during dialysis, 500 mg at the end, then 500 mg every 24 hours	1 g stat, then 500 mg/day	500 mg/day given as a single dose
Children < 40 kg	25 mg/kg stat and 12.5 mg/kg at the end of the dialysis, then 25 mg/kg/day	15 mg/kg during and at the end of dialysis, then 15 mg/kg every 24 hours	25 mg/kg/day given as a single dose	15 mg/kg/day given as a single dose

Method of administration:

The standard recommended route of administration is by intravenous injection or intravenous infusion. Intramuscular administration should only be considered when the intravenous route is not possible or less appropriate for the patient.

Intravenous Dissolve 250mg in 5mL Water for Injections Ph Eur (final volume 5.2mL).

Injection: Dissolve 500mg in 10mL Water for Injections Ph Eur (final volume 10.4mL).

Dissolve 1g in 20mL Water for Injections Ph Eur (final volume 20.8mL).

Amoxicillin Sodium for Injection BP, when diluted may be injected slowly into a vein or infusion line over a period of three to four minutes.

Intravenous Infusion:

Prepare as above and add to an iv solution in a mini-bag or in-line burette. Administer over 30 to 60 minutes. Alternatively, the appropriate volume of iv fluid may be transferred from the infusion bag into the vial, using a suitable reconstitution device, and drawn back into the bag after dissolution.

Intramuscular Injection: Add 1.5mL Water for Injections Ph Eur to 250mg and shake vigorously (final volume 1.7mL).

Add 2.5mL Water for Injections Ph Eur to 500mg and shake vigorously (final volume 2.9mL).



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The maximum single dose is 1 g in adults and children ≥ 40 kg.

Do not inject more than 60 mg/kg at one time in children < 40 kg.

1.3.4.3 Contraindications:

Hypersensitivity to the active substance, to any of the penicillins or to any of the excipients listed.

History of a severe immediate hypersensitivity reaction (e.g. anaphylaxis) to another beta-lactam agent (e.g. a cephalosporin, carbapenem or monobactam).

1.3.4.4 Special warnings and precautions for use:

Hypersensitivity reactions

Before initiating therapy with amoxicillin, careful enquiry should be made concerning previous hypersensitivity reactions to penicillins, cephalosporins or other beta-lactam agents.

Serious and occasionally fatal hypersensitivity reactions (including anaphylactoid and severe cutaneous adverse reactions) have been reported in patients on penicillin therapy.

These reactions are more likely to occur in individuals with a history of penicillin hypersensitivity and in atopic individuals. If an allergic reaction occurs, amoxicillin therapy must be discontinued and appropriate alternative therapy instituted.

Care is also necessary if large doses of sodium (as amoxicillin sodium) are given to patients with impaired renal function or heart failure. Renal and haematological status should be monitored during prolonged and high-dose therapy.

Amoxicillin should preferably not be given to patients with undiagnosed pharyngitis (who may have mononucleosis) or patients with lymphatic leukaemia or possibly HIV infection who may also be at increased risk of developing skin rashes with amoxicillin.

There is a potential for increased serum levels of amoxicillin in the newborn or in young infants due to reduced renal excretion.

Non-susceptible microorganisms

Amoxicillin is not suitable for the treatment of some types of infection unless the pathogen is already documented and known to be susceptible or there is a very high likelihood that the pathogen would be suitable for treatment with amoxicillin. This particularly applies when considering the treatment of patients with urinary tract infections and severe infections of the ear, nose and throat.

Convulsions



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Convulsions may occur in patients with impaired renal function or in those receiving high doses or in patients with predisposing factors (e.g. history of seizures, treated epilepsy or meningeal disorders).

Renal impairment

In patients with renal impairment, the dose should be adjusted according to the degree of impairment.

Skin reactions

The occurrence at the treatment initiation of a feverish generalised erythema associated with pustula may be a symptom of acute generalised exanthemous pustulosis (AEGP). This reaction requires amoxicillin discontinuation and contra-indicates any subsequent administration.

Amoxicillin should be avoided if infectious mononucleosis is suspected since the occurrence of a morbilliform rash has been associated with this condition following the use of amoxicillin.

Jarisch-Herxheimer reaction

The Jarisch-Herxheimer reaction has been seen following amoxicillin treatment of Lyme disease. It results directly from the bactericidal activity of amoxicillin on the causative bacteria of Lyme disease, the spirochaete *Borrelia burgdorferi*. Patients should be reassured that this is a common and usually self-limiting consequence of antibiotic treatment of Lyme disease.

Overgrowth of non-susceptible microorganisms

Prolonged use may occasionally result in overgrowth of non-susceptible organisms.

Antibiotic-associated colitis has been reported with nearly all antibacterial agents and may range in severity from mild to life threatening. Therefore, it is important to consider this diagnosis in patients who present with diarrhoea during, or subsequent to, the administration of any antibiotics. Should antibiotic-associated colitis occur, amoxicillin should immediately be discontinued, a physician consulted and an appropriate therapy initiated. Anti-peristaltic medicinal products are contra-indicated in this situation.

Prolonged therapy

Periodic assessment of organ system functions; including renal, hepatic and haematopoietic function is advisable during prolonged therapy. Elevated liver enzymes and changes in blood counts have been reported.

Anticoagulants

Prolongation of prothrombin time has been reported rarely in patients receiving amoxicillin. Appropriate monitoring should be undertaken when anticoagulants are prescribed concomitantly.



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Adjustments in the dose of oral anticoagulants may be necessary to maintain the desired level of anticoagulation.

Crystalluria

In patients with reduced urine output, crystalluria has been observed very rarely, predominantly with parenteral therapy. During the administration of high doses of amoxicillin, it is advisable to maintain adequate fluid intake and urinary output in order to reduce the possibility of amoxicillin crystalluria. In patients with bladder catheters, a regular check of patency should be maintained.

Interference with diagnostic tests

Elevated serum and urinary levels of amoxicillin are likely to affect certain laboratory tests. Due to the high urinary concentrations of amoxicillin, false positive readings are common with chemical methods.

It is recommended that when testing for the presence of glucose in urine during amoxicillin treatment, enzymatic glucose oxidase methods should be used.

The presence of amoxicillin may distort assay results for oestriol in pregnant women.

Amoxicillin sodium 250mg, 500mg and 1g powder for solution for injection contains 0.65mmol (14.9mg), 1.3mmol (29.7mg) and 2.6mmol (59.4mg) of sodium per dose, respectively. To be taken into consideration by patients on a controlled sodium diet.

1.3.4.5 Interaction with other medicinal products and other forms of interaction

Probenecid

Concomitant use of probenecid is not recommended. Probenecid decreases the renal tubular secretion of amoxicillin. Concomitant use of probenecid may result in increased and prolonged blood levels of amoxicillin.

Allopurinol

Concurrent administration of allopurinol during treatment with amoxicillin can increase the likelihood of allergic skin reactions.

Tetracyclines

Tetracyclines and other bacteriostatic drugs may interfere with the bactericidal effects of amoxicillin.

Oral anticoagulants



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Oral anticoagulants and penicillin antibiotics have been widely used in practice without reports of interaction. However, in the literature there are cases of increased international normalised ratio in patients maintained on acenocoumarol or warfarin and prescribed a course of amoxicillin. If co-administration is necessary, the prothrombin time or international normalised ratio should be carefully monitored with the addition or withdrawal of amoxicillin. Moreover, adjustments in the dose of oral anticoagulants may be necessary.

Methotrexate

Penicillins may reduce the excretion of methotrexate causing a potential increase in toxicity.

1.3.4.6 Fertility, Pregnancy and lactation:

Pregnancy

Animal studies do not indicate direct or indirect harmful effects with respect to reproductive toxicity. Limited data on the use of amoxicillin during pregnancy in humans do not indicate an increased risk of congenital malformations. Amoxicillin may be used in pregnancy when the potential benefits outweigh the potential risks associated with treatment.

Breast-feeding

Amoxicillin is excreted into breast milk in small quantities with the possible risk of sensitisation. Consequently, diarrhoea and fungus infection of the mucous membranes are possible in the breast-fed infant, so that breast-feeding might have to be discontinued. Amoxicillin should only be used during breast-feeding after benefit/risk assessment by the physician in charge.

Fertility

There are no data on the effects of amoxicillin on fertility in humans. Reproductive studies in animals have shown no effects on fertility.

1.3.4.7 Effects on ability to drive and use machines:

No studies on the effects on the ability to drive and use machines have been performed. However, undesirable effects may occur (e.g. allergic reactions, dizziness, convulsions), which may influence the ability to drive and use machines.

1.3.4.8 Undesirable effects:

The most commonly reported adverse drug reactions (ADRs) are diarrhoea, nausea and skin rash. The following terminologies have been used in order to classify the occurrence of undesirable effects.



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Very common ($\geq 1/10$)

Common ($\geq 1/100$ to $< 1/10$)

Uncommon ($\geq 1/1,000$ to $< 1/100$)

Rare ($\geq 1/10,000$ to $< 1/1,000$)

Very rare ($< 1/10,000$)

Not known (cannot be estimated from the available data)

<u>Infections and infestations</u>	
Very rare	Mucocutaneous candidiasis
<u>Blood and lymphatic system disorders</u>	
Very rare	Reversible leucopenia (including severe neutropenia or agranulocytosis), reversible thrombocytopenia and haemolytic anaemia. Prolongation of bleeding time and prothrombin time
<u>Immune system disorders</u>	
Very rare	Severe allergic reactions, including angioneurotic edema, anaphylaxis, serum sickness and hypersensitivity vasculitis
Not known	Jarisch - Herxheimer reaction
<u>Metabolism and nutrition disorders</u>	
Not known	Electrolyte disturbances such as hypokalaemia (due to administration of large amounts of sodium).
<u>Nervous system disorders</u>	
Very rare	Hyperkinesia, dizziness, aseptic meningitis and convulsions
Not known	Signs of central nervous system toxicity; generally associated with large intravenous doses of amoxicillin or impaired renal function. Encephalopathy has been reported following intrathecal administration and can be fatal. A coma may develop with high doses of amoxicillin.
<u>Gastrointestinal disorders</u>	
<i>Clinical Trial Data</i>	
*Common	Diarrhoea and nausea
*Uncommon	Vomiting
<i>Post-marketing Data</i>	

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Very rare	Antibiotic associated colitis (including pseudo membranous colitis and haemorrhagic colitis)
Not known	Sore mouth or tongue, commonly occur after oral administration but may also occur following parenteral administration
<u>Hepatobiliary disorders</u>	
Very rare	Hepatitis and cholestatic jaundice. A moderate rise in AST and/or ALT.
<u>Skin and subcutaneous tissue disorders</u>	
<i>Clinical Trial Data</i>	
*Common	Skin rash
*Uncommon	Urticaria and pruritus
<i>Post-marketing Data</i>	
Very rare	Skin reactions such as erythema multiforme, Stevens-Johnson syndrome, toxic epidermal necrolysis, bullous and exfoliative dermatitis, acute generalized exanthematous pustulosis (AGEP) and drug reaction with eosinophilia and systemic symptoms (DRESS).
<u>Renal and urinary tract disorders</u>	
Very rare	Interstitial nephritis Crystalluria
<u>Respiratory, thoracic and mediastinal disorders</u>	
Not known	Bronchospasm, Acute severe dyspnoea and allergic pneumonitis; generally associated with large intravenous doses of amoxicillin or impaired renal function.
<u>Psychiatric disorders</u>	
Not known	Hallucinations
* The incidence of these AEs was derived from clinical studies involving a total of approximately 6,000 adult and paediatric patients taking amoxicillin.	

1.3.4.9 Overdose:**Symptoms and signs of overdose**

Gastrointestinal symptoms (such as nausea, vomiting and diarrhoea) and disturbance of the fluid and electrolyte balances may be evident. Amoxicillin crystalluria, in some cases leading to renal failure, has been observed. Convulsions may occur in patients with impaired renal function or in those receiving high doses.



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Amoxicillin has been reported to precipitate in bladder catheters, predominantly after intravenous administration of large doses. A regular check of patency should be maintained.

Treatment of intoxication

Gastrointestinal symptoms may be treated symptomatically, with attention to the water/electrolyte balance.

Amoxicillin can be removed from the circulation by haemodialysis.

1.3.5. Pharmacological properties:

1.3.5.1 Pharmacodynamic properties:

Pharmacotherapeutic group: Penicillins with extended spectrum,

ATC code: J01CA04

Mechanism of action

Amoxicillin is a semisynthetic penicillin (beta-lactam antibiotic) that inhibits one or more enzymes (often referred to as penicillin-binding proteins, PBPs) in the biosynthetic pathway of bacterial peptidoglycan, which is an integral structural component of the bacterial cell wall. Inhibition of peptidoglycan synthesis leads to weakening of the cell wall, which is usually followed by cell lysis and death.

Amoxicillin is susceptible to degradation by beta-lactamases produced by resistant bacteria and therefore the spectrum of activity of amoxicillin alone does not include organisms which produce these enzymes.

Pharmacokinetic/pharmacodynamic relationship

The time above the minimum inhibitory concentration ($T > MIC$) is considered to be the major determinant of efficacy for amoxicillin.

Mechanisms of resistance

The main mechanisms of resistance to amoxicillin are:

- Inactivation by bacterial beta-lactamases.
- Alteration of PBPs, which reduce the affinity of the antibacterial agent for the target.

Impermeability of bacteria or efflux pump mechanisms may cause or contribute to bacterial resistance, particularly in Gram-negative bacteria.

**MODULE 1- ADMINISTRATIVE PARTICULARS OF THE PRODUCT****1.3.5.2 Pharmacokinetic properties:**

The pharmacokinetic results for studies in which amoxicillin was administered to groups of healthy volunteers given as a bolus intravenous injection are presented below.

Mean pharmacokinetic parameters <i>Bolus intravenous injection</i>					
Dose administered	Peak serum conc (µg/ml)	T 1/2 (h)	AUC (µg.h/ml)	Urinary recovery (% , 0 to 6 h)	
500 mg	32.2	1.07	25.5	66.5	
1000 mg	105.4	0.9	76.3	77.4	

Distribution

About 18% of total plasma amoxicillin is bound to protein and the apparent volume of distribution is around 0.3 to 0.4 l/kg.

Following intravenous administration, amoxicillin has been found in gall bladder, abdominal tissue, skin, fat, muscle tissues, synovial and peritoneal fluids, bile and pus. Amoxicillin does not adequately distribute into the cerebrospinal fluid.

From animal studies there is no evidence for significant tissue retention of drug-derived material. Amoxicillin, like most penicillins, can be detected in breast milk.

Biotransformation

Amoxicillin is partly excreted in the urine as the inactive penicilloic acid in quantities equivalent to up to 10 to 25% of the initial dose.

Elimination

The major route of elimination for amoxicillin is via the kidney

Amoxicillin has a mean elimination half-life of approximately one hour and a mean total clearance of approximately 25 l/hour in healthy subjects. Approximately 60 to 70% of the amoxicillin is excreted unchanged in urine during the first 6 hours after administration of a single 250 mg or 500mg doses of amoxicillin. Various studies have found the urinary excretion to be 50 to 85% for amoxicillin over a 24-hour period.

Concomitant use of probenecid delays amoxicillin excretion.

Gender

Following oral administration of amoxicillin to healthy males and female subjects, gender has no significant impact on the pharmacokinetics of amoxicillin.

Age



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The elimination half-life of amoxicillin is similar for children aged around 3 months to 2 years and older children and adults. For very young children (including preterm newborns) in the first week of life the interval of administration should not exceed twice daily administration due to immaturity of the renal pathway of elimination. 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.

Renal impairment

The total serum clearance of amoxicillin decreases proportionately with decreasing renal function.

Hepatic impairment

Hepatically impaired patients should be dosed with caution and hepatic function monitored at regular intervals.

1.3.6. Pharmaceutical particulars:

1.3.6.1 List of Excipients:

Not Applicable for powder for injection

1.3.6.2 Incompatibilities:

Not applicable

1.3.6.3 Shelf life:

24 months

1.3.6.4 Special precautions for storage:

Store at a temperature not exceeding 30°C. Protect from light.

Should be used immediately after Reconstitution.

1.3.6.5 Nature and contents of container:

Combipack of one 10ml clear glass Vial USP Type III & One 10 ml Plastic ampoule of Sterilised water for injections along with package insert in monocarton.

1.3.6.6 Special precautions for disposal:

No special requirements.

Any unused product or waste material should be disposed of in accordance with local requirements.



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1.3.1.7. Registrant:

Chez Resources Pharmaceutical LTD.

Address: NO 7 Calabar street, Fegge, Onitsha, Anambra state

E-mail: chezrespharm@gmail.com

1.3.1.8. Manufacturer:

BHARAT PARENTERALS LTD.

Name : **Bharat Parenterals Ltd.**

Address : 144 & 146, Jarod Samlaya Road,
Vill. Haripura, Ta. Savli,
Dist. Vadodara – 391520, Gujarat
INDIA.

Telephone Number : +91-2667-251669, 251670, 251679, 251680

Fax Number : +91-2667-251679, 251680

E-mail : bplbrd@yahoo.com, info@bplindia.in, bplbrd@bplindia.in.

1.3.1.9. Date of revision of the text:

1.3.1.10. Instructions for Preparation of Radiopharmaceuticals (If Applicable):

Not Applicable