For the use of a Registered Medical Practitioner or a Hospital or a Laboratory or a Specialist only Amoxycillin and Potassium Clavulanate Tablets IP 625 mg Moxyplit CV 625

Composition: Each film coated tablet contains : Amoxycillin Trihydrate IP Eq. to Amoxycillin 500 mg Potassium Clavulanate Diluted IP Eq. to Clavulanic Acid 125 mg Colour : Titanium Dioxide IP

DOSAGE FORM

THERAPEUTIC INDICATION Amoxycillin/Potassium Clavulanate is an antibiotic agent with a notably broad spectrum of activity against the commonly occurring bacterial pathogens in general practice and hospital. The beta-lactamase inhibitory action of clavulanate extends the spectrum of amoxycillin to embrace a wider range of organisms, including many resistant to other beta-lactamanitibiotics. Amoxycillin/Potassium Clavulanate should be used in accordance with local official antibiotic-prescribing guidelines and local susceptibility data. It is indicated for a the tradematent the indicated in the other active a the following actives:

Amoxyclinitr Potassium Carvanatis should be used in accordance with local onicial anabouc-preschoing guidelines and local susceptionity data. It is indicated for short-term treatment of bacterial infections at the following sites: For the treatment of bacterial infections at the following sites: Susceptibility to Amoxyclinitr Datassium Clavulanate will vary with geography and time. Local susceptibility data should be consulted where available, and microbiological sampling and susceptibility testing performed where necessary.

DOSAGE AND ADMINISTRATION

DOSAGE AND ADMINISTRATION
Posology
Dosage depends on the age and renal function of the patient and the severity of the infection.
Treatment should not be extended beyond 14 days without review. Therapy can be started parenterally and continued with an oral preparation.
To mimize potential gastrointestinal intolerance, administer at the start of a meal. The absorption of Amoxycillin/Potassium Clavulanate is optimized when taken at the start of a meal.
Adults and Children over 12 years:
The usual adult dose is one Amoxycillin/Potassium Clavulanate Tablet (625 mg) every 12 hours or as directed by the Physician.
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Mild to Moderate Infections One Amoxycillin/Potassium Clavulanate 625 mg Tablet every 12 hours

Severe Infections	One Amoxycillin/Potassium Clavulanate 625 mg Tablet every 8 hours (thrice a day).

Amoxycillin/Potassium Clavulanate 625 mg Tablet is not recommended in children aged 12 years and belo

Special populations:

Renal impairment: Patients with impaired renal function do not generally require a reduction in dose unless the impairment is severe. Severely impaired patients with a glomerular filtration rate of -30 mL/min, should not receive the 1g tablet.

Mild impairment (Creatinine clearance >30 mL/min)	No change in dosage
Moderate impairment (Creatinine clearance 10-30 mL/min)	One Amoxycillin/Potassium Clavulanate 625 mg Tablet twice a day
Severe impairment (Creatinine clearance <10 mL/min)	Not more than one Amoxycillin/Potassium Clavulanate 625 mg Tablet every 24 hours

Haemodialysis patients should receive an Amoxycillin/Potassium Clavulanate 625 mg Tablet every 24 hours, depending on severity of the infection. They should receive an additional dose both during and at the end of dialysis (as serum concentrations of both amoxycillin and clavulanic acid are decreased). should receive an additional dose boun during and at the end of durings tas service concentrations of board moxyonin and starting and at the end of durings tas service concentrations of board moxyonin and starting and at the end of during and at the end of during tas service concentrations of board moxyonin and starting and at the end of during and at the end of during tas service concentrations of board moxyonin and starting and at the end of during and at the end of during tas service concentrations of board moxyonin and starting and at the end of during and at the end of during tas service concentrations of board moxyonin and starting and at the end of during and at the end of during tas service and the end of the

Method of administration: For oral use only

Amoxycillin/clavulanate potassium may be taken without regard to meals; however, absorption of clavulanate potassium is administered at the start of a meal. To minimize the potential for gastrointestinal intolerance, Amoxycillin/clavulanate potassium si administered at the start of a meal. To minimize the potential for gastrointestinal intolerance, Amoxycillin/clavulanate potassium si administered at the start of a meal. To minimize the potential for gastrointestinal intolerance, Amoxycillin/clavulanate potassium si administered at the start of a meal. To minimize the potential for gastrointestinal intolerance, Amoxycillin/clavulanate potassium should be taken at the start of a meal. Patients should be instructed to consumed or swallow the Amoxycillin/clavulanate potassium Tablets as whole and must not to be chewed or broken.

CONTRAINDICATIONS

It is contraindicated in patients with a history of serious hypersensitivity reactions (e.g., anaphylaxis or Stevens-Johnson syndrome) to Amoxycillin, clavulanate or to other beta-lactam antibacterial drugs (e.g., penicillins and cephalosporins). Amoxycillin/clavulanate potassium Tablet is contraindicated in patients with a previous history of cholestatic jaundice/hepatic dysfunction associated with Amoxycillin/clavulanate potassium.

SPECIAL WARNINGS AND PRECAUTIONS FOR USE

SPECIAL WARNINGS AND PRECAUTIONS FOR USE
Hypersensitivity Reactions
Serious, and occasionally fatal, hypersensitivity (anaphylactic) reactions have been reported in patients receiving beta-lactam antibacterials, including
Amoxycillin/clavulanate potassium. These reactions are more likely to occur in individuals with a history of pericillin hypersensitivity and/or a history of
sensitivity to multiple allergens. Before initiating therapy with Amoxycillin/clavulanate potassium, careful inquiry should be made regarding previous
hypersensitivity reactions to pericillins, cephalosporins, or other allergens. If an allergic reaction occurs, Amoxycillin/clavulanate potassium should be
discontinued and appropriate therapy instituted.
Hepatic Dysfunction, including hepatitis and cholestatic jaundice, has been associated with the use of Amoxycillin/clavulanate potassium. Hepatic toxicity is
usually reversible; however, deaths have been reported. Hepatic function should be monitored at regular intervals in patients with hepatic impairment.
Clostridium difficile associated diarrhoea (CDAD)
Clostridium difficile associated diarrhoea to fatal collis. Treatment with antibacterial agents alters the normal flora of the colon, leading to
overgrowth of C. difficile produces toxins A and B, which contribute to the development of CDAD. Hypertoxin-producing strains of C. difficile cause
increased morbidity and morality, as these infections can be refractory to antimicrobial therapy and may require a colectomy. CDAD must be considered in all
patients who present with diarrhoea following antibacterial use. Careful medical history is necessary since CDAD has been reported to occur over 2 months

Development of Drug-Resistant Bacteria Prescribing Amoxycillin/clavulanate potassium in the absence of a and increases the risk of the development of drug resistant bacteria ce of a proven or strongly suspected bacterial infection is unlikely to provide benefit to the patient,

DRUG INTERACTIONS

Probeneod Probeneod decreases the renal tubular secretion of amoxycillin but does not delay renal excretion of clavulanic acid. Concurrent use with Amoxycillin/clavulanate potassium may result in increased and prolonged blood concentrations of amoxycillin. Co-administration of probeneoid is not

Oral Anticoagulants Abnormal prolonga Charanticoogularities Abnormal prolongation of prothrombin time (increased international normalized ratio) has been reported in patients receiving amoxycillin and oral anticoagulants. Appropriate monitoring should be undertaken when anticoagulants are prescribed concurrently with Amoxycillin/clavulanate potassium. Adjustments in the dose of oral anticoagulants may be necessary to maintain the desired level of anticoagulation.

Adjustments in the dose of oral anticoagulants may be necessary to maintain the desired level of anticoagulauton. <u>Allopurinol</u> The concurrent administration of allopurinol and amoxycillin increases the incidence of rashes in patients receiving both drugs as compared with patients receiving amoxycillin alone. It is not known whether this potentiation of amoxycillin rashes is due to allopurinol or the hyperuricaemia present in these patients. <u>Co-amoxyclav</u> may affect intestinal flora, leading to lower oestrogen reabsorption and reduced efficacy of combined oral oestrogen/progesterone contraceptives. <u>Co-amoxyclav</u> may affect intestinal flora, leading to lower oestrogen reabsorption and reduced efficacy of combined oral oestrogen/progesterone contraceptives. <u>Co-amoxyclav</u> may affect intestinal flora, leading to lower oestrogen reabsorption and reduced efficacy of combined oral oestrogen/progesterone contraceptives. <u>Co-amoxyclav</u> may affect intestinal flora, leading to lower oestrogen reabsorption and reduced efficacy of combined oral oestrogen/progesterone contraceptives. <u>Co-amoxyclav</u> may affect intestinal flora, leading to lower oestrogen reabsorption and reduced efficacy of combined oral oestrogen/progesterone contraceptives. <u>Solution</u>, or Fehling's <u>Solution</u>. Since this effect may also occur with Amoxycillin/clavulanate potassium, it is recommended that glucose tests based on enzymatic glucose oxidase reactions be used. <u>Following administration of amoxycill</u> to pregnant women, a transient decrease in plasma concentration of total conjugated oestriol, oestriol-glucuronide, conjugated oestrone, and oestradiol has been noted.

USE IN SPECIAL POPULATIONS Pregnancy

Pregnancy Teratogenic Effects: Pregnancy Category B

Theradgenic Elitects: pregnancy Category B. Reproduction studies performed in pregnant rats and mice given Amoxycillin/clavulanate potassium (2:1 ratio formulation of Amoxycillin:clavulanate) at oral doses up to 1200 mg/kg/day revealed no evidence of harm to the fetus due to Amoxycillin/clavulanate potassium. The Amoxycillin doses in rats and mice (based on body surface area) were approximately 4 and 2 times the maximum recommended adult human oral dose (876 mg every 12 hours). For clavulanate, these dose multiples were approximately 9 and 4 times the maximum recommended adult human oral dose (125 mg every 8 hours). There are, however, no adequate and well-controlled studies in pregnant women. Because animal reproduction studies are not always predictive of human response, this drug should be used during pregnancy only if clearly needed. Labor and Delivery

Labor and Delivery
Oral ampicillin-class antibiotics are poorly absorbed during labor. It is not known whether use of Amoxycillin/clavulanate potassium in humans during labor or
delivery has immediate or delayed adverse effects on the fetus, prolongs the duration of labor, or increases the likelihood of the necessity for an obstetrical
intervention.
Nursing Mothers
Amoxycillin/clavulanate potassium use by nursing mothers may lead to sensitization of infants.
Caution should be exercised when Amoxycillin/clavulanate potassium is administered to a nursing woman.
Periatric IIse

Pediatric Use

Penatric use The safety and effectiveness of Amoxycillin/clavulanate potassium Powder for Oral Suspension and Chewable Tablets have been established in pediatric patients. Use of Amoxycillin/clavulanate potassium in pediatric patients is supported by evidence from studies of Amoxycillin/clavulanate potassium Tablets in adults with additional data from a study of Amoxycillin/clavulanate potassium Powder for Oral Suspension in pediatric patients aged 2 months to 12 years with acute otitis media. Because of incompletely developed renal function in neonates and young infants, the elimination of Amoxycillin may be delayed; clavulanate elimination is unaltered in this age group. Dosing of Amoxycillin/clavulanate potassium should be modified in pediatric patients aged <12 weeks (<3 months).

Geriatric Use Of the 3,119 patients in an analysis of clinical studies of Amoxycillin/clavulanate potassium, 32% were ≥65 years old, and 14% were ≥75 years old. No overall differences in safety or effectiveness were observed between these subjects and younger subjects, and other reported clinical experience has not identified differences in responses between the elderly and younger patients, but the greater sensitivity of some older individuals cannot be ruled out. This drug is known to be substantially excreted by the kidneys, and the risk of adverse 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.

Dosing in Renal Impairment

Amoxycillin is primarily eliminated by the kidneys and dosage adjustment is usually required in patients with severe renal impairment (GFR <30 mL/min). EFFECTS ON THE ABILITY TO DRIVEAND 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.

UNDESIRABLE EFFECTS

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 Amoxycillin/Clavulanate induced Stevens - Johnson syndrome (SJS)/ toxic epidermal necrolysis (TEN).

 The following are discussed in more detail in other sections of the labeling:

 Anaphylactic reactions (see Warnings and Precautions)

 Hepatic Dysfunction (see Warnings and Precautions)

 CDAD (see Warnings and Precautions).

Clinical Trials Experience

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 most frequently reported adverse reactions were diarrhoeal/loose stools (9%), nausea (3%), skin rashes and urticaria (3%), vomiting (1%) and vaginitis (1%). Less than 3% of patients discontinued therapy because of drug-related adverse reactions. The overall incidence of adverse reactions, and in particular diarrhoea, increased with the higher recommended dose. Other less frequently reported adverse reactions (<1%) include: Abdominal discomfort, flatulence, and headache. In pediatric patients (aged 2 months to 12 years), 1 US/Canadian clinical trial was conducted which compared 45/6.4 mg/kg/day (divided every 12 hours) of Amoxycillin/clavulanate potassium for 10 days versus 40/10 mg/kg/day (divided every 8 hours) of Amoxycillin/clavulanate potassium for 10 days in the treatment of acute otitis media. A total of 575 patients were enrolled, and only the suspension formulations were used in this trial. Overall, the adverse reactions seen were comparable to that noted above; however, there were differences in the rates of diarrhoea, skin rashes/urticaria, and diaper area rashes.

seen were comparable to that noted above; however, there were differences in the rates of diarrhoea, skin rashes/urticaria, and diaper area rashes.
Postmarketing Experience
In addition to adverse reactions reported from clinical trials, the following have been identified during postmarketing use of Amoxycillin/clavulanate potassium.
Because they are reported voluntarily from a population of unknown size, estimates of frequency cannot be made. These events have been chosen for
inclusion due to a combination of their seriousness, frequency of reporting, or potential causal connection to Amoxycillin/clavulanate potassium.
Gastrointes/Indl. Indigestion, gastrifies, stomatitis, glossitis, black 'hairy' tongue, mucocutaneous candidiasis, enterocolitis, and
haemorrhagic/pseudomembranous colitis. Onset of pseudomembranous colitis symptoms may occur during or after antibiotic treatment.
Hypersensitivit/Reactions?. Purtus, angioedema, serum sickness-like reactions (urticaria or skin rash accompanied by arthritis, arthralja, myalgia, and
frequently fever), erythema multiforme, Stevens-Johnson syndrome, acute generalized exanthematous pustulosis, hypersensitivity vasculitis, and cases of
ki/ver?.Hepatic dysfunction, including hepatitis and cholestatic jaundice, increases in serum transaminases (AST and/or ALT), serum bilirubin, and/or alkaline
hosphatase, has been reported with Annoxycillin/clavulanate potassium. It has been reported more commonly in the elderly, in males, or in patients on
prolonged treatment. The histologic findings on liver biopsy have consisted of predominantly cholestatic, hepatocellular, or mixed cholestatic hepatocellular, *etylagenessitue*, 1992

reported. <u>Miscelaneous</u>, Tooth discolouration (brown, yellow, or grey staining) has been reported. Most reports occurred in paediatric patients. Discolouration was reduced or eliminated with brushing or dental cleaning in most cases.

OVERDOSE

OVERDOSE In case of overdosage, discontinue medication, treat symptomatically, and institute supportive measures as required. A prospective study of 51 paediatric patients at a poison-control centre suggested that overdosages of less than 250 mg/kg of amoxycillin are not associated with significant clinical symptoms. Interstitial nephritis resulting in oliguric renal failure, has also been reported in patients after overdosage with amoxycillin/clavulanate potassium. Crystalluria, in some cases leading to renal failure, has also been reported after amoxycillin/clavulanate potassium overdosage in adult and paediatric patients. In case of overdosage, adequate fluid intake and diuresis should be maintained to reduce the risk of amoxycillin/clavulanate potassium crystalluria. Renal impairment appears to be reversible with cessation of drug administration. High blood levels may occur more readily in patients with impaired renal function because of decreased renal clearance of amoxycillin/clavulanate potassium may be removed from circulation by haemodialysis.

PHARMACOLOGICAL PROPERTIES Mechanism of Action

Mechanism of Action Amoxycillin is a semisynthetic antibiotic with a broad spectrum of antibacterial activity against many gram-positive and gram-negative micro-organisms. Amoxycillin is, however, susceptible to degradation by beta-lactamases and therefore the spectrum of activity of amoxycillin alone does not include organisms which produce these enzymes. Clavulanic acid is a beta-lactam, structurally related to the penicillins, which possesses the ability to inactivate a wide range of beta-lactamase enzymes commonly found in micro-organisms resistant to penicillins and cephalosporins. In particular, it has good activity against the clinically important plasmid mediated beta-lactamases frequently responsible for transferred drug resistance. It is generally less effective against chromosomally-mediated type 1 beta-lactamases.

lactamases. The presence of clavulanic acid in amoxycillin-clavulanate formulations protects amoxycillin from degradation by beta-lactamase enzymes and effecti extends the antibacterial spectrum of amoxycillin to include many bacteria normally resistant to amoxycillin and other penicillins and cephalosporins. T amoxycillin-clavulanate possesses the distinctive properties of a broad spectrum antibiotic and a beta-lactamase inhibitor.

Pharmacodynamic Properties Amoxycillin is a semisynthetic antibiotic with in vitro bactericidal activity against Gram-positive and gram-negative bacteria. Amoxycillin is, however, susceptible to degradation by beta-lactamases and, therefore, the spectrum of activity does not include organisms that produce these enzymes. Clavulanic acid is a beta-lactam structurally related to the penicillins, which possesses the ability to inactivate some beta-lactamase enzymes. Clavulanic microorganisms resistant to penicillins and cephalosporins. In particular, it has good activity against the clinically important plasmid mediated beta-lactamases frequently responsible for transferred drug resistance. Amoxycillin/clavulanic acid has been shown to be active against most isolates of the following bacteria, both in vitro and in clinical infections: Carm positive Bartaria

Gram-positive Bacteria Staphylococcus aureus

Gram-negative Bacteria Enterobacter species Escherichia coli Haemophilus influenzae Klebsiella species Moraxella catarrhalis

Medsenia species Moraxellia catarrhalias The following in vitro data are available, but their clinical significance is unknown. At least 90% of the following bacteria exhibit an in vitro minimum inhibitory concentration (MIC) less than or equal to the susceptible breakpoint for amoxycillin/clavulanic acid. However, the efficacy of amoxycillin/clavulanic acid in treating clinical infections due to these bacteria has not been established in adequate and well-controlled clinical trials:

Gram-positive Bacteria Enterococcus faecalis Staphylococcus epidermidis Staphylococcus saprophyticus Streptococcus preumoniae Streptococcus preumoniae Streptococcus progenes Viridans group Streptococcus Gram-negative Bacteria Eikenella corrodens

Eikenella corrodens Proteus mirabilis Anaerobic Bacteria Anaerotic Bacteria Bacteroides species, including Bacteroides fragilis Fusobacterium species Peptostreptococcus species

Pharmacokinetic properties Mean Amoxycillin and clavulanate potassium pharmacokinetic parameters in normal adults following administration of Amoxycillin/clavulanate potassium Tables are shown in below Table-1. Table-1: Mean (±S.D.) Amoxycillin and Clavulanate Potassium Pharmacokinetic Parameters¹⁰ with Amoxycillin/clavulanate potassium Tablets

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Dose and Regimen	Cmax (mcg/mL)		AUC0-24 (mcg*h/mL)	
Amoxycillin/Clavulanate Potassium	Amoxycillin	Clavulanate Potassium	Amoxycillin	Clavulanate Potassium
250/125 mg every 8 hours	3.3 ± 1.12	1.5 ± 0.70	26.7 ± 4.56	12.6 ± 3.25
500/125 mg every 12 hours	6.5 ± 1.41	1.8 ± 0.61	33.4 ± 6.76	8.6 ± 1.95
500/125 mg every 8 hours	7.2 ± 2.26	2.4 ± 0.83	53.4 ± 8.87	15.7 ± 3.86

* Mean (± standard deviation) values of 14 normal adults (N=15 for clavulanate potassium in the low-dose regimens). Peak concentrations occurred

* Mean (± standard deviation) values of 14 normal adults (N=15 for clavulanate potassium in the low-dose regimens). Peak concentrations occurred approximately 1.5 hours after the dose.
*Amoxycillin/clavulanate potassium administered at the start of a light meal.
Amoxycillin serum concentrations achieved with Amoxycillin/clavulanate potassium are similar to those produced by the oral administration of equivalent doses of Amoxycillin has been shown to be similar after corresponding every 12 hour and every 8 hour dosing regimens of Amoxycillin/clavulanate potassium in adults and children.

every 12 hour and every 8 hour dosing regimens of Amoxycillin/clavulanate potassium in adults and children. <u>Absorption</u> Dosing in the fasted or fed state has minimal effect on the pharmacokinetics of Amoxycillin/Nile Amoxycillin/clavulanate potassium can be given without regard to meals, absorption of clavulanate potassium when taken with food is greater relative to the fasted state. In one study, the relative bioavailability of clavulanate was reduced when Amoxycillin/clavulanate potassium was dosed at 30 and 150 minutes after the start of a high-fat breakfast. Distribution

Distribution Neither component in Amoxycillin/clavulanate potassium is highly protein-bound; clavulanic acid is approximately 25% bound to human serum and Amoxycillin approximately 18% bound. Amoxycillin diffuses readily into most body tissues and fluids with the exception of the brain and spinal fluid. Metabolism and Excretion The half-life of Amoxycillin after the oral administration of Amoxycillin/clavulanate potassium is 1.3 hours and that of clavulanic acid is 1 hour. Approximately 50% to 70% of the Amoxycillin and approximately 25% to 40% of the clavulanic acid are excreted unchanged in urine during the first 6 hours after administration of a single 250-mg or 500-mg tablet of Amoxycillin/clavulanate potassium.

INCOMPATIBILITIES

PACKAGING INFORMATION 10X10 Tablets

STORAGE INSTRUCTIONS

Store protected from moisture, at a temperature not exceeding 25°C

Keep all medicines out of reach of children

Manufactured by : Malik Lifesciences Pvt. Ltd. (& subsidiary of Akums Druzs & Pharmaceuticals Ltd.) Plot No. 16, Vardhman IndL. Estate, VIII- Bahadarpur Saini, N.H. 58, Haridwar-247 667, (Uttarakhand)

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