ENHANCIN TABLETS

(Amoxicillin and Clavulanate Potass

COMPOSITION

EMHANCIN 375 mg Tablets
Each film-coated tablet contains
Amoxicillin USP equivalent to anhydrous Amoxicillin
Clavulanate Potassium equivalent to Clavulanic Acid ENHANCIN 625 mg Tablets
Each film-coated tablet contains
Amoxicillin USP equivalent to anhydrous Amoxicillin
Clavulanate Potassium equivalent to Clavulanic Acid

ENHANCIN 1 g Tablets
Each film-coated tablet contains
Amoxicillin USP equivalent to anhydrous Amoxicillin
Clavulanate Potassium equivalent to Clavulanic Acid

DESCRIPTION

ENHANCIN is an oral antibacterial combination consist ENHANCIN is an oral antibacterial combination consisting of the semisynthetic antibiotic amosticilis and the beta-factamase inhibitor potassium chavulanate providing a broad spectrum of antibacterial activity against beta-factamase produciby bacteria. Amoxicilinis chemically designated as (6RP) 6-abito-0-(4Hydroxyphenyl)-glycystumio penicilianic acid trihydrate. Its empirical formula is C₁₈H₁₁N₁O₅S.3H₂O.1st molecular weight is 419.2.
Potassium clavulanate is chemically designated as Potassium(Z)-(2R,SR)-3-(-Hydroxyethylidens)- 7 xox-4-ox-1 zazabicyclo (3.2.0) heptane-2-carboxylate. Its empirical formula is C₂H₈NO₅X and its molecular weight is 237.3.

PHARMACOLOGY1.2.3.4

IARMACOLOGY1.2.3.

Mechanism of Action

Monoxicillin acts through inhibition of biosynthesis of the bacterial cell wall

mucopepilde. It is bacteridada against many Gram-positive and Gram-negative

organisms. However, being susceptible to degradation by b-lactamases, its

spectrum does not include b- lactamase producing bacteria. Clarulania caid

inhibits a wide range of bacterial b-lactamases and protects amoxicillin from

degradation by b-lactamase enzymes and effectively extends the antibacterial

spectrum of Amoxicilin to include many b-lactamase producing strains of bacteria.

Antibacterial Spectrum

The following pathogens have been found to be susceptible to Amoxicillin and

Cavalanate polassium combination:

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Cara-pasitive

Serga, progenes, Steps, wiridans, Shaphylococcus surrus*, coagulase negative

staphylococci*, (including Staph, epidermidis*), Corynebacterium spp., Siculus

antifracis, Listeria monocytogenes.

Amaerobaes: Clastridium spp., Peptococcus spp., Peptostreptococcus spp.

Cara-negative

Cara-negative

The microbiae of production of the product

staphysococci grasualing seaph spaces and searches process anthracis, Listeria monocytopenes.

Anaerobez: Clostridium spp. "Peptococcus spp. Peptostreptococcus spp. Gram-negative Aerobez: Clostridium spp. "Peptococcus spp. Anaerobez: Clostridium spp. "A ponorthosea" A. M. meningitidis, "Vibrio cholerae, "Patewissis, Brucella spp. A. ponorthosea" A. M. meningitidis, "Vibrio cholerae, "Patewissis and post spp. A. ponorthosea" A. M. meningitidis, "Vibrio cholerae, "Patewissis and post spp. A. ponorthosea" A. M. meningitidis, "Vibrio cholerae, "Patewissis producing strains

- including beta-lactamas producing strains

- Pharmacokinesis:

Amoxicillin and Clavulanate potassium are both well absorbed after orial administration at the start of a meal improves the absorption of Amoxicillin and this combination product may be given without regard to meal; However, administration at the start of a meal improves the absorption of Clavulanate and minimises the potential for gastrointestinal intolerance. The orab lovavialishing of Amoxicillin and Clavulanate potassium is approximately 90% and 75% respectively.

Clavulanate potassium has about the same plasma elimination half-life (thr) as that of amoxicillin and Clavulanic acid are widely distributed to most tissues and blow fluids including pertioneal fluid, bister fluid, urine, pleural fluid, niddle ear fluid, intestinal mucosa, bene, galibladder, lung, female reproductive the sissues and blow and cardia or sone and are secreted into breast milk in low concentrations.

Amoxicillin and Clavulanic and Clavulanic and responsable placenta and are secreted into breast milk in low concentrations.

Amoxicillin and Est han 50% of dose of Clavulanic and are secreted unchanged in decreasing constituted primarily unchanged through the rear fluid internal moule (glemerular filtination and fluidularia expensability of Amoxicillin and 25-40% of Clavul

Dose" and regimen Amoxicillin/ Clavulanate potassium (±SD)	AUC _{s-24 (} m _{g-b/est)}		C _{mex} (M _{b/ml)}	
	Amaxicitin (±SD)	Clavulanate potassium (±SD)	Arnoxicillin (±SD)	Clavulanate potassium (±SD)
250/125 mg q 8h	26.7 ± 4.56	12.5 ± 3.25	3.3 ± 1.12	1.5 ± 0.70
500/125 mg q 12h	33.4 ± 5.76	8.6 ± 1.95	6.5 ± 1.41	1.8 ± 0.61
500/125 mg q 8h	53.4 ± 8.87	15.7 ± 3.86	7.2 ± 2.26	2.4 ± 0.83
875/125 mg g 12h	53.5 ± 12.31	10.2 ± 3.04	11.6 ± 2.78	2.2 ± 0.99

Mean values of 14 normal volunteers (n=15 for Clavulanate potassium in the low-ose regimens). Peak concentrations occurred approximately 1.5 hours after the

dose.
** Administered at the start of a light meal

INDICATIONS^{3,4}
ENHANCIN tablets are indicated for the treatment of following infections caused by ENHANCIN tablets are indicated for the treatment of following microons caused by susceptible pathopens:

1 Upper respiratory tract infections(including otorhinolaryngeal) e.g. sinusitis, outis media, tonsilitis

1 Lower respiratory tract infections (e.g. lobar and bronchopneumonia, acute and chronic bronchitis)

3 Genito-unitary tract infections (e.g. cystitis, urethritis, pyelonephritis)

3N Skin and soft tissue infections (e.g. double, abscesses, ceiluitis, wound infections)

3D Dental infections (e.g. denta-veolar abscesses)

30 Other infections (e.g. septic abortion, puerperal sepsis, intra-abdominal sepsis)

DOSAGE & ADMINISTRATION^{3,4} Adults

offs
The usual adult dose is 1 ENHANCIN 625 mg tablet every 12 hrs or 1 ENHANCIN
375 mg tablet every 8 hrs.
For more severe infections and infections of the respiratory tract, the dose 375 mg tablet every 8 hrs.

For more severe infections and infections of the respiratory tract, the dose should be TEMHANCIN 1 g tablet every 12 hrs or 1 EMHANCIN 625 mg tablet every 8 hrs.

Should be I EMPLANUM 1 of babel every 12 nts of 1 EMPLANUM 6.25 mg tabel every 8 hrs.

Dosage in dental infections

Adults and children over 12 years: One EMHANCIN 375 mg tablet three times a day for five days.

Other infections (e.g. septic abortion, puerperal sepsis, intra-abdominal sepsis)

The usual dose for adults and children over 12 years is one EMHANCIN 375 mg tablet three times a day, in severe infections one EMHANCIN 625 mg tablet three times a day is recommended. Therapy can be started parenterally and continued with an oral preparation.

Dosage in Renal Impairment

Patients with majorated renal function do not generally require a reduction in dose unless the impairment is severe. Severely impaired patients with glomerular filtration rate of 3 ml minutes bould not receive EMHANCIN (a) table. Patients with a glomerular filtration rate of 10-30 m/minute should receive EMHANCIN (a) to the infection.

Patients with a less than 10 m/minute glomerular filtration rate should receive EMHANCIN (a) to the infection.

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of the infection.

Haemodish's is patients should receive ENHANCIN 625 mg or ENHANCIN 375 mg every 24 hrs. depending on the severity of the infection. They should receive an additional dose both during and at the end of dialysis.

Dosaye in heastic impairment

Dose with caution; monitor heatic function at regular intervals.

Paediatric patients

Paediatric patients weighing 40 kg or more should be dosed according to adult recommendation.

Oral administration
Tablets should be swallowed whole without chewing. If required, tablets may be broken in half and swallowed without chewing.
To minimise potential gastrointestinal incluerance, administer at the start of a meal. The absorption of Amoscialin and Clavulgrate potassium combination is optimised when taken at the start of a meal.
Treatment should not be extended beyond 14 days without review.

PRECAUTIONS2.3.4

ECAUTIONS: 1-8
General
Amoxicillia and Cisyulanate potassium combination should be used with caution
in patients with evidence of severe hepatic dysfunction change in liver function
tests have been observed in some patients receiving this combination.
Erythematous rashes have been associated with glandular lever in patients

receiving Amoucillin.
The possibility of superinfections with mycotic or bacterial pathogens should be kept in mind during therapy. If superinfections occur (usually involving Pseudomonas or Candida), the drug should be discontinued and appropriate therapy instituted.

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Herapy instituted.

Serious and occasionally fatal hypersensitivity (anaphylactici) reactions have been reported in patients on Flactam therapy. Atthough anaphylaxis is more frequent following parenteral therapy, it has occurred in patients on oral penicilities. These reactions are more likely to occur in individuals with a history of peniciliin hypersensitivity and/or a history of sensitivity to multiple allergens; careful inquire solud be made concerning previous hypersensitivity reactions to penicilifins, cephalosporins, or other allergens. If an allergic reaction occurs, the Amoxicilin and Clavulanted postssium combination should be discontinued and the appropriate therapy instituted. Serious anaphylactic reactions require immediate emergency treatment with epinephrine. Oxygen, intravenous steroids and airway management, including intubation, should also be administered as indicated. Pseudomembranuos collitis has been reported with nearly all antibactical agents, including Amoxicilin and Clavulante potassium combination and has ranged in severily from mild to life threatment, Therefore, it is important to consider this diagnosis in patients who present with diarrhoea subsequent to the administration of antibacterial agents.

Contraindications.

Penicillin hypersensitivity.

Attention should be paid to possible cross-sensitivity with other beta-lactam

Penicillin hypersensithity.

Attention should be paid to possible cross-sensitivity with other beta-lactam antibiotics, e.g. cephalosporins.

A history of Annoxicillin and Clavulanate potassium combination, or pénicillin associated jaundice/hepatic dysfunction.

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Carcinogenicity

Long-term carcinogenicity studies in animals have not been performed with Annoxicillin and Clavulanate potassium combination.

Mutagenicity

The mutagenic potential of Amoxicillin and Clavulanate potassium combination was investigated in vitro with an Ames test, a human hymphocyte cytogenetic assays, a yeast sets and a mouse bymphoma forward mutation assay, and in vivo with mouse micronucleus tests and a dominant lethal test. All were negative apart from the in vitro mouse hymphoma assay where weak activity was found at very high, cytotoxic concentrations.

Perganacy and Lactation

Reproduction studies in animals (mice and rats) with orally and parentrally administered Auroinal Cavulanate potassium combination in human pregnancy. As with all medicines, use should be avoided in pregnancy, especially during the first trimester, unless considered essential by the physician.

Amoxicillin and Clavulanate potassium combination may be administered during the period of lactation. With the exception of the risk of sensitisation, associated with the excretion of trace quantities in brasst milk, there are no known detrimental effects for the breast-fed infant.

Paediatrics

Paediatrics patients weighing 40 kg or more should be dosed according to adult

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effects for the breast-led infant.

Paediatric Paediatric superior seed of the process of the pr

affected. Adverse Effects
Side effects with Amoxicillin and Clavulanate potassium combination are uncommon and mainly of a mild and transitory fature.
Reported side effects include diarrhoea, indigestion, nausea, vomiting and mucocutaneous candidiasis.

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Occasionally moderate and asymptomatic rises in AST and/or ALT and alkaline phosphatases; and rarely hepatitis and cholestatic jaundice have been reported to occur. Signs and symptoms may occur during treatment but are more frequently reported affer cessation of therapy with a delay of upto 65 weeks. Urticaria and erythematous rashes have been reported occasionally. Erythema multiforme, Estevens-Johnson syndrome, toxic epidermal necrolysis, builous axfoliative dermatitis, serum sickness like syndrome, hypersensitivity vasculitis, intersitati nephritis, peadomembranous coilis, proficingation of bleeding time and prothrombin time have been reported to occur rarely. In common with other beta-lactam antibiotics, angiededem and anaphylaxis, transient leucopenia, thrombocytopenia and haemolytic anaemia have been reported rarely. Side effects involving the CNS which include reversible hyperactivity, dizziness, headache and convulsions may occur very rarely.

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OVERDOSAGE.*

Overdosage with Amoxicillin and Clavulanate potassium combination is unlikely to cocur. Gastrointestinal symptoms and disturbance of the fluid and electrolyte balances may be evident. They may be treated symptomatically with attention to the water electrolyte balance.

Amoxicillin and Clavulanate combination may be removed from the circulation by haemodialysis STORAGE

Store below 25°C, protected from moisture.
KEEP ALL MEDICINES OUT OF THE REACH OF CHILDREN
"THIS DRUG IS REGISTERED IN LIST 1"

2301-2330.
Physicians' Desk Reference 2001; 55th Ed.: 3068-71.
ABPI Compendium of Data Sheets and Summaries of Product Characteristics 1999-2000: 1587-83.

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