when it counts

CHLOROMYCETIN® Kapseals® (CHLORAMPHENICOL CAPSULES)

PARKE-DAVIS

WARNING

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Serious and fatal blood dyscrasias (aplastic anemia, hypoplastic anemia, thrombocytopenia, and granulocytopenia) are known to occur after the administration of chloramphenicol. In addition, there have been reports of aplastic anemia attributed to chloramphenicol which later terminated in leukemia. Blood dyscrasias have occurred after both short term and prolonged therapy with this drug. Chloramphenicol must not be used when less potentially dangerous agents will be effective, as described in the "Indications" section. It must not be used in the treatment of trivial infections or where it is not indicated, as in colds, influenza, infections of the throat; or as a prophylactic agent to prevent bacterial infections.

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Precautions: It is essential that adequate blood studies be made during treatment with the drug. While blood studies may detect early peripheral blood changes, such as leukopenia, reticulocytopenia, or granulocytopenia, before they become irreversible, such studies cannot be relied on to detect bone marrow depression prior to development of aplastic anemia. To facilitate appropriate studies and observation during therapy, it is desirable that patients be hospitalized.

DESCRIPTION

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Chloramphenicol is an antibiotic that is clinically useful for, and should be reserved for, serious infections caused by organisms susceptible to its antimicrobial effects when less potentially hazardous therapeutic agents are ineffective or contraindicated. Sensitivity testing is essential to determine its indicated use, but may be performed concurrently with therapy initiated on clinical impression that one of the indicated conditions exists (see "Indications" section).

ACTIONS AND PHARMACOLOGY

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In vitro chloramphenicol exerts mainly a bacteriostatic effect on a wide
range of gram-negative and gram-positive bacteria and is active in
vitro against rickettsias, the lymphogranuloma-psittacosis group and
Vibrio cholerae. It is particularly active against Salmonalla syphi and
Hemophilus influenzae. The mode of action is through interference
or inhibition of protein synthesis in intact cells and in cell-free systems.
Chloramphenical administract orally is absorbed excitation than Hemophilus influenzae. The mode of action is through interference or inhibition of protein synthesis in intact cells and in cell-free systems. Chloramphenicol administered orally is absorbed rapidly from the intestinal tract. In controlled studies in adult volunteers using the recommended dosage of 50 mg/kg/dgx, dosage of 1gm every 6 hours for 8 doses was given. Using the microbiological assay method, the average peak serum level was 112 mg/ml. one hour after the first dose. A cumulative effect gave a peak rise to 18.4 mgg/ml. after the fifth dose of 1gm. Mean serum levels ranged from 8-14 mgg/ml. one hour of the studies ranged from a low of 65% to a high of 99% over a three-day period. From 8 to 12% of the antibiotic exerced is in the form of free chloramphenicol; the remainder consists of microbiologically inactive metabolities, principally the conjugate with glucuronic acid. Since the glucuronide is exercted rapidly, most chloramphenicol detected in the blood is in the microbiologically active free form. Despite the small proportion of unchanged drug excreted in the urine, the concentration of free chloramphenicol seriatively high, amounting to several hundred mgc/ml. in patients receiving divided doses of 50 mg/kg/day. Small amounts of active drug are found in bile and feese. Chloramphenicol diffuses rapidly, but its distribution is not uniform. Highest concentrations are found in brain and cerebrospinal fluid. Chloramphenicol direst erebrospinal fluid even in the absence of meningeal inflammation, appearing in concentrations about half of those found in the blood. Measurable levels are also detected in pleural and in ascitcie fluids, saliva, milk and in the aqueous and vitreous humors. Transport across the placental barrier occurs with somewhat lower concentration in cord blood of newborn infants than in maternal blood.

INDICATIONS

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IN ACCORD WITH THE CONCEPTS IN THE "WARNING BOX" AND THIS INDICATIONS SECTION, CHLORAMPHENICOL MUST BE USED ONLY IN THOSE SERIOUS INFECTIONS FOR WHICH LESS POTENTIALLY DANGEROUS DRUGS ARE INEFFECTIVE OR CONTRAINDICATED.

HOWEVER, CHLORAMPHENICOL MAY BE CHOSEN TO INITIATE ANTIBIOTIC THERAPY ON THE CLINICAL IMPRESSION THAT ONE OF THE CONDITIONS BELOW IS BELIEVED TO BE PRESENT; IN VITRO SENSITIVITY TESTS SHOULD BE PERFORMED CONCURRENTLY SO THAT THE DRUG MAY BE DISCONTINUED AS SOON AS POSSIBLE IF LESS POTENTIALLY DANGEROUS AGENTS ARE INDICATED BY SUCH TESTS. THE DECISION TO CONTINUE USE OF CHLORAMPHENICOL RATHER THAN ANOTHER ANTIBIOTIC WHEN BOTH ARE SUGGESTED BY IN VITRO STUDIES TO BE EFFECTIVE AGAINST A SPECIFIC PATHOGEN HOULD BE BASED UPON SEVERITY OF THE INFECTION, SUSCEPTIBILITY OF THE PATHOGEN TO THE VARIOUS ANTIMICROBIAL DRUGS, EFFICACY OF THE VARIOUS DRUGS IN THE INFECTION, AND THE IMPORTANT ADDITIONAL CONCEPTS CONTAINED IN THE "WARNING BOX" ABOVE:

Acute infections caused by susceptible strains of almonella typhi

Salmonella typhi
Chloramphenicol is a drug of choice.* It is not recommended for the routine treatment of the typhoid "carrier state."

*In the treatment of typhoid fever some authorities recommend that chlor-amphenicol be administered at therapeutic levels for 8-10 days after the patient has become afebrile to lessen the possibility of relapse.

2. Serious infections caused by susceptible strains in accordance with the concepts expressed above: a. Salmonella species b. H. influenzae, specifically meningeal infections

- c. Rickettsia
- c. Rickettsia
 d. Lymphogranuloma-psittacosis group
 e. Various gram-negative bacteria causing bacteremia, meningitis
 or other serious gram-negative infections
 f. Other susceptible organisms which have been demonstrated to be
 resistant to all other appropriate anti-microbial agents.

3. Cystic fibrosis regimen

CONTRAINDICATIONS

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Chloramphenicol is contraindicated in individuals with a history of previous hypersensitivity and/or toxic reaction to it. It must not be used in the treatment of trivial infections or where it is not indicated, as in colds, influenza, infections of the throat; or as a prophylactic agent to prevent bacterial infections.

PRECAUTIONS

1. Baseline blood studies should be followed by periodic blood studies approximately every two days during therapy. The drug should be discontinued upon appearance of reticulocytopenia, leukopenia, thrombocytopenia, anemia, or any other blood study findings attributable to chloramphenicol. However, it should be noted that such studies do not exclude the possible later appearance of the irreversible type of bone marrow depression.

2. Repeated courses of the drug should be avoided if at all possible. Treatments should not be continued longer than required to produce a cure with little or no risk of relapse of the disease.

3. Concurrent therapy with other drugs that may cause bone marrow depression should be avoided.

4. Excessive blood levels may result from administration of the recommended dose to patients with impaired liver or kidney function, including that due to immature metabolic processes in the infant. The dosage should be adjusted accordingly or, preferably, the blood concentration should be determined at appropriate intervals.

5. There are no studies to establish the safety of this drug in pregnancy.

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6. Since chloramphenicol readily crosses the placental barrier, caution in use of the drug is particularly important during pregnancy at term or during labor because of potential toxic effects on the fetus (gray syndrome).

7. Precaution should be used in therapy of premature and full-term infants to avoid "gray syndrome" toxicity, (See "Adverse Reactions.") Serum drug levels should be carefully followed during therapy of the newborn infant.

8. Precaution should be used in therapy during lactation because of the possibility of toxic effects on the nursing infant.

9. The use of this antibiotic, as with other antibiotics, may result in an overgrowth of nonsusceptible organisms, including fungi. If infections caused by nonsusceptible organisms appear during therapy, appropriate measures should be taken.