PACKAGE INSERT FOR CHLORAMPHENICOL

WARNING

WARNING
Scrious and fotal blood dyscrasias (aplestic anemia, hypoplastic anemia, hypoplastic anemia, thrombocytopenia, and granucytopenia) are known to occur after the administration of chloram-phenicol. In addition, there have been reports of eplastic anemia aftributed to chloramphenical which later terminated in leukemia. Blood dyscrasias have occurred after both short term and prolenged therapy with this drug. Chloramphenical must not be used when less potentially dangerous agents will be effective, as described in the "Indications" section. If must not be used in the treatment of trivial infections or where it is not indicated, as in colds, influenta, infections of the throat; or as a prophylactic agent to prevent bacterial infections.

infections. 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, or granulocytopenia, or granulocytopenia, before they become irreversible, such studies cannot be relied on to detect bone marrow depression prior to development of aplastic enemia. To facilitate apprepriate studies and observation during therapy, it is desirable that patients be hospitalized.

DESCRIPTION: 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: In

tons section).

ACTIONS AND PHARMACOLOCY: In vitro chloramphenicol exerts mainly a bacteriostatic effect on a wide range of gram-negative and gram-positive bacteria and its active in vitro against ricketsias, the lymphogramolom-positia-cosis group and Vibrio cholerac. It is particularly active against Salmonella typhi and Hemophilius influenzac. The typhi and Hemophilius influenzac the typhi and Hemophilius influenzac the cells and in cell-free systems. Chlosand-nenicol administered orally is absorbed hemical administered orally in controlled studies in adult volunteers using the recommended desage of 50 mg./kg./day, a dosage of 1 gm. every 6 hours for 8 doses was given. Using the microbiological assay mellod, the average peak serum level was 11.2 mg./ml. one hour after the first dose. A cumulative effect gave a reak fixe to 18.4 mgs./ml. after the fixed or 1 gm. Mean serum levels ranged from 8.14 mgs./ml. over the 48-hour period. Total urinary exerction

of chloramphenical in these studies ranged from a low of 68 percent to a high of 99 percent over a three-day period. From 8 to 12 percent of the antibiotic exercted is in the form of free chloramphenical; the remainder consists of microbiologically inactive metabolites, principally the conjugate with glucuronic acid. Since the glucuronide is exercted rapidly, most chloramphenical detected in the blood is in the microbiologically active free form. Despite the small proportion of unchanged drug exercted in the urine, the concentration of free chloramphenical is relatively high, amounting to several hundred meg./ml. in patients receiving 'divided disease of 50 mg./kg./day. Small amounts of active drug are found in bile and ferces. Chloramphenical diffuses rapidly, but its distribution is not uniform. Highest concentrations are found in liver and kidney, and lowest concentrations are found in brain and ecrebrospinal fluid. Chloramphenical enters ecrobrospinal 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 ascite funds, 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: IN ACCORD WITH THE CONCEPTS IN THE "WARNING INDICATIONS: 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
FOTENTIALLY 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 VIRAO SENSITIVITY TESTS
SHOULD BE PERFORMED CONCURRENTLY SO THAT THE DRUG MAY
BE DISCONTINUED AS SOON AS
POSSIBLE IF LESS POTENTIALLY
DANGEROUS ACENTS ARE INDICATED BY SUCH TESTS: THE
DECISION TO CONTINUE USE
OF CHLORAMPHENICOL RATHER
THAN ANOTHER ANTIBIOTIC
WHEN BOTH ARE SUCGESTED BY
IN VITRO SENDING
WHEN BOTH ARE SUCGESTED BY
IN VITRO SENDING
SEVERITY OF THE INPECTION,
SUSCEPTIBILITY OF THE PATHOCEN TO THE VARIOUS ANTIMICROBIAL DRUGS, EFFICACY OF THE
VARIOUS DRUGS IN THE INPECTION,
SUSCEPTIBILITY OF THE PATHOCEN TO THE VARIOUS ANTIMICROBIAL DRUGS, EFFICACY OF THE
VARIOUS DRUGS IN THE INPECTION,
SUSCEPTIBILITY OF THE PATHOCEN TO THE VARIOUS ANTIMICROBIAL DRUGS, EFFICACY OF THE
VARIOUS DRUGS IN THE INPECTION,
AND THE INPORTANT ADDITIONAL CONCEPTS CONTAINED IN
THE "WARNING BOX" ABOVE:

1. ACUTE INFECTIONS CAUSED BY
SUSCEPTIBLE STRAINS OF SAL-

ACUTE INFECTIONS CAUSED BY SUSCEPTIBLE STRAINS OF SAL-MONELLA TYPIII 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 chlorampheni-col be administered at therapeutic levels for 8-10 days after the patient has become afabrile to lessen the possibility of relapse.

SERIOUS INFECTIONS CAUSED BY SUSCEPTIBLE STRAINS IN ACCORDANCE WITH THE CON-CEPTS EXPRESSED ABOVE:

- Salmonella species
 II. influenzae, specifically meningeal infections
 Rickettsia
 Lymphogranuloma-psittacosis
- group Various gram-negative bacteria causing bacteremia, meningilis, or other serious gram-negative infections e.
- infections
 Other susceptible organisms which have been demonstrated to be resistant to all other appropriate anti-microbial agents.

3. CYSTIC FIRROSIS REGIMENS

CONTRAINDICATIONS: Chloramphenical is contraindicated in individuals with a history or 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:

- Baseline blood studies should be followed by periodic blood studies approximately every two days during therapy. The drug should be discontinued upon appearance of reticubocytopenia, naemia, or any other blood study indings 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.
- Repeated courses of the drug should be avoided if at all possible. Treat-ment should not be continued longer than required to produce a cure with little or no risk of relapse of the disease.
- Concurrent therapy with other drugs that may cause bone marrow depression should be avoided.
- sion should be avoided.

 Excessive blood levels may result from administration of the recommended dose to patients with 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. appropriate intervals.

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

Precaution should be used in therapy of premature and full-term infants to avoid "gray syndrome" toxicity. (See "Adverse Reactions") Scrum drug levels should be carefully fol-lowed during therapy of the new-born infant.