- Precaution should be used in therapy during lactation because of the pos-sibility of toxic effects on the nursing infant.
- infant.

 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.

ADVERSE REACTIONS:

1. Blood Dyscrasias

DVERSE REACTIONS:

Blood Dyscrasias

The most serious adverse effect of chloramphenicol is bone marrow depression. Serious and fatal blood dyscrasias (aplastic anemia, hypoplastic anemia, thrombocytopenia) are known to occur after the administration of chloramphenicol.

An irreversible type of marrow depression leading to aplastic anemia with a high rate of mortality is characterized by the appearance weeks or months after therapy of bone marrow aplasia or hypoplasia. Peripherally, pancytopenia is most often observed, but in a small number of cases only one or two of the three major cell types (erythrocytes, leukocytes, platelets) may be depressed. A reversible type of bone marrow depression, which is dose related, may occur. This type of marrow depression is characterized by vacuolization of the erythroid cells, reduction of reticulocytes and leukopenia, and responds promptly to the withdrawal of chloramphenicol.

An exact determination of the risk of serious and fatal blood dyscrasias is not possible because of lack of serious and fatal blood dyscrasias. In a report to the California State Assembly by the California Medical Assendiby of the proposition of the risk of fatal aplastic anemia was estimated at 1:24,200 to 1:40,500 based on two dosage levels.

There are reports of aplastic anemia terminating in leukemia, attributed to chloramphenicol.

Castrolrestinel Reactions

Nausca, vomiting, glossitis and stomanitical directions and the cast and stomanitic and the cast and the cast

4. Hypersensitivity Reactions

angioedema urticaria and anaphylaxis if other factors in the clinical situation may occur. Herzheimer reactions have occurred during therapy for typhoid fever.

"Gray Syndrome"

"Gray Syndrome"
Toxic reactions including fatalities have occurred in the premature and newborn; the signs and symptoms associated with these reactions have been referred to as the "gray syndrome". One case of "gray syndrome" one case of "gray syndrome" one case of stay syndrome as been reported in an infant bom to a mother having received chloramphenicol during labor. One case has been reported in a 3-month infant. The following summarizes the clinical and laboratory studies that have been made on these patients:

- have been made on these patients:

 (1) In most cases therapy with chloramphenicol had been instituted within the first 48 hours of life.

 (2) Symptoms first appeared after 3 to 4 days of continued treatment with high doses of chloramphenicol.

 (3) The symptoms appeared in the following order:

 (a) abdominal distension with or without emesis;

 (b) progressive pallid cyanosis;
 (c) vasomotor collapse, frequently accompanied by irregular respiration;

 (d) death within a few hours of onset of these symptoms from onset to exitus was accelerated with higher dose schedules.

 (5) Preliminary blood serum level studies revealed unusually high concentrations of chloramphenical (over 80 meg./ml. after repeated doses).

 (6) Termination of therapy upon early evidence of the associated symptomatology frequently reversed the process with complete recovery.
- plete recovery.

DOSAGE AND ADMINISTRATION DOSAGE RECOMMENDATIONS FOR ORAL CHLORAMPHENICOL PREPARATIONS

STATIONS

PREPARATIONS

PREPARATIONS

PREPARATIONS

Set on two dosage levels.

There are reports of aplastic anemia terminating in leukemia, attributed to chloramphenicol. Paroxysmal nocturnal hemoglobinuria has also been reported.

Gastrointestinal Reactions

Nausea, vomiting, glossitis and stomatitis, diarrhea and enterocolitis may occur in low incidence.

Neurotoxic Reactions

Neurotoxic Reactions

Neurotoxic Reactions

Neurotoxic Reactions

Headache, mild depression, mental confusion, and delirium have been described in patients receiving chloramphenicol. Optic and peripheral neuritis have been reported, usually following long-term therapy. If this occurs, the drug should be prescribed at recommended doses known to have therapeutic activity. Close observation of the patient should be maintained and in the event of any adverse reactions, dosage should be on request.)

Fever, macular and vesicular rashes,

if other factors in the clinical situation permit.

Adults—Adults should receive 50 mg./
kg./day (approximately one 250 mg. capsule per each 10 lbs. body weight) in divided doses at 6-hour intervals. In exceptional cases patients with infections due to moderately resistant organisms may require increased dosage up to 100 mg./kg./day to achieve blood levels inhibiting the pathogen, but these high doses should be decreased as soon as possible. Adults with impairment of hepatic or renal function or both may have reduced ability to metabolize and excrete the drug. In instances of impaired metabolic processes, dosages should be adjusted accordingly. (See discussion under "Newborn Infants.") Precise control of concentration of the drug in the blood should be carefully followed in patients with impaired metabolic processes by the available microtechniques (information available on request).

Children—Dosage of 50 mg./kg./day

Children—Dosage of 50 mg./kg./day divided into 4 doses at 0-hour intervals yields blood levels in the range effective against most susceptible organisms. Severe infections (e.g., bacteremia or meningitis), especially when adequate cerebrospinal fluid concentrations are desired, may require dosage up to 100 mg./kg./day; however, it is recommended that dosage be reduced to 50 mg./kg./day as soon as possible. Children with impaired liver or kidney function may retain excessive amounts of the drug.

may recain excessive amounts of the drug.

Newborn Infants—(See section titled "Gray Syndrome" under "Adverse Reactions.") A total of 25 mg./kg./day in 4 equal doses at 6-hour intervals usually produces and maintains concentrations in blood and tissues adequate to control most infections for which the drug is indicated. Increased dosage in these individuals, demanded by severe infections, should be given only to maintain the blood concentration within a therapeutically effective range. After the first two weeks of life, full-tern infants ordinarily may receive up to a total of 50 mg./kg./day equally divided into 4 doses at 6-hour intervals. These dosage recommendations are extremely important because blood concentration in all premature infants and full-tern infants under two weeks of age differs from that of other infants. This difference is due to variations in the maturity of the metabolic functions of the liver and the kidneys.

When these functions are immature, (or seriously impaired in adults), high concentrations of the drug are found which tend to increase with succeeding doses. Infants and Children with Immoture Metabolic Processes—In young infants

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