

COMPOSITION: Lecotrim® Paediatric Tablets

:Each tablet contains: 100mg Sulphamethoxazole BP and 20mg Trimethoprim BP (120mg COTRIMOXAZOLE)

Lecotrim® Tablets

:Each tablet centains: 400mg Sulphamethoxazole BP and 80mg Trimethoprim BP (480mg COTRIMOXAZOLE)

Locotrim® Forte Tablets

:Each tablet contains: 800mg Sulpi BP and 160mg Trimethoprim BP (960mg COTRIMOXAZOLE)

Lecotrim® Paediatric Suspension: Each 5ml contains: 200mg Sulphamethoxazole BP and 40mg Trimethoprim BP (240mg COTRIMOXAZOLE)

Lecotrim<sup>®</sup> Peediatric Tablets: White Flat Faced Bevel Edged scored on one side and plain on the reverse. Lecotrim<sup>®</sup> Peediatric Tablets: White, Circular FFBE tablets embossed "LECOTRIM" on one side and plain on the reverse. Lecotrim<sup>®</sup> Farter Tablets: White objects showed socred on one side and plain on reverse. Lecotrim<sup>®</sup> Paediatric Suspension: Pink; viscous, sweet suspension.

## CLINICAL PARTICULARS:

Therapeutic Indications Lecotiming preparations are indicated for the following infections and where the causative organism is sensitive to active components.

Urinary tract infections such as urethritis, systitis, pyelitis, chronic pyelonephritis, prestatitis and gonococcal

· Acute exacerbations of chronic bronchitis

- Gastrointestinal infections notably travellers' diarrhea caused by enterotoxiganic strains of E.coir, shigenosis
- Pneumonia caused by Pneumocystis carnii.
- Joint and bone infections and septicemias due to organisms resistant to other antibacterial agents.

### DOSAGE AND ADMINISTRATION:

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Usual dosage in adult is 960mg every 12hours which may be increased to 1.44mg every 12 hours in case of severe infections. In treatment courses lasting more than 14 days the dosage is 480mg every 12 hours in prophylaxis of re-current uriany true infections, dosage is 480mg every injult. In the treatment of gonorrhas, 1920mg to be taken every 12 hours for 2 days or 3640mg as a single dose which is repeated after another 6 hours. Usual dosage for children is every 12hours and as follows in accordance with age.

6 weeks to 5 month 2.5ml or one Paediatric tablets 6 months to 5 years 5 ml or two Paediatric tablets 6 to 12 years 10 ml or fuer Paediatric tablets

to the treatment of Pneumoric carrinii infection, the treatment course is 120mg for every kg body weight daily in divided doses for 14 days.

### SIDE-EFFECTS:

nal disturbances, glossifis, rashes, erythema multiforme, epidermal necrolysis, blood dyscrasias, ranous colins, jaundice, aplastic anaemia and hepatic necrosis.

- CONTRA-INDICATIONS:
- Hypersensitivity to the active substances, to sulfonamides or trimethoprim, or to any of the constituent exciplents.
- excipients.

  Marked parenchymal liver disease.

  Severe enal impairment (Creatinine clearance <15 ml/min) unless Trimethoprim and Suiphamethoxazele plasma concentrations can be determined repeatedly.

  Megaloblastic anemia due to folic acid distributory.

  Use in premature infants or neonates during the first 6 weeks of life, as this may increase the risk of

- Use in the last trimester of pregnancy (see Pregnancy and lactation).
   Combination with doletilide (see Interactions).

WARNINGS AND PRECAUTIONS:
Lecotrim\* should be used with caution in patients with a history of altergy or bronchial asthma.

Depending on desage and duration of treatment, there is an increased risk of severe adverse reactions in elderly patients, in patients with completaing conditions such as renal and/or hepatic impairment, and in patients concomitantly receiving other medicinal products.

Featal outcome, though rare, has been reported in connection with adverse reactions such as blood dyscrasias, Stevens-Johnson syndrome, toxic epidermal necrolysis (Lyell's syndrome), drug rash with eosinophilla and systemic symptoms and fulminant liver necrosis.

systemic symptoms and uniminant lawf necrosis.

Other than in exceptional case, Lecutria" should not be given to patients with serious blood dyscrasias. The product has occasionally been administered to patients receiving cytotoxic agents for the treatment of leukamia, without evidence of any adverse effect on the bone marrow or peripheral blood.

Lecetria" should be as short as possible, particularly in elderty patients.

Severe persistent distribute during or after freatment may be indicative of pseudomembranous colitis, which requires immediate treatment, in such cases, Lecetria" should be discontinued, and appropriate diagnostic and therapeutic measures initiated (e.g. oral vancomycin 250 mg four times daily).

Antiperistatilic drugs are contraindicated. If Leotrim" is given over a prolonged period, regular blood counts are required. If a significant reduction in the count of any formed blood element to below normal levels is noted, Lecetrim" should be discontinued.

Detries and renal function should be monitored during long-term treatment, especially in patients with renal impairment. An adequate fluid intake and diuresis should be ensured during treatment in order to prevent

Since Lecotrim<sup>a</sup>, like other antibiotics, can reduce the effect of oral contraceptives, female patients should be divised to take additional contraceptive measures during Lecetrim<sup>a</sup> treatment.

advised to take additional contraceptive measures during Leeetism\* treatment.

Prolonged treatment with Lecotrim\* can lead to overgrowth of non-sensitive organisms and fungi. Appropriate treatment should be initiated immediately in the event of superinfection.

Caution is indicated in patients with porphyria or thyroid dysfunction.

in elderly patients or patients with renal impairment, hematological changes indicative of folic acid deficiency may occur. These can be reversed by folinic acid therapy.

occur. These can be reversed by folinic acid interapy. Caution is indicated in patients with an additional risk factor for folic acid deficiency, e.g. treatment with phenytoin or other folic acid antagonists, malnutrition. Cases of pancytopenia have been reported in patients given the combination of trimethoprim and methorbreat (see interactions). Trimethoprim has been found to have an adverse effect on phenyslasnine metabolism. However, this has no relevance to patients with phenytectonuria who adhers to an appropriate diet. "Slow acetylators" may be at increased risk for idiosyncratic reactions to sulfonamides.

### INTERACTIONS: Pharmacokinetic and Pharmacodynamic interactions

Final mackable et also Final microscopials in the court with concomitant co-trimoxazole therapy, especially in elderly patients. Co-trimoxazole can inhibit the hepatic metabolism of phenytoin A39% increase in phenytoin half-life and a 27% decrease in the metabolic clearance rate of phenytoin have been observed following administration of co-trimoxazole at normal clinical dosages. If the two drugs are given concurrently, the possibility of an undesirably

ncreased Phenytoin effect should be borne in mind. The efficacy of tricyclic antidepressants may be reduced if these are administered concurrently with co-trimoxazole.

administered concurrently with co-trimoxazole. Sulfnoamides, including Sulfamethoxazole, dan displace Methotrexate from plasma protein binding sites and impair the renal transport of Methotrexate, thus increasing free methotrexate concentration and effect. Cq-trimoxazole may influence the required dose of oral antidiabetic agents. Like other antibiotics, Lecotrim can reduce the efficacy of oral contraceptives. Female patients should therefore be advised to take additional contraceptive measures during Lecotrim treatment. Co-administration of Indomethacin and Co-trimoxazole can raise Sulfamethoxazole blood levels.

Observed interactions
An increased incidence of thrombocytopenia with purpura has been observed in elderly patients concurrently receiving cartain distretics, primarily thiszides.

If has been reported that co-frimosacole may prolong prothrombin time in patients receiving the anticoagulant warrain. This interaction should be borns in mind when Leaderine is given to patients already receiving anticoagulants, in such cases, the prothrombin time should se obtained. Reversible destoration of retail function, as detected by raised serum Creations levels, be redetermined. Reversible destoration of retail function, as detected by raised serum Creations levels, be required to the product to be detected by raised serum Creations levels, be required to the product to be detected by raised serum Creations and the product to be detected by the product of the pro

### PREGNANCY AND LACTATION:

Pregnancy should not be used in pregnancy unless it is clearly necessary, since both Trimethoprim and Lasothim's should not be used in pregnancy unless it is clearly necessary, since both Trimethoprim and Sophamethoxarole cross the placental barriet and may thus interfere with tetal folic acid metabolism. In animal Sophamethoxarole cross the placental barriet and major majors typical of folic acid antagonism.

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On the basis of studies in pregnant women, filerature reviews and spontaneous reports of malformations, co-trimoxaziole appears to present no significant risk of teratopenicity in humans. Supplementary folic acid (5 mog

as far as possible during the way unreason, so a same that Lactation.

Both Trimethoprim and Sulphamethoxazole pass into breast milk. Although the amount of drug ingested by a breast-fid infant is extremely small, the benefit to the mother should be carefully weighed against the risk to the infant (ternitorus, hyperesentistivity) (see Contraindications).

Effects on ability to drive and use machine.

Lecotrim<sup>2</sup> has no direct effects on the ability to drive or operate machinery. However, undesirable effects are possible that could impair these abilities, in some cases severely (see Undesirable effects).

\*\*Indexirable affects\*\*

The main undestrable effects are skin reactions and mild gastrointestinal upsets, which occurred in ely 5% of treatment periods.

### OVERDOSAGE

Symptoms
In acute overdosage the following signs and symptoms may occur: nausea, vomiting, headache, vertigo,
dizziness, mental and visual disturbances; crystalluria, hematuria and anortic can occur in severe cases.

In chronic overdosage: bone marrow depression manifested as thrombocytopenia, leukopenia or other blood dyscrasias due to folic acid deficiency

Management
Depending on the signs and symptoms, the following measures should be considered: avoidance of further absorption, acceleration of renal elimination by forced diuresis, hemodalsysis, monitoring of blood count and selectoryless. It als agrificant blood dyscrasia or jaunificance occurs, specific herapy should be instituted for these complications. Calcium folinate, 3–6 mg i.m. for 5–7 days, may be given to counteract the effect of TM on the counteract the selection of the counteract the selection of the counteract the effect of TM on the counteract the selection of the counteract the effect of TM on the counteract the selection of the counteract the selection of the counteract the selection of the counteract the effect of TM on the counteract the effect of TM on the counteract the selection of the counteract the effect of TM on the counteract the counteract the counteract the effect of TM on the counteract the cou

## PHARMACOLOGICAL PROPERTIES:

PHARMACULOBIAL PROFESTIES:

Pharmacedynamic Properties
The ingredients of Co-trimoszole (Lecotrim<sup>®</sup>): Selphamethoxazole and Trimethoprim affect their anti-microbial activity sprengistically by interfering with the synthesis of nucleic acids. They cause blockade thought to be of sequential nature, of the metabolic pathway involving the synthesis of tetrahydrolic acid.

Sulphamethoxazole being similar structurally to p-aminoberazole acid (PABA), blocks the conversion of PABA to the co-varyme dilydrolotic acid which is the reduced form of folic acid. Timethoprim on other hand inhibits dilydrolotic acid to tetrahydrolotic aci

Tetrahydololic acid is necessary for the synthesis of certain aminoacids, purines, thymidine and ultimately DNA

Amminicabella spectrum: Lecetifin "blable are active against a wide range of organisms. Among these are the Gram-positive and Gram-negative bacteria, Actionomyces and Nocardia species, Clampila trachomatis, and some fungi including Pheumocystis carnii, some protocol or which the Plasmodium species and Toxoplasme goodii are included. Among the Gram-negativeorganisms, strains of most Enterbacteriaceae are sensitive and these include E.coli, herizontal size function of the Company of the Company

Among the Gram-positive organisms are Listeria' monocytogenes, Clostridium perfringeni and some of Staphylococci and Streptococcus.

### Pharmacokinetic Properties

Pharmacokinette Properties
Absorption
Lecotrim<sup>®</sup> is absorbed rapidly and almost completely (bioavailability: 80–100 %) in the upper gastrointestinal tract
after oral administration. Following a single dose of 160 mg l'inienthoprim: 400 mg Suffamithoxacole, peak plasma
concentrations or 1.5–3 mg/l for Timethoprim and 49–80 mg if for Suffamethoxacole and hours. If
administration is repeated every 12 hours, the steady-state peak plasma concentrations of Suffamethoxacole and
Timethoprim are generally 50–100% higher than after a single ord dose. When a trimethoprim suspension is taken
on a full stomach, the extent of absorption is less than when taken on an empty stomach, though the rate of
absorption was not affected by a standard meal.

\*\*Statistical Control of the Control of t

absorption was not affected by a standard meat.

Distribution

The volumes of distribution of Trimethoprim and Sulfamethoxazole are approximately 1.2–1.5 J/kg and 0.15–0.36

J/kg, respectively. At the above concentrations 42–64% of Trimethoprim and 66% of Sulfamethoxazole are bound to l/kg, respectively. At the above concentrations 42–64% of Trimethoprim and 66% of Sulfamethoxazole into the tissues is good. Large amounts of Trimethoprim and smaller amounts of Sulfamethoxazole into the tissues is good. Large amounts of Trimethoprim and sulfamethoxazole may be increased in inflamed tissues. Trimethoprim and Sulfamethoxazole have been detected in the fetal placenta, cord blood, amontic fluid and other extraorazole trade to the substances cross the placental barrier. As a rule, fetal Trimethoprim concentrations are similar to those in the maternal occupation, while fetal levels of Sulfamethoxazole are loves. 60% to substances are sovered in breast milk. Concentrations in breast milk are similar to Trimethoprim or lower than Sulfamethoxazole those in the maternal plasma.

Metabolism

With normal renal function, the half-lives of the two components are very similar (mean of 10 hours for Trimethoprim and 11 hours for Sulfamethoxazole. Total clearance levels are around 100 ml/min for Trimethoprim

and 20 m/min for Suffamethoxazole.

The elimination half-life of Trienethoprin in children is approximately half that in adults, while no corresponding significant difference applies to Suffamethoxazole Both substances and their metabolities are eliminated predominantly with the kindreys both by glorentual triatration and by tubulest secretion. The concentrations of Triinethoprim and Suffamethoxazole in the urine are some 100 and 5 times higher, respectively, that corresponding plasma levels. Renal clearance levels are 20-80 minim for trienethoprim and 1–5 milmin for Suffamethoxazole. Both substances are detected to a slight extent in the feaces.

LEGAL CATEGORY: Prescription Only Medicines (POM).

THERAPEUTIC CATEGORY: ATC JO38 (Systemic Chemotherapeutics – Sulfonamide and anti-infective

STORAGE CONDITIONS: Store in a dry place below 30°C. Protect from light. Keep all medicines out of reach of

## SHELF LIFE: As per the product label.

# PRESENTATION:

Cecotrim\* Tablets

Available in blister packs of 10 x 10's and in polythene bags packed in high density plastic containers of 1000's

Lecotrim\* Tablets

Available in blister packs of 10 x 10's and in polythene bags packed in high density plastic containers of 500's and 1000's

: Available in blister packs of 10 x 10's and in polythene bags packed in high density plastic containers of 1000's

Lacotrim® Paediatric Suspension : Available in 50ml and 100ml amber coloured bottles and in plastic containers of 5 litres

## DATE OF LAST REVIEW: August 2017

### LICENSE HOLDER: LABORATORY & ALLIED LTD.

Manufactured by: Plot No. 209/10349, Mombasa Road, P.O. Box 42875, Nairobi, Kenya Laboratory & Allied Ltd.

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