The obvious choice in treating cystitis.....: Mezenol DS the multi-tract approach in U.T.I.

Contributors

CAPS

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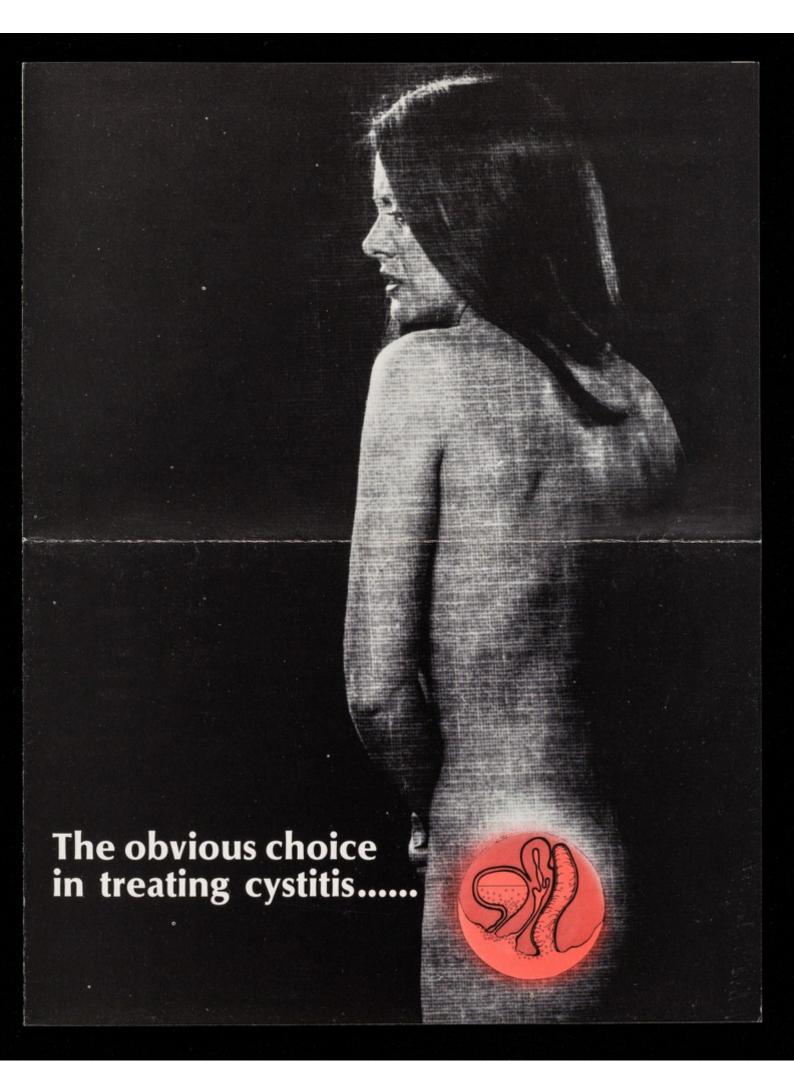
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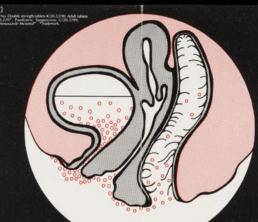


MEZENOL'DS

MEZENOL'DS

MEZENOL* DS

attack against U.T.I. pathogens



MEZENOL*DS

For recurrent urinary tract infection† in adults
"Standby courses of co-trimoxazole should be given
to the patient so that she can start treatment at the onset
of symptoms"."

MEZENOL* DS

toice of Drug co-trimoxazole is suitable cause it is excreted in high concentration in the urine d does not significantly affect the resistance pattern the lower bowel coliform flora..... and because of Good compliance Little bowel flora resistance few side effects

Good prophylactic*

Spectrum of Activity												
Drug	Sulphadmidine	Sulphalurapide	Sulphamethizole	Tetracycline	Nikroburuntnin	MEZENOL*	MEZENOL* DS Co-trimosazole DS	Ampicillin	Amosycillie	Talampiritin	Notice And	Cephalosporis
(Normal renal function)	1g six-hourly	1g six-hourly	200mg six-hourly	250mg six-hourly	100mg eight-hourly	2 Tabs 12 hourly	1 Tab 12 hourly	500mg six-hourly	250mg eight-hourly	250mg eight-hourly	lg six-hourly	500mg six-hourly
f coll	8880	8883	8883	0000							****	8883
Proteus mirabilia		8883	8883	■000	■000		9000		8883	8880	8883	8880
Kl. aerog.	8800		8800	8880	***************************************	8883	0000	B 0000	8000	8000	8883	
Strep. faec.	B 0000	8000	• 0000	8800		8883	8883	****	****		■000	8880
Staph	8883	8883	8883	0000		****	****	8800			8 000	
Ps. pyocyaned	■000	■000	₩000	B CCC	B CCC	8 000	8 000	•000	■000	■000	# 000	
Spectrum of sensitivity/resistance: ##### Usually sensitive ##### Occasional resistance common ##################################												

MEZENOL* DS

MEZENOL'DS (Double strength) tablets containing 160 mg trimethoprim and 800 mg sulphamethoxazole

MEZENOL'

The first double strength co-trimoxazole in Southern & Central Africa

The most economical form of co-trimoxazole-Double in strength, lower in cost.

The most convenient form of co-trimoxazole—simpler dosage one tablet (instead of 2) b.d., encourages greater patient compliance

Further information available on request.

February 1 Wing, Medicine 5.A. 28-31 p.43-30 (1) LCS. Normand & Jean Smelle, Medicine 5.A. 28-31 p.33-36 (1) LCS. Normand & Jean Smelle, Medicine 5.A. 28-31 p.33-36 (1) LCS.

MEZENOL* DS

the multi-tract approach in U.T.I.†

PHARMACOLOGICAL CLASSIFICATION: 20.2

APPROVED NAME: Co-Trimoxazole

mezenol

160 mg trimethoprim and 800 mg sulphamethoxazole per tablet. 80 mg trimethoprim and 400 mg sulphamethoxazole per fablet. 40 mg trimethoprim and 200 mg sulphamethoxazole per 5 ml suspension (preserved with 0,2% m/v methylhydroxybenzoate and 0,02% m/v propylhydroxybenzoate).

DOLOGICAL ACTION:The introduction of brinnethopnim in combination with sulphamethoxazole constitutes an important advance in the development of clinically effective antimicrobial agents and represents the practical application of a theoretical consideration; that is, if two drugs act on sequential steps in the pathway of an obligate enzymatic reaction in bacteria, the result of their combination will be sugnated time. Extensive becomes all studies of the mode of action of this combination of compounds clearly indicated that this is the case. The details of the mechanisms of action of this preparation were defined well before its range of clinical effectiveness was established. There is life doubt that, in this combination of fremethoprim, sulphonarmide will find a broader area of the respective usefulness.

sulphonamide will find a broader area of therapeutic usefulness.

Antibacterial Spectrum - The antibacterial spectrum of brinethoprim is similar to that of sulphamethopacide, although the former drug is usually 20 to 100 times more potent that the latter. The data methousable, although the former drug is usually 20 to 100 times more potent that the latter. The data methousable. All strains of Strep, presumonate, or the combination of brinethoprim and sulphamethopsis. The sulphamethopsis of Steph presumonate, and the sulphamethopsis of Steph presumonate, and sulphamethopsis of Steph presumonate. The sulphamethopsis of Steph presumonates of Steph presumonates of Steph presumonates of Steph presume spectrums. Strep, pyrogenes, the viridants group of streptococi. Strep, faccalis, E. coli. Pr. mirabilis, Pr. morganis, Pr.

example, trace of thyrnidine almost completely aborish the antibuderial activity.
Mechanism of Action — The antimicrobial activity of the combination of timethopinm and sulphamethosazole results from its actions on two steps of the enzymatic pathway for the synthesis of
tetrahydrotoxic acid. Sulphonamide inhibits the incorporation of PABA into folio scill, and timethopini
prevents the reduction of disydrotoxale to tetrahydrotoxic. The latter is the form of foliate essential for one
carbon frankler reactions, for example, the synthesis of thyrnicytate from decoyundystes. Selective loxicit
for microorganisms is achieved in two ways. Marminalian cost sulfice proformed foliates from the det and
do not synthesize the compound. Furthermore, trimethoprim is a highly selective inhibitor of disydrotoxist
reductase of lower organisms. This is vitally important, since this enzymatic function is a rorusal one in all
species. The synthesize indenation between sulphonamides and interthoprim is thus predictable from
their respective mechanisms. There is an optimal ratio of the concentrations of the two agents for
synthesizes, and this is equal to the ratio of the minimal inhibitory concentrations of the drugs acting
independently. The pharmacokenetic properties of the subployamental choice to be in combination with
trimethoprim are thus important, since relative constancy of the concentrations of the two compounds in
the body is desired.

the body is desired.

Bacterial resistance - The frequency of development of bacterial resistance to trimethoprim sulphamethoxazole is lower than it is to either of the agents alone. This is logical sincle a microorganism that has acquired resistance to one of the components may will be killed by the other. Resistance in gram-negative bacteria is associated with presence of R factors, which can be transferred to susceptible microorganisms by conjugation. Resistance in plant content and the presence of the

patients freated with the combination.

Absorption, Distribution and Exerction — After a single oral dose of the combined preparation trimethoprism as absorption reveally than sulphamethoxazole. The coadministration of the drugs appears to allow the absorption of sulphamethoxazole. Peak blood concentrations of trimethoprism issually occur by two hours is most patients, while peak concentrations of sulphamethoxazole are 16 and 10 hours, respectively. When 400 mg of sulphamethoxazole is given with 80 mg of trimethoprism are supplicated and 5.1 railso), three times daily, the mean minimal steady state concentrations of the drugs are approximately 20 and flugir in respectively. The optimal rails to that is sought. Trimethoprism in a rapidly distributed and concentrated in tissues, and relatively small quantities are bound to plasma protein in the presence of sulphamethoxazole. The drug enters the certospinal fluid and signature ready. High concentrations of each component of the mixture are also found in bits. About 55% of sulphamethoxazole is bound to plasma protein I/U pis 60% of administered trimethopinism and from 25% to 50% of sulphamethoxazole are excreted in the unine in 24 hours. Two thirds of the sulphonamide is unconjugated. Metabolities of trimethopinism are also excreted. The raises of excretion and the unine concentrations of both compounds are significantly reduced in patients with unemus.

ONS

Uninary Tract Infections — The sulphonarmides remain very useful for the management of most patients with uncomplicated infections of the lower uninary tract. The sulphonarmides should be reserved for the management of acute and choronic cystifs, choronic infections of the upper uninary tract and asymptomatic bacilities. Since acute cystifs is most often caused by E. Coli or Pr. imrabilis, the sulphonarmides and asymptomatic highly effective. Experience with the treatment of uncomplicated lower uninary tract infections with trimethoprim sulphamethoxazole is now sufficiently extensive to indicate that it is often highly effective, even when the infecting agent is resistant to the sulphonarmides alone. The preparation has been shown to produce a better therapeutic effect than cose either of its components given separately when the infecting agree of the family Extraductive acuse. It has also been used in the same dose in patients with chronic or recurrent upper and lower uninary tract disease. When Strep faccals is the patients with chronic or recurrent upper and lower uninary tract disease. When Strep faccals is the causality emicorogranism are of the family Extraductive acute in the supplemental causality in existing the supplemental bacilitaria usually responds promptly to treatment with one tablet every six hours for two weeks. United experience with use of this combination in 120 pregnant patients with baciliums revealed no evidence of teratogenicity.

Genital Infections — Trimethoprim sulphamethoxazole is effective in the management of acute gonoco urefirmis in both men and women. It appears to be as effective as a single dose of 4.8 million units of procaine penicillin G plan I g of probenecid. The drugh and no effect in preventing incubating syphilis curing the established disease. Trimethoprim sulphamethoxazole appears to produce a beneficial eff on some but not all instances of acute and chronic prostatis and in prostatic abscess. Both short term therapy and long term therapy have been recommended.

Respiratory Tract Infections – Pulmonary infections of various types have been freated with the combination. The microorganisms involved have been H. Influenzae, and Strép, presumoniae. It has been suggested that trimethopris mulphamethoxacle may be an effective prophylactic lagent in this kind of disease. A tiev cases of fung abscess preumonia, and bronchectasis have been treated successfully. It must be pointed out, however, the experience with therapy of bronchopulmonary infections with this preparation is still too limited to establish the parameters of effectiveness.

preparation is set too timeon or estation the parameters of emocycles.

Miscellaneous infections – Several reports have suppested that trimethoprim sulphamethoxazole may be effective in the therapy of brucellosis even when localised lesions such as arthriss, endocardiss or epiddymo-orchiss are present.

There is some difference of opinion concerning the therapeutic value of trimethoprim sulphamethoxazole in hybriod fever. The experience of Scragg and Rubidge (1971) suggests that, in children, this drug is not as effective as otheramphenicol in adults with this disease, trimethoprim sulphamethoxazole appears to be as effective as childramphenicol when the dose is 2 tablets every 12 hours for 15 feets.

for 15 days.

To days.

To combination has been used in the treatment of cholera: it appears to be an effective alternative to set acycline. Although attempts have been made to treat subscule bacterial endocarditis with trimethoptim sulphamethoxazole, this is not advisable in cases due to the viridans group of streptococi. Other streptococi or Staph aversus, since experience is much too limited as yet and highly effective agents for the therapy of this disease are available. However, there is some evidence that valivular infection due to Plead, dispacing may respond favourably, especially when polymynin is given simultaneously. Trimethoprim sulphamethoxazole appears to be effective in the management of carriers of S. high and other species of Safronella. It has been suggested that the presence of chronic disease of the gallbladder is associated with a high incidence of failure to clear the carrier state.

The use of co-trimoxazole is contra-indicated in persons with jaundice and in persons who have thown hypersensitivity to sulphamonides. It is also generally considered to be contra-indicated in patients with impaired renal or liver function. The effect of sulphonamoses may be enhanced by displacement from plasma binding sites by more highly bound acidic substances. Co-trimoxazole thould not be given to infants with all least two weeks of birth and to prognant women especially in sarry pregnancy and prior to within all least two weeks of birth and to prognant women especially in sarry pregnancy and prior to within all least two weeks of birth.

and DIRECTIONS for USE:

MEZENOL is administered orally in the morning and evening, after meals.

1. Adults and children over 12 years: 1.0.5: tablet twice daily or 1 to 3 ordinary tablets, twice daily.

2. Children: Average dosage is 6 mg trimethoprim and 30 mg sulphamethoxazole per kg bodymass daily.

DSAGES:

6 weeks to 5 months: 2.5 ml paediatric suspension twice delily.

6 months to 5 years. 5 ml paediatric suspension twice delily.

6 to 12 years. 10 ml paediatric suspension twice delily.

6 to 12 years. 10 ml paediatric suspension twice delily.

When treating acute infections the duration of treatment should be at least five days or until symptoms there disappressed for at least the degree.

SIDE EFFECTS and SPECIAL PRECAUTIONS:

There is no evidence that trimethoprim sulphamethoxazole, when given in the recommended doses, induces folded deficiency in normal persons. However, the margin between toxicity for bacteria and that for man may be relatively narrow when the cells of the patient are deficient in folds. In such cases, trimethoprim sulphamethoxazole may cause or precipitate megalobations, leukoperia or thrombocytopenia. In noutine use, the combination appears to exert little toxicity. About 75% of the side effects involve the skin. These are typical of those known to be produced by sulphonamides, as almostly described. Estoliative dermatitis Stevens – Johnson syndrome, and toxic epidermal necrolysis (fyell's syndrome) are rare, occurring primarily in older individuals. Sim reactions have developed in from 16 to 8% of individuals in different series of patients. Nasses and vomiting constitute the bulk of gastroinestenial reactions; darmhoe is rare. Glosotis and stomatics are relatively common. Mild and transient jaundice has been noted and appears to have the histological features of allergic cholestatic hepatitis. Most gateries who have developed in the subject of the produced by sulphonamides. Hematological reactions, in addition to those mentioned above, are various types of assermis (including agilastic, hemolytic and macrosytic), coagulation disorders, granulocytopenia, agranulocytopenia, previous or simultaneous administration of diuretics with trimethoprim sulphamethoxazole is a relatively commonation with focc potential equal at least to that of the sulphonamide. Furthermore, the cest of a therapeutic course of this combination is considerably more than that of sulphamemore, the cost of a therapeutic course of this combination is considerably more than that of sulphamemore, the cost of a therapeutic course of this combination is considerably more than that of sulphamemore.

CONDITIONS OF REGISTRATION OF THE MEDICINE:

PRESENTATION:

STORAGE CONDITIONS

Further information is available on request.

