URINARY TRACT INFECTION

Dr. V. L. Gurubacharya Dr. B. R. Prashai

Urinary tract infection may present in as a problem for treatment. Especially when the organision have developed antifictic resistance. As in any other bacteriological desease one has to know exactly if the organisms causing the urinary tract infection is sensitive to the particular antibiotic witch the patient is getting. Thus one has to do the sensitivity test.

Here urine culture and sensitivity test done in H. M. G. Public Health Laboratory during the period 1, 1, 025, to 14,5,025 has been analysed. In total 73 tests were performed. All these samples were from different sources although the majority were from Bir Hospital.

Method:-Sterile test tubes were supplied to patient to collect the urine in sterile condition as for as posssible. But this could not be done in patient who come from outside. In the cases patient were advised to boil the bottle first and then allow it to dry. After that urine was collected in dry bottle. This could have been the cause of some mixed infection and contamination.

Urine was cultured directly. It was plated into nutrient agar, blood agar and Macconkey media. The plates were examined after 24 hours and pure culture were then plated directly for sensitivity. The sterile plates were then incubated for another 24 hours. No anaerobic culture was done. So a few cases might have been missed. As far as possible, different tests were performed to indentify the individual culture. From the cases analysed, there is no difference in incidence of infection between male and female. As the number of cases were only 73 this might not have given us the true picture.

Only pure growth was taken into account and all mixed growth and contamination were neglected. Because the mixed growth and contamination

could have been due to contamination from skin during collections and some change during culture in Laboratory.

Organism from the cases analysed, E. Coli, is the most common organism then comes proteus and Staphylococcus, Coagulase Positive? The species identification of Proteus was not done. In cases canalysed Pseudomonas was isolated from none of the specimen.

Antibiotic Sensitivity:— In the chart the name of antibiotics a d their sensitivity pattern has been given. Furandantin was found to be the most effective and useful for E. Coli, and Proteus.

As regards the Coagulase Positive Staphylococus, Penicillin siil seems to be a useful drug, and sulpha was effective in none of the sensitivity test.

It must also be emphasized that there are some other organism causing urinary tract infection. These organism have not been included in this series of 73 cases.

In one case Acid-fast bacilli was isolated in centrifuge deposition of a female patient. Thus in resistent cases, one has to keep in mind the possibility of tuberculosis of urinary tract.

Again quite often during the routine examination of urnine, micro filaria larva are seen and in our short experience, filarial infection of urinary tract is not uncommon

In conclusion my whole aim of analysing was to know the useful antibiotics for different organisiom in our day to day practice.

We are thankful to Dr. L. Poudyal, D. C. P., D. Bact; Superintendent Public Health Laboratory for his guidance and allowing to publish and also to Mr. M. B. Shrestha for his help.

Statistical Summary

- 1. Time 1.1.025-14.5.025
- 2. Total No. 73
- 3. Sex distribution

Male	Female	Children
29.	43,	1.
4. Organisms		
a) E. Coli	b) Proteus	c) Staphyloccus coagulase positive & negative
31.	8,	8.4
d) Gram negative rod. 1	•	
f) Gram positive and ne	gative cocci 1.	
g) Sterile 27		
5. Antibiogram,		
E. Coli	Sensitive.	Resistant.
1. Furadantin.	15.	_5,
2. Streptomycin	21.	8.
3. Tetracyline	3,	. 20.
. Chloroamphenicol	2.	27.
5. Penicillin	1,	2 7 .
Sulfa	⊕	24
Fro pas	Ϋ,	
, Furadantin	3.	Ĩ,
2. Streptomycia	4.	2.
. Teracyline	3.	5
. Chloroamphenicol	₩	4
. Penicillia	4.	4.
Sulfa	. 🏵	8.
Stapl	yloccocus coagulase	positive
. Furadantin	3.	1.
. Streptomycin	4.	
Terracyline	3	2. 5.
Ghloroamphenicol	€	1.
Penicillin	4.	4.
Sulfa	⊕	8,