Aims and Objectives
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It is evident from the available literature that there are a number of studies in a particular field on the role of U. urealyticum and M. hominis in human infections. But a concerted approach that includes the prevalence of these organisms in different clinical conditions, characterization, serology, serotyping and studies with animal models has not yet been fully carried out. Hence the present study has been planned with a broad perspective to encompass these different aspects to note whether it is comparable or different from other workers.

The study has been carried out to fulfil the following aims and objectives.

1. To determine the prevalence of U. urealyticum and M. hominis in different genital infections and in controls.

2. To quantitate U. urealyticum from cases of NGU.

3. To characterize the isolates of U. urealyticum and M. hominis by:
   a. Sensitivity to 1.5 % Digitonin and
   b. Sensitivity to 5 % sodium-polyanethaol-sulfonate.

4. To assess the effect of chemical and physical factors on U. urealyticum and M. hominis by studies with:
   a. Effect of thallim acetate
   b. Effect of Ether
   c. Effect of Temperature.
5. To assess the antibody response to *U. urealyticum* and *M. hominis* by two different serological tests in different clinical conditions and in controls.

   a. Metabolic inhibition test in infections with *U. urealyticum* and *M. hominis*.

   b. IHA test in infections with *U. urealyticum* and *M. hominis*.

6. To determine the predominant serotype of *U. urealyticum* in cases of NGU.

7. To determine the antibiotic sensitivity of *U. urealyticum* and *M. hominis*.

8. To conduct experimental animal studies.

   a. To study the ability of *U. urealyticum* to cause urethritis in an experimental animal Viz., monkeys.

   b. To study the ability of *M. hominis* to cause pelvic inflammatory disease in an experimental model Viz. rats.

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