* P7.02

Microorganisms in Seminal Samples with and without Pyospermia: Relevance for Assisted Reproduction Technologies (ART)

Seneviratne, FIR1: Wijeratue, S1: Kaluarachchi, A1: Fankeshwara, D. Windana Reproductive Health Centre, Sri Lanka

Introduction: Pyospermia is said to indicate male genital infection. Microorganams may colonize the seminal plasma and therefore co-exist with spermatozoa in the lumen or may invade the genital tract wall causing an inflammation. Pyosperma would be more likely in the latter. In our experience inspite of noor ant-biotic treatment seminal microorganisms have seriously affected the growth and survival of embryos at ART. This study aims to determine:

- The prevelance and range of microorganisms in sem hat ramples used in ARI and in the programme for sperm donation.
- 2. The relevance of pus cells in the semen for microbial presence
- 3. The relationship of microorganisms to sperm parameters

microorganism growth in group A (56.4%)

Method: Using WHO criteria seminal samples were analysed from 99 subjects and bacterial culture was performed. The data obtained was analysed.

Results: Pyospermia was absent in 78 subjects (group A) and present in 21 subjects (Group B). Bacterial cultures were positive to a similar extent in both groups at 55.4% (n = 51) and 66.7% in = 14) in group A and B respecter; Shocke organisms were grown in 76% (n = 39) of Group A and 92.3% in = 13) in Group B, while two organisms were found in 24% in = 1.0 and 7.7% in = 13 in Group B. while two organisms were dim far in the subject of the community for a great serious propers. Summers with propers a significantly higher prevelance of terratozoospermia (71.4%) was noted in the culture positive samples of Group B when compared to those with positive

Conclusions: Pus cell counts do not truely represent the presence of microorganisms in senieri samples. Pyosperinia in samples with positive bactera cultures appear to be associated with greater structural damage to sperimatorial which may therefore be due to inflammation of the gental tract rather their colonization. The presence of microorganisms in the seminal fluid irrespective of the status of pyosperima is a potential source of infection doong ART.