IDENTIFICATION AND ANTIBIOTIC SUSCEPTIBILITY PATTERN OF BACTERIA ISOLATED FROM MEDIA USED IN IUI AND IVF/ICSI (ART) FROM DAY ZERO TO DAY FIVE

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ABSTRACT:

The present study was carried out to isolate, identify and to find out the Antibiotic Sensitivity Pattern of Microorganisms by which we can improve the fertilization rate as well as pregnancy rates. The study was carried out in the ART laboratory for a period of 2 months (1st April 2018 - 31ST May 2018) to identify various Microorganisms (bacteria) grown in the samples and in media used in the Embryology Laboratory. Bacterial growth in the media is occurs only due to improper storage/handling (whenever used during the specific type of procedure).The main source of infection is not only the environment in which work is done, patient's body fluids (follicular aspirates, semen, vaginal and cervical regions also contain microbes that may cause infection.

Total 246 samples were observed/examined. Out of 246 samples, total (40, 16.26%) samples were found as positive (bacterial growth) and (206, 83.73%) Negative or with no growth afer 24 hours of incubation in bacteriological incubator. Total 5 bacterial genus were identified (02, 40%) gram positive and (03, 60%) gram negative bacteria. In gram positive bacteria *Lactobacillus spp.* (09, 22.50%) and *staph. aureus* (08, 20.00%) and gram negative bacteria *E. coli* (09, 22.50%), *Klebsiella spp.* (08, 20.00%), *Pseudomonas spp.* (06, 15.00%) were identified. Different types of antibiotics were used to find out the antibiotic susceptibility pattern.

KEYWORDS: Pathogens, Microorganisms, media Antibiotics ART, Embryology Laboratory.