**“Study of sources of Coagulase Negative Staphylococci infection from NICU environment.”**

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**Abstract:**

**Introduction:** In recent years Coagulase negative staphylococci infections has emerged as a pathogen in growing number of serious

nosocomial infections1. The shift in NICU bed utilization toward occupancy by babies who have the highest overall risk of developing

nosocomial bloodstream infections is seen.With this consideration in mind the present study was planned to study different sources of

Coagulase Negative Staphylococci infection from NICU environment.

**Materials & Methods:** The present study was conducted in neonatal intensive care unit (NICU) of a tertiary care hospital over a period

of one year. A Total of 972 neonates both preterm and fullterm, who were clinically suspected of having sepsis were included in the

study. Blood, Pus, CSF and Urine specimen were collected. These samples were processed by standard bacteriological techniques. 269

samples from NICU environment were also collected during same time and period.

**Observations & Results:** In our study shows that, majority of 100 CoNS were isolated from blood 58, followed by exudates 28 [Umbilical swab 9, Skin infection 10, Catheter tip 8, Conjunctival swab 1], CSF12 and urine 02. There was seen correlation between onset of septicemia with early onset < 48 hrs case were 36 while with late onset >48 hrs were 64 cases out of 100.

**Conclusion:** There are few studies showing CoNS isolation rate more than the present study. This may consider as an interim study & hence more studies should occur in India & with more appropriate statistical analysis.

**Keywords:** Coagulase Negative Staphylococci , Neonatal intensive care unit

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