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## Survival rates and prevalence of morbidities in very low birth neonates admitted in a limited resources setting level II Special Newborn Care Unit, Nalgonda

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**Objectives:** Primary objectives of the study were to look at survival rates and prevalence of morbidities in VLBW neonates admitted in SNCU.

**Method:** Retrospective study included all VLBW neonates (i.e., birth weight  $\leq 1500$  grams) admitted for various reasons from January 2009 to December 2016. This SNCU is equipped with 20 beds and one bubble CPAP. No facility for ABG, blood culture, ventilator and surfactant. The data regarding variables like mortality, LAMA, referrals to other hospitals and morbidities during hospital stay were collected from electronic data.

**Results:** A total of 511 VLBW neonates were admitted during the study period. Median birth weight and mean gestational age of neonates were 1344 (183) grams and 32.7(1.54) weeks respectively. 50 of 511 VLBW infants had birth or admission weight  $< 1000$  gms. 86 infants (16.8%) died and 15 (2.9%) infants referred to higher centre. Forty (46.5%) neonates succumbed to death within 1 day of life and 31 neonates (36%) between 2 to 7 days of life. Most common morbidity was respiratory distress [439 (85.7%)] and 37 (8.4%) required CPAP. Clinical sepsis occurred in 399 (78%) infants and all infants received antibiotic for 5 days. Jaundice requiring phototherapy were 277 (54.2%) infants, apnoea occurred in 154 (30.1%) neonates.

**Discussion:** In this study, survival to hospital discharge was 80.2%. This is one of the best survivals of VLBW infants reported from an SNCU in India.

**Conclusion:** The survival and morbidity rates reported in the study are comparable to many of the tertiary care hospitals and the results shown here will help in conceptualizing the SNCU care.

### Biography

Yadiah Damera is working as a Consultant Paediatrician at DH, Nalgonda since 23 years and in SNCU from 2008 as Civil Surgeon, HOD; instrumental in establishing 1st SNCU in India, 1st level 2 unit to get accreditation by NNF. He is working to strengthen the FBNC in India to reduce NMR and discharged 8000 babies till date; smallest baby discharged 650 gms, 28 wk GA, 1st of its kind from dist. Hospital. His areas of interest include: Bubble CPAP, KMC, ROP screening, Follow up NICU graduates and Presented research papers on CPAP, KMC and ROP.

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