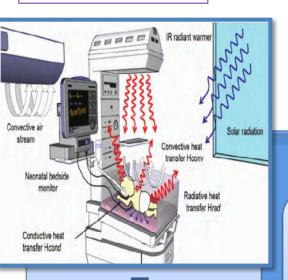
Introduction



Neonatal hypothermia:

Temperature ≤36°C

Measures to prevent hypothermia immediately after birth

Hypothermia is common in infants undergoing intrahospital transport



Increased morbidity & mortality among sick infants in SCBU or NICU

Special Care Baby Unit (SCBU)
Neonatal Intensive Care Unit (NICU)

Objective

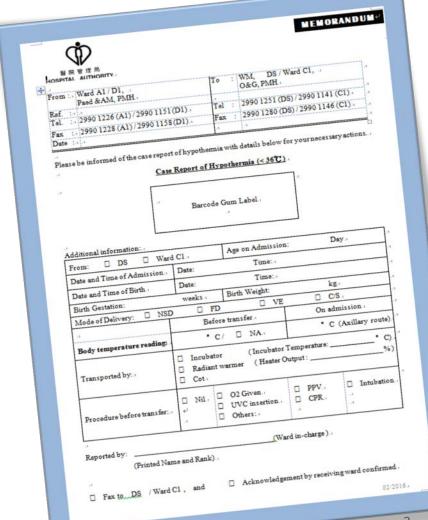
(1) Examine the occurrence of hypothermia among inborn infants at SCBU / NICU admission

Objective

(2) Determine the factors associated with hypothermia following intra-hospital transport

Methodology

- ** A prospective cohort included all inborn infants admitted to SCBU / NICU in a regional hospital from January 2016 to June 2016.
- Design a data collection form for recording relevant information and complete it immediately after admission



Results

Patients' characteristics (N=833)		Count (%) / Mean ± SD
Full-term infants		483 (58%)
Birth weight (BW; kg)		2.57 ± 0.75
Gestation age (week)		36.53 ± 3.40
Body temperature (BT; °C)	Before transfer	36.96 ± 0.61
	On admission	35.39 ± 0.42



- ***30%** of the newborn infants (252 out of 833) transferred from the delivery suite or postnatal ward

 moderate hypothermia on arrival of the SCBU or NICU necessitate active warming
- ***** Wehicle for transport : incubators (95%) and cots
- **Preterm** infants and infants who were born by cesarean delivery more likely to suffer from hypothermia.
- *Significant correlation between BW and BT on admission (r=0.50, p=0.01) suggesting newborn infants with low BW were more vulnerable to hypothermia.

Conclusion

A neutral thermal environment is essential to ensure minimum oxygen consumption and energy expenditure among sick newborn infants.

Measures to avoid hypothermia is essential even during a short-distant transport and regular review to evaluating admission temperature is warranted.

The study units are currently evaluating an evidence-based transport protocol emphasizing on thermal control to decrease the incidence of hypothermia.