

NCCU CLINICAL GUIDELINES
SECTION: 4

THERMOREGULATION

Section 4: Thermoregulation
Preventing heat loss at birth for all gestations
Date created: June 2006
Date Revised: Jan 2014
Review date: Jan 2017

Neonatology Clinical Guidelines
King Edward Memorial/Princess Margaret Hospitals
Perth Western Australia
Authorisation & review by
Neonatal Coordinating Group

PREVENTING HEAT LOSS AT BIRTH (ALL GESTATIONS)

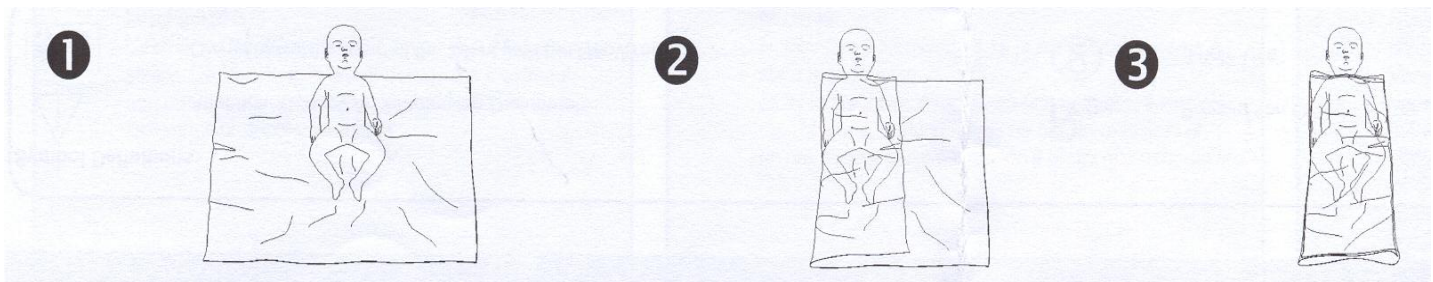
Ensure heater on resuscitaire is turned onto maximum output prior to delivery. If birthing in theatre turn up the air-conditioning to aim for at least 24 degrees.

INFANTS \geq 32 WEEKS \geq 1500 GRAMS

- Dry the infant and remove wet cloths from the baby
- Wrap the infant in warm blankets
- Hat

INFANTS $<$ 32 WEEKS OR EXPECTED TO BE $<$ 1500 GRAMS

- Open the Neowrap™ and lay it down flat on the resuscitaire.
- Lay the wet infant on the Neowrap™
- Immediately wrap the wet infant from the shoulders down in the Neowrap™ under the radiant warmer. A suggested method of wrapping is shown below.
- Dry the exposed head.
- Leave the plastic wrap on and additionally wrap the baby in warm blankets prior to transfer to the nursery



FURTHER READING

Bhatt, D. R., White, R., Martin, G., Van Marter, L. J.; Finan, F.; Goldsmith, J. P.; Ramos, R.; Kukreja, S.; Ramanathan, R. (2007). Transitional hypothermia in preterm newborns. *Journal of Perinatology* (27), S45-S47

Laptook, A. R., Salhab, W., Bhaskar, B. . (2007). Admission temperature of low birth weight infants: predictors and associated morbidities. *Pediatrics*, 119(3), e643 -e649

Lee, H. C., Ho, Q. T., & Rhine, W. D. (2008). A quality improvement project to improve admission temperatures in very low birth weight infants. *Journal of Perinatology*, 28(11), 754-758

Mance, M., Short, M. (2008). Keeping infants warm: Challenges of hypothermia. *Advances in Neonatal Care* 8(1), 6-12.

McCall, E. M., Alderdice, F., Halliday, H.L., Jenkins, J.G., Vohra, S. (2010). Interventions to prevent hypothermia at birth in preterm and/or low birthweight infants (review). *Cochrane Data Base of systematic reviews* (3), 1-53

Meyer, M. P., Bold, G.T., . (2007). Admission temperatures following radiant warmer or incubator transport for preterm infants < 28 weeks: a randomised study. *Archives of Disease In Childhood: fetal and Neonatal* 92(4), F293 - F297.

Smith J., Usher K., Alcock G., Buettner P (2013) Application of plastic Wrap to improve temperatures in Infants Born less Than 30 weeks Gestation: A randomised controlled trial. *Neonatal network* 32 (4)

Soll, R. F. (2008). Heat loss prevention in neonates. *Journal of Perinatology*, 28(S1), S57-S59.

Wallingford et al., (2012) Implementation and evaluation of “golden hour” practices in Infants younger than 33 weeks gestation. *NAINR* 12 (2) 86-96