

NEONATOLOGY
Accessories



neohelp****TM

Neonatal Heat Loss
Prevention Suit



Value Life

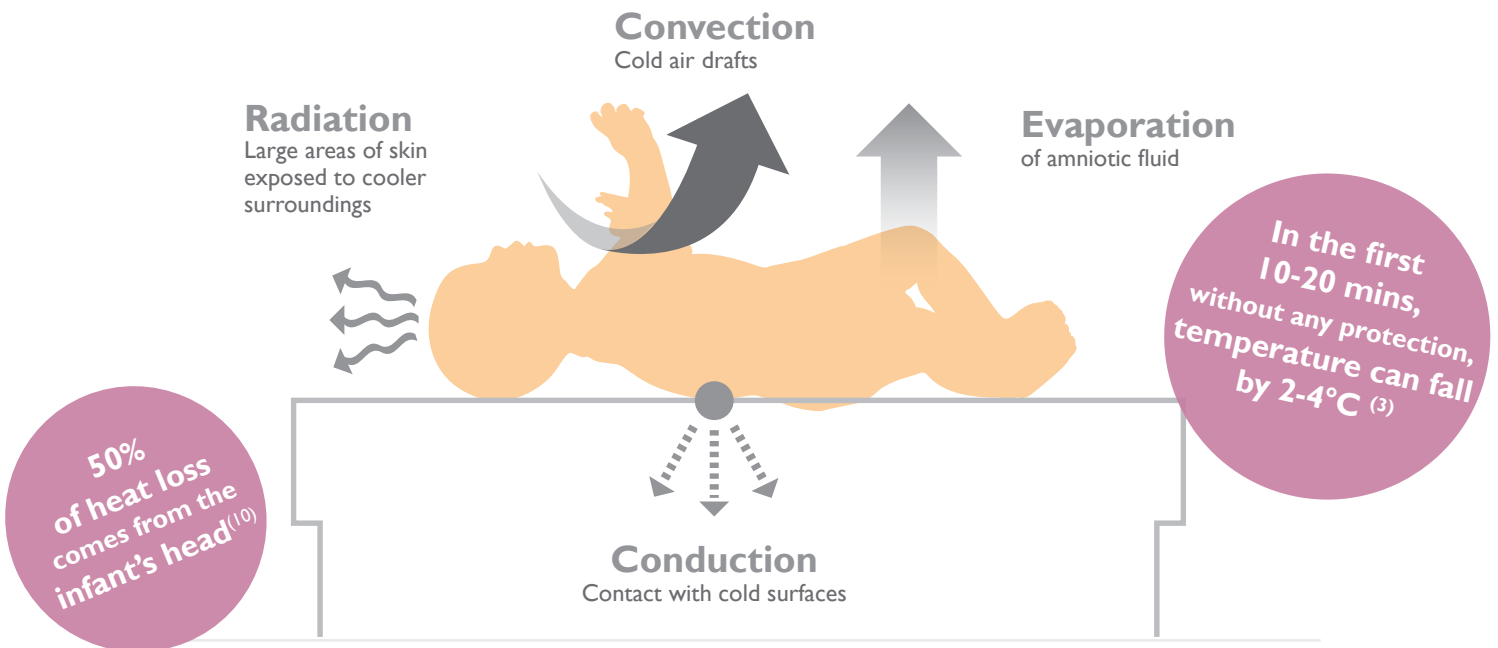
Neonatal hypothermia: a world-wide issue

Hypothermia is an **important factor** in **morbidity** and **mortality** of all birthweights and gestational ages, and **particularly for vulnerable preterm infants** ⁽¹⁾.

Incidence of hypothermia on admission in the NICU from the delivery room is ⁽²⁾:

- $\geq 56\%$ for infants $> 750\text{g}$
- $\geq 25\%$ for infants $\leq 2500\text{g}$

1 Environmental factors



2 Physical characteristics of the infant ^(4,5)

- Unbalanced skin surface to weight ratio
- No or low capacity to generate heat (Brown Adipose Tissue)
- Inadequate stores of subcutaneous (insulating) fat
- Immature epidermal barrier

Consequences of Neonatal Hypothermia ^(1,5)

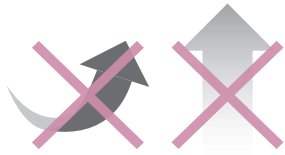
Respiratory distress
Hypoxia
Metabolic Acidosis
Hypoglycemia
Coagulation Defects

Intraventricular Hemorrhage
Brain Damage
Infection / Septicemia
Death

For every 1°C decrease ⁽⁵⁾:
• sepsis increases by 11%
• risk of death increases by 28%

neohelp™, a thermoregulation suit

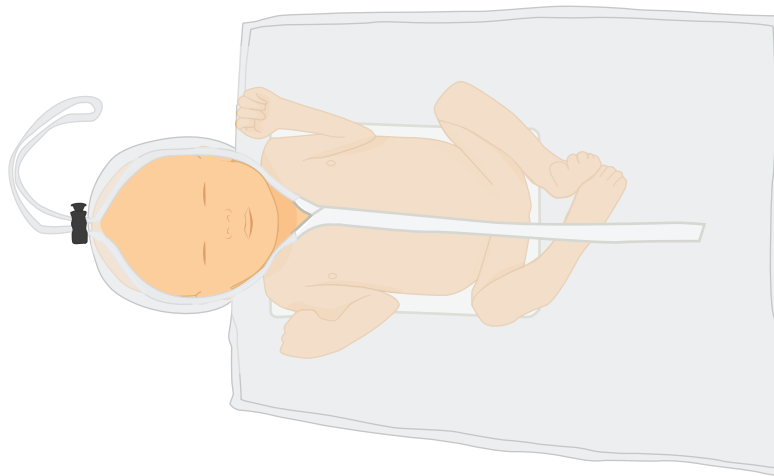
neohelp™ is a sterile suit for the baby immediately after birth (before resuscitation).



Double Layer of Polyethylene
Decreases heat loss by convection and evaporation

- Generates greenhouse effect
- Allows perfect skin contact due to the thin inner layer
- Creates a barrier against drafts
- Allows passage of radiant heat from the warmer (6)
- Transparent for caregivers to observe and manage the infant(5)

According to UNICEF, such interventions can help reduce neonatal mortality or morbidity by 18-42%(6)



Neonatal Resuscitation Guidelines recommend placing premature infants in a polyethylene bag without drying(8)



Integrated Adjustable Hood
Decreases heat loss by radiation

- More efficient than stockinette cap, which allows air passage
- Adjustable to the baby's head



Pre-shaped Foam
Decreases heat loss by conduction

- Helps to maintain an open airway by raising the shoulders level
- Stabilizes the baby's position
- Facilitates carrying of the baby
- Provides comfort to the baby



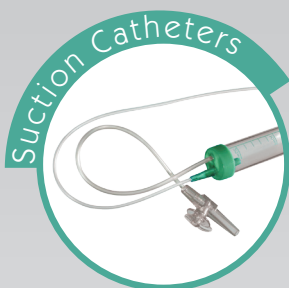
Central Velcro Opening
Ensures heat conservation with hermetic closure

- Easy and quick placement of the baby
- Full access to the baby's body
- Designed for easy placement of monitoring equipment, IV, umbilical catheters and carrying out other Golden Hour care

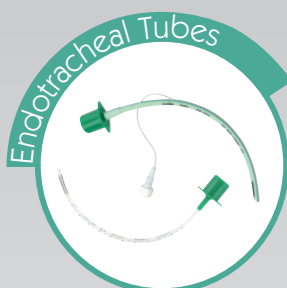
Indications for use & ordering information

Designation	Indication	Code	Quantity
neohelp™ SMALL < 1KG L. 38 x W. 30 cm	NICU / Maternity (Level III)	37.09.14	10/box
neohelp™ MEDIUM 1KG – 2.5KG L. 44 x W. 38 cm	NICU / Maternity (Level I & II)	37.09.15	10/box
neohelp™ LARGE > 2.5KG L. 50 x W. 38 cm	NICU / Maternity (Level I & II) Emergency	37.09.16	10/box

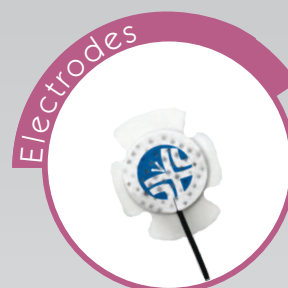
Partner with Vygon for all your Golden Hour needs



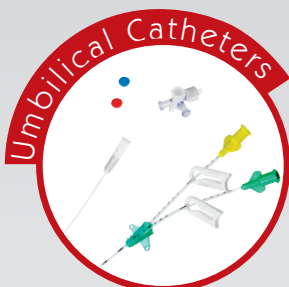
Control suction catheters for tracheal and bronchial suction.



Endotracheal tubes for resuscitation and surfactant delivery.



Electrodes for continuous monitoring of cardiac and respiratory activity.



Single and dual lumen umbilical catheters for arterial and venous access.



Sump tubes for suctioning and gastric decompression of the stomach.



Tray containing the accessories needed to perform removal and replacement of a patient's blood.

References

- 1 The Cochrane Collaboration. Interventions to prevent hypothermia at birth in preterm and/or low birthweight infants (review). 2010.
- 2 DR Bhatt, R.White and al.Transitional hypothermia in preterm newborns. Journal of Perinatology (2007)
- 3 World Health Organization (WHO).Thermal protection of the newborn: a practical guide 1997.
- 4 B. Mathew and al.Vinyl Bags prevent hypothermia at Birth in Preterm Infants. 2006.
- 5 T. Cordaro and al. Hypothermia and occlusive skin wrap in the low birth weight premature infant. NAINR. 2012;12(2):78-85
- 6 W.W.M.V. Mori R. Interventions to prevent hypothermia at birth in preterm and/or low birth weight infant. RHL.
- 7 WHO. Recommendations for management of common childhood conditions. 2012.
- 8 American Academy of Pediatrics. Neonatal Resuscitation: 2010 International Consensus on Cardiopulmonary Resuscitation and Emergency Cardiovascular Care Science with treatment recommendations.
- 9 J.F. Diependaele and A. Fly - Management of a newborn baby - 51st congress of French Society of Anesthesia and Intensive care - 2009
- 10 R. Bissinger and D. Annibale. Thermoregulation in Very Low-Birth-Weight Infants During the Golden Hour Results and Implications. Advances in Neonatal Care (2010)

For further information, please contact: customerservice@vygonusa.com

The specifications shown in this leaflet are for information only and are not, under any circumstances, of a contractual nature.

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