INSPIRATION
HEALTHCARE GROUP

TECOtherm® Wrabbit

Protecting against postnatal heat & humidity loss

Preventing Postnatal Heat Loss

The TECOtherm® Wrabbit plastic wrap is a solution designed to help deliver clinical benefits to the most vulnerable newborns. Research has shown that utilising plastic wraps at the time of delivery effectively maintains higher body temperatures and significantly lowers the risk of hypothermia among newborns[1,2]. The TECOtherm Wrabbit is a non-sterile disposable product to help prevent postnatal heat and water loss in premature and newborn infants.

Wraps are an effective method for providing thermal protection, however, they can go beyond just the initial care after birth. The use of plastic wraps during transport has proven to reduce the incidence of moderate hypothermia, addressing a critical challenge in neonatal care, as noted by Hu et al., 2018. The Wrabbit's single use design offers a straightforward and accessible option for healthcare providers across various settings, eliminating the need for extensive training or resources.

The TECOtherm Wrabbit additionally supports early parent-infant bonding by allowing immediate visual contact and cuddles while maintaining higher body temperatures[1,2], which has been shown to enhance the family's birth experience[4].

It is vital for the health and survival of low birth weight (LBW) babies to maintain their body temperature. There are a variety of clinical studies that provide evidence on the use of plastic bags and/or wraps aiding in thermal care for these LBW babies immediately after birth[1,2].

Clinical Benefits:

Effectiveness in Preventing Hypothermia: Plastic bags are effective in preventing heat loss among very low birth weight and very preterm infants. They have been shown to maintain higher body temperatures compared to traditional incubator care, leading to a reduction in the incidence of hypothermia. This thermal protection is easily achieved by wrapping the infant in a plastic bag immediately after birth[1].

Cost-Effectiveness and Practicality: The use of plastic bags is a low-cost, simple, and highly effective method to provide thermal protection for preterm infants[2].

Effective Beyond Initial Post-birth Care: Placing very low birth weight infants in polyethene plastic bags during transport significantly reduces the occurrence of moderate hypothermia, highlighting the bags' effectiveness beyond the initial post-birth care[4].

Ease of Implementation: The application of the wrap does not require extensive training or resources, making it a practical choice for newborn care across different healthcare settings.

Supports Early Parent-Infant Bonding: Mothers emphasized that physical contact was frequently the sole positive and 'normal' aspect of their birth experience from the moment of delivery. The potential benefits of interventions, such as transparent wraps, which facilitate immediate visual contact and allow for cuddles in the delivery room, support the bonding process between parents and preterm infants[4].

Providing Thermal Protection

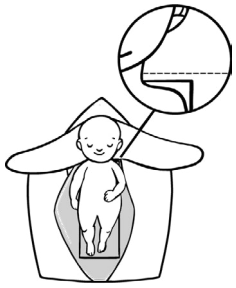
Product size range based on the patient's weight:

S < 1000 g;

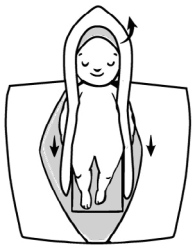
M = 1000 g – 2000 g;

L > 2000 g

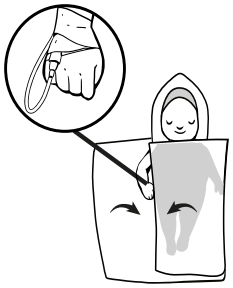
The product is made of PUR film, is latex-free, DEHP-free and BPA-free with a fleece lining.



Step 1:
Lay out the product. Place the newborn on the fleece with their shoulders below the shoulder seam.



Step 2:
Fold the hood over the head and bring the sides down along the face. Take care to leave the neck region free.



Step 3:
Fold the outer sides over one after the other. Swaddle the newborn baby if necessary. Access to the patient is possible at any time without damaging the product. Tubes can be fed out before folding the outer sides over the end of the feet. An intra-venous cannula can be accessed at any time by opening the product on one side, without affecting the patient's thermal insulation.

Interested?

Contact your local Area Sales Manager to arrange a demonstration.

References

1. Mazher, W. (2018). G280(P) Effectiveness of plastic bags versus incubator in preterm and low birth weight neonates. Archives of Disease in Childhood, 103, A114 - A114. https://doi.org/10.1136/archdischild-2018-rcpch.272.

2. Shabeer, M., Abiramalatha, T., Devakirubai, D., Rebekah, G., & Thomas, N. (2018). Standard care with plastic bag or portable thermal nest to prevent hypothermia at birth: a three-armed randomized controlled trial. Journal of Perinatology, 38, 1324-1330. https://doi.org/10.1038/s41372-018-0169-9.

3. Hu, X., Wang, L., Zheng, R., Lv, T., Zhang, Y., Cao, Y., & Huang, G. (2018). Using polyethylene plastic bag to prevent moderate hypothermia during transport in very low birth weight infants: a randomized trial. Journal of Perinatology, 38, 332-336. https://doi.org/10.1038/s41372-017-0028-0.

4. Kimkool, P., Huang, S., Gibbs, D., Banerjee, J., & Deierl, A. (2021). Cuddling very and extremely preterm babies in the delivery room is a positive and normal experience for mothers after the birth. Acta Paediatrica, 111, 952 - 960. https://doi.org/10.1111/apa.16241.

MK-PHL-000046

This document has been produced by Inspiration Healthcare Group.

Manufactured by

Tec Com Medizintechnik

Distributed by

Inspiration HEALTHCARE

Commerce Park,
Commerce Way
Croydon, CR0 4YL
England
T +44 (0)330 175 0000
E info@inspiration-healthcare.com
W inspirationhealthcaregroup.com

THE QUEEN'S AWARDS FOR ENTERPRISE: INTERNATIONAL TRADE 2019