

neoBLUE® blanket LED phototherapy system



Intensive phototherapy that
supports family-centered care
and newborn development

natus®

Meets AAP Guidelines for Intensive Phototherapy¹

- **Intensity:**

Delivers intensive phototherapy: $> 30 \mu\text{W}/\text{cm}^2/\text{nm}$

- **Spectrum:**

neoBLUE LED emits blue light in the 450-475 nm spectrum – matching the peak absorption wavelength (458 nm) at which bilirubin is broken down²

- **Surface Area Coverage:**

Blanket provides phototherapy over a large surface area

Safe

Flexible

Comfortable





Enables family-centered care and newborn development

The next generation neoBLUE blanket turns jaundice management into easy routine care, offering immediate and intensive blue LED phototherapy in a variety of care settings. Treatment can continue while breastfeeding and providing skin-to-skin contact while avoiding disruptions to the continuum of care.



The neoBLUE blanket intensive LED phototherapy system is designed to bring clinicians, caregivers and parents together, providing the ability to give newborns with jaundice the best start in life:

- **Skin-to-skin contact or kangaroo care**, continues during treatment, avoiding disruptions to phototherapy treatment, reducing newborn stress, aiding thermoregulation, assisting neurobehavioral development and promoting mother-child bonding.
- **The neoBLUE blanket avoids subjecting sensitive newborns** to the discomfort and distress of unwrapping and exposure to overhead blue light, helping to support their general well-being and development.
- **Breastfeeding – an AAP best-practice** – and caregiving can continue during phototherapy, helping to promote better development and to avoid the challenges faced with feeding newborns with jaundice.



natus

neoBLUE blanket
LED Phototherapy

Placing families at the center of newborn care

Safe by design

Safety always takes priority in newborn care. The neoBLUE blanket ensures intensive yet safe LED phototherapy by not emitting significant light in the ultraviolet (UV) or infrared (IR) range, hence reducing the potential risk of skin damage and insensible water-loss and shutting off automatically when temperatures are elevated.

Flexible by design

Portable and lightweight, the neoBLUE blanket is ideal in the NICU, well-baby nurseries and the home environment, fitting into existing enclosures such as cribs, bassinets, radiant warmers and incubators. Used either as a stand-alone unit or in conjunction with neoBLUE overhead phototherapy systems, it provides flexibility for high intensity therapy when needed.'

Comfortable by design

The soft neoBLUE blanket pad is anatomical in shape and available in different sizes. With its comfortable mattress and long lightweight cable, it is designed for the newborn to be held during therapy, helping to promote mother-child bonding and overall newborn well-being.

The neoBLUE blanket is part of the neoBLUE LED phototherapy portfolio of Natus jaundice management systems.

Seamlessly integrating into the NICU environment, neoBLUE blanket can be used with a wide range of accessories including neoBLUE blanket swaddles and with a variety of different mounting options.

Mattress Covers



neoBLUE blanket Swaddle*



*HALO® SleepSack™ Swaddle customized for use with the neoBLUE blanket fiberoptic pad.





Enhanced therapy in the NICU

In combination with neoBLUE overhead LED phototherapy, the neoBLUE blanket maximizes surface area coverage to ensure highly effective bilirubin degradation in cases of hyperbilirubinemia.¹ Long lasting narrow band blue LED light ensures intensive and efficacious treatment when it's needed the most.



Unobtrusive in well-baby nurseries

The neoBLUE blanket directs the blue LED light directly onto the newborn's skin, avoiding the light spillage into the environment typical of overhead therapy systems which may disturb other newborns and mothers in the sensitive well-baby nursery or shared environment.



Ideal for home-based phototherapy programs

Simple and safe to use outside the hospital environment, the neoBLUE blanket offers an effective and intensive form of LED phototherapy for community-based phototherapy programs, helping avoid costly hospital readmissions as well as disruptions to the routines of family life.





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References

- 1 Subcommittee on Hyperbilirubinemia. American Academy of Pediatrics clinical practice guideline: Management of hyperbilirubinemia in the newborn infant 35 or more weeks of gestation. *Pediatrics*. 2004; 114(1):297-316.
- 2 Vremen HJ, et al. Light-emitting diodes: a novel light source for phototherapy. *Pediatric Research*. 1998; 44(5):804-809.

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