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1 Vreman HJ, et al. Light-emitting diodes: a novel light source for phototherapy. Pediatric Research. 1998; 44(5):804-809.
2 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.

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natus newborn care

neoBLUE® LED Phototherapy

Optimal blue LED technology for the treatment of newborn jaundice

neoBLUE LED Phototherapy System

- Most effective degradation of bilirubin[1]
- Meets AAP Guidelines for intensive phototherapy[2]
- No light in the UV or IR range

neoBLUE mini LED Phototherapy System

- Provides all the benefits of blue LED technology in a portable and compact size

neoBLUE cozy LED Phototherapy System

- Unique, cradling design facilitates use in multiple configurations and patient care settings

neoBLUE blanket LED Phototherapy System

- Provides intensive phototherapy in a soft and flexible design that allows baby to be swaddled and held during treatment

A family of phototherapy products and solutions

neoBLUE systems utilize blue light emitting diodes (LEDs)

Most effective degradation of bilirubin[1]

All neoBLUE LED Phototherapy Systems meet AAP Guidelines for intensive phototherapy[2]

Intensity

- All neoBLUE systems deliver intensive phototherapy: > 30 µW/cm²/nm

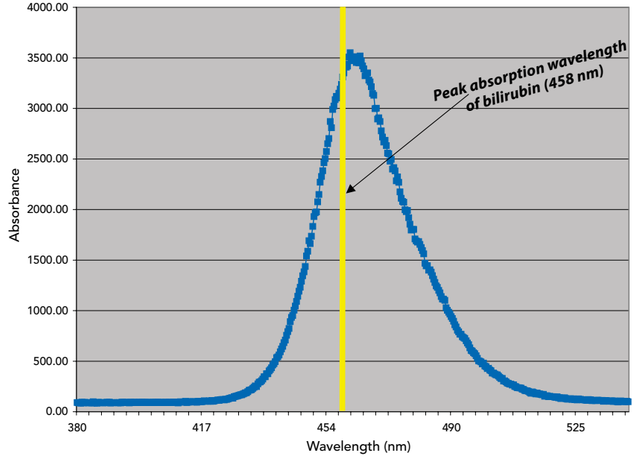
Spectrum

- All neoBLUE systems utilize blue light emitting diodes (LEDs)
- neoBLUE LEDs emit blue light in the 450-470 nm spectrum matching the peak absorption wavelength (458nm) at which bilirubin is broken down[1]

Surface area coverage

- Arrangement of LEDs in neoBLUE systems allows optimal coverage of light over baby

Emission Spectra of Blue LEDs in Relation to Bilirubin Absorption



Safe

- neoBLUE LEDs do not emit light in the ultraviolet (UV) range – reducing the potential risk of skin damage
- neoBLUE LEDs do not emit light in the infrared radiation (IR) range – reducing the potential risk of fluid loss

Optimal efficiency

- neoBLUE LEDs reduce costly and time-consuming bulb replacements by providing thousands of hours of use
- neoBLUE LED panels are field serviceable – no downtime associated with patient care
- Biomedical engineers can adjust the output of the neoBLUE LEDs using a potentiometer on all neoBLUE systems
- Device timers assist in tracking overall usage of the neoBLUE LED panels

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