by anandic

BiliSoft 2.0 Phototherapy System

Intensive therapy, as easy as wrapping a baby in a blanket

gehealthcare.com

Bilisoft™ 2.0, a revolution in blue light phototherapy

The right touch – and blue light – can make all the difference for infants with jaundice. GE's BiliSoft 2.0 Phototherapy System is a revolution in the effective treatment of hyperbilirubinemia.

The benefits of kangaroo care are proven and more hospitals are encouraging and supporting healthy, healing "baby friendly" interactions and practices.

With BiliSoft 2.0, there's no barrier to bonding between infant and parents or caregivers. The baby can be held, fed, even rocked throughout the therapy session.

Patient comfort

Comfort is the keyword, whichever cover options you select. The flat, cushioned BiliSoft 2.0 cover lets you swaddle baby and phototherapy pad together. The BiliSoft 2.0 nest offers sick babies the boundaries and support they need.

If a baby cannot be swaddled, positioning aids may be placed under the pad to bring more light to the sides of a baby's body for greater skin surface area exposure to the light.

Healing light, right where it's needed

BiliSoft 2.0 delivers phototherapy anywhere – in the Neonatal ICU, Pediatrics, Well Baby Nursery or at home. BiliSoft 2.0 can be used with a radiant warmer, incubator, bassinet, crib, or while in a caregiver's arms.

Hospital mounting options

Bed mounted units conserve space in all care areas. Roll stand mounted option provides added flexibility. Either option ensures quick and easy access to the newborn.

Long, lightweight fiberoptic cable and quiet operation make it ideal for in-home application. It's exceptionally easy to set up and use.

BiliSoft 2.0 is an excellent solution for infants in the Neonatal ICU, where fast, effective treatment can be most critical.

Well Baby Nursery and Pediatrics – baby can be covered or wrapped in a blanket during therapy.

Whisper-quiet operation helps you maintain a quiet environment to promote sleep and growth.

A design that promotes bonding and supports developmental care

The technology you need to provide intensive, efficacious phototherapy

Irradiance level*

- There's no distance factor to diminish treatment intensity
- Small pad irradiance is 50 $\mu W \cdot cm^{-2} \cdot nm^{-1}$
- Large pad irradiance is 35 $\mu W \cdot cm^{-2} \cdot nm^{-1}$

* nominal irradiance through the BiliSoft 2.0 covers and nests

BiliSoft 2.0 fiberoptic pad covers

- Ultra-soft, disposable BiliSoft 2.0 covers are made of flame-retardant, skin-friendly fabric
- BiliSoft 2.0 pad covers and nests have soft straps which help swaddle a baby in comfort and transmit phototherapy light too, if an additional overhead phototherapy source is required

Easy positioning

- A long, flexible, fiberoptic cable makes positioning easier than ever

Exceptional coverage

Provides greater surface area than other fiber-optic devices and many overhead lamps. The pad design also helps to eliminate distance deficiencies.

Conserve space, energy, and lower maintenance costs

- Small footprint and lightweight design, allows easy mounting to a bed or roll stand. Providing flexibility and conservation of space

Increased body surface exposure

The BiliSoft 2.0 can be used with the Giraffe Blue Spot PT Lite for effective phototherapy and increased body surface exposure. GE offers a complete portfolio of phototherapy products for treatment of hyperbilirubinemia – meeting the AAP Guidelines for intensive phototherapy.

The units host a long-lasting blue LED light that provides more than 50,000 hours of light therapy

Meeting the AAP's most precise guidelines

BiliSoft 2.0 LED Phototherapy System is the next generation LED and fiber-optic based technology for treatment of indirect hyperbilirubinemia in newborns. Its increased surface area, high spectral irradiance, and long lasting blue narrow-band LED light are the features that are needed for intensive, efficacious phototherapy as recommended by AAP Guidelines. It is also the only product on the market that supports and promotes developmental care, enables infant-parent bonding and provides healing light where it is needed – in Neonatal ICU, Pediatrics, Well Baby Nursery and at home.

The blue LED light delivers healing phototherapy that meets and exceeds the recommendations of the American Academy of Pediatrics[1] – including the following critical specifications:

Components of Intensive Phototherapy	AAP Guideline	BiliSoft 2.0 LED Phototherapy System
Light Intensity	Irradiance level at least 30 $\mu W \cdot cm^{-2} \cdot nm^{-1}$	35 $\mu W \cdot cm^{-2} \cdot nm^{-1}$ (large pad) 50 $\mu W \cdot cm^{-2} \cdot nm^{-1}$ (small pad) Nominal irradiance measured through soft cover
Peak Wavelength	Wavelength between 430-490 nm	445-470 nm, matching the peak absorption wavelength at which bilirubin is broken down (458 nm)[2]
Surface Area Coverage	Larger surface area, especially for combating extremely high bilirubin levels	Provides greater surface area than other fiberoptic devices and many overhead lamps
Distance	Distance between the infant and the light source is critical to spectral irradiance level	In contact with infant's skin, eliminating distance deficiencies entirely

1. Bhutani, V and the Committee on the Fetus and Newborn, (2011). Phototherapy to Prevent Severe Neonatal Hyperbilirubinemia in the Newborn Infant 35 or More Weeks of Gestation. Pediatrics, e1046-e1054.

2. Maisels, J., et al. (2009)-Hyperbilirubinemia in the Newborn Infant ≥35 Weeks' Gestation: An Update With Clarifications , October, 2009, Volume 124/Issue 4

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