

# BiliBee LED Phototherapy System



## Overview

For more than three decades, phototherapy has been the standard for treating neonatal jaundice. The benefits of utilizing phototherapy devices instead of sunlight include: 24 hour treatment, greater efficacy by narrowing the spectral range to 430-490nm, improved temperature regulation, and the elimination of harmful UV irradiation to the patient from sunlight exposure.

The BiliBee is revolutionizing the phototherapy industry by providing a completely portable and maintenance free system by eliminating the fiber optic cable found on many of the competing phototherapy systems.

The BiliBee is a highly portable device that utilizes an LED illuminator pad for the treatment of neonatal jaundice (hyperbilirubinemia). Treatment is applied by placing the patient on the BiliBee pad while a disposable sheath separates the infant from the pad's surface. Treatment is intended to be applied 24 hours a day until the infant's bilirubin levels have been effectively lowered to an acceptable level according to AAP guidelines.



## BiliBee System – Features & Benefits

### Lightweight and Portable

#### Benefit to Patient:

- Ease of use for nursing mothers as compared to other units
- Helps facilitate Mother-Baby bonding
- Weight is 13 ounces (compared to 8-14lbs for competing units)
- Size and dimension promotes 24 hour treatment capability
- Less risk of tripping hazard when not plugged

### LED Illuminator PAD

#### Benefit to Patient:

- LED surface area provides full coverage to infant's back
- Disposable sheath separates infant from pad

### Battery Pack Powered

#### Benefit to Patient:

- Phototherapy Unit can work during a power outage
- Provides up to 4 hours of continuous treatment without AC outlet
- Portability promotes 24 hour light treatment through ease of use
- Treatment can be given when parent/caregiver is away from home, at doctor's office, on errands, etc.

	BiliBee LED™	Phillips Bili TX™	GE BiliSoft™	Medela Bilibed®
FDA Approved	✓	✓	✓	✓
Promotes Mother/Baby	✓	✓	✓	✓
Lightweight	✓	✓	✓	✓
Battery Pack	✓	✓	✓	✓
Portable	✓	✓	✓	✓
LED Light Source	✓	✓	✓	✓
Maintenance Free	✓	✓	✓	✓



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## BiliBee Specifications

*The BiliBee LED Phototherapy System is a medical Class II System*

- FDA Approved
- AC/DC Operating Capabilities
- Size – Illumination Panel (8.3in tall by 5.1in wide) & Controller (5.2in tall by 3.2in wide)
- Weight – less than one lb. (13.3 ounces combined)
- Size & Dimension provides full coverage of infant's back
- One year warranty with option to extend to 5 years
- Easy Clean Up – Cavacide wipes and disposable sheaths
- Maintenance Free – no moving parts and no external connections
- LED light source, no Fiber Optic Cables
- System certified to IEC60601-2-50 "Particular Requirement for the Safety of Infant Phototherapy Equipment"
- HCPCS Code: E0202
- Designed for Continuous Operation
- Light Band width Peak: 455-485 nm
- Operating Temperature: 59°F(15°C) to 140°F(40°C)
- Irradiance Level: 60 ±10μ W/cm<sup>2</sup>/nm\*

\*Average irradiance level of illuminated area with protective sheath

## AAP Guidelines for Phototherapy Equipment

- Irradiance level of at least 30 ±10μ W/cm<sup>2</sup>/nm
- Wavelength between 430 nm to 490 nm
- Larger surface area especially for combating extremely high bilirubin levels
- The distance between the infant and the light source is critical to the Spectral Irradiance Level

Reference Material: American Academy of Pediatrics, clinical practice guideline, subcommittee on hyperbilirubinemia: Management of hyperbilirubinemia in the newborn/infant 35 or more weeks of gestation, 2004; pages 297-316

## Key Elements for Phototherapy Equipment

- Irradiance Intensity
- Light Spectrum
- Surface Area Coverage
- Distance



## Contact Information

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