

# neoBLUE<sup>®</sup>

## LED Phototherapy

### neoBLUE<sup>®</sup> LED PHOTOTHERAPY OVERVIEW

Natus' neoBLUE LED Phototherapy System is a floor-standing, mobile phototherapy device that delivers a narrow band of high-intensity blue light via blue light emitting diodes (LEDs) to provide treatment for neonatal hyperbilirubinemia in the hospital setting. Blue LEDs emit light in the range of 400 – 500 nm (peak wavelength 450 – 470 nm). This range corresponds to the spectral absorption of light by bilirubin, and is thus considered to be the most effective for the degradation of bilirubin. Blue LEDs do not emit significant ultraviolet (UV) or infrared (IR) radiation, so they can be placed close to the baby.

### STEPS FOR USING THE neoBLUE LIGHT ON A PATIENT

1. **Per hospital protocol or at least every 6 months, check light intensity.** LEDs have very gradual degradation of intensity over time. A typical LED panel will provide over 4,000 hours of intensity above 30  $\mu\text{W}/\text{cm}^2/\text{nm}^*$  with a total of 10,000 hours of life (intensity above 12  $\mu\text{W}/\text{cm}^2/\text{nm}^*$ ). When intensity drops below the desired level, biomedical engineering can adjust it via the potentiometer on the side of the enclosure. (Refer to service manual)

*\*As measured by a neoBLUE<sup>®</sup> Radiometer at 12 inches (30.5 cm) from the baby.*

2. **Shield infant's eyes with appropriate protective eye shields.**

3. **Position light over infant.** The light can be tilted and adjusted both horizontally and vertically on the roll stand assembly. The light enclosure can be tilted to approximately 40° up from horizontal (the resting position). The light enclosure can be tilted by grasping the device on either side and adjusting to desired angle.



Proximity adjustment

Height adjustment

When adjusting the proximity, hold up the neoBLUE light enclosure with one hand to lessen the weight on the rail.

4. **Note hour count on timer.** If you track patient treatment time, note the number of hours at the beginning of treatment, and again at the end of treatment.

5. **Turn on power switch on front of light enclosure.** This is the green switch in the center of the front panel.

6. **Press Target Illumination Switch to center light over infant.** Confirm placement of the light to cover maximum surface area of the baby for best results. The target light is red and should be centered over the baby's torso.

7. **Per physician order, select High or Low intensity at Irradiance Level Control Switch.** Depending on your hospital protocol, high may correspond with "double" or "triple" phototherapy. Low typically corresponds to "single" phototherapy.

### Intensity Measurements

The neoBLUE light is calibrated at the factory with the neoBLUE<sup>®</sup> Radiometer to yield the following intensities at 12 inches (30.5 cm) from the baby:

- a. High intensity: 30-35  $\mu\text{W}/\text{cm}^2/\text{nm}$
- b. Low intensity: 12-15  $\mu\text{W}/\text{cm}^2/\text{nm}$

Different radiometers will yield different measurements. Some radiometers are calibrated to broad band light sources (e.g., white light) and will not register high intensity with a narrow band blue light. Refer to the chart below for more information on what your radiometer may read if you are not using a neoBLUE<sup>®</sup> Radiometer.

Radiometer Intensity ( $\mu\text{W}/\text{cm}^2/\text{nm}$ ):	neoBLUE <sup>®</sup> Radiometer	Ohmeda BiliBlanket <sup>®</sup> Meter II	Olympic Bili-Meter <sup>™</sup>
neoBLUE overhead light measured at 12 inches / 30.5 cm distance	35	35	22.7

[Continued On Reverse Side]

## HOSPITAL INSERVICE



Bilband<sup>®</sup> Eye Protectors  
Size: Micro (P/N 900644)  
Premature (P/N 900643)  
Regular (P/N 900642)

Tilting the light enclosure



**NOTE:** Vents are located on the underside of the enclosure. **Do not block vents** when using drapes or other light shielding methods.



# Neoblue Led Phototherapy Service Manual

**Stan Prentiss**



## **Neoblue Led Phototherapy Service Manual:**

*Natus NeoBLUE LED Phototherapy System* Stephanie Wentworth, Steven Edwards, Diane Crawford, Great Britain. Medicines and Healthcare products Regulatory Agency, 2004      *Evaluation MHRA 04143 natus neoblue led phototherapy system* S. Wentworth, 2004      Zenith Color Tv Service Manual Robert Goodman, 1975      *General Electric Color TV Service Manual* Robert L. Goodman, 1970      **Toshiba Color TV** Tab Books, 1975      *Zenith Color TV Service Manual Volume Two* Robert L. Goodman, 1971      **Autolite Service Manual** American Bureau of Engineering, 1920      *General Electric Color Tv Service Manual* S. Prentiss, 1975      **Zenith Color TV Service Manual** Robert L. Goodman, 1973      Zenith Color TV Service Manual Robert L. Goodman, 1969      Sylvania Color Tv Service Manual S. Prentiss, 1975      Sylvania Color TV Service Manual Stanton Rust Prentiss, 1970      *Philco Color TV Service Manual* Robert L. Goodman, 1970-05-01      Airline Color Tv Service Manual for Montgomery Ward , 1975      Sylvania Color TV Service Manual Vols. 1 Stan Prentiss, 1970

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**General Electric Color TV Service Manual** Robert L. Goodman, 1977-01-01      *Sylvania Color TV Service Manual, Vol. 2* Stan Prentiss, 1972

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