

Phototherapy, LED, for jaundice

Country of origin | India

Primary function | Treatment

Health problem addressed

Jaundice is the first cause for newborns readmittance to hospitals worldwide. About 3 in 5 children have some degree of jaundice. For approximately 18% of babies, the condition is severe and requires treatment. Severe jaundice, when left untreated or ineffectively treated, can lead to severe brain damage (a condition called kernicterus) or death.

Disease addressed

Pregnancy, childbirth, and the puerperium.

Technical descriptions

The device is an easy-to-use LED-based phototherapy designed for treating infants with jaundice, a condition that affects 60% of the babies born worldwide.

Developer's claims of products benefits

Most phototherapy devices on the market use tube lights or compact fluorescent (CFL) bulbs for phototherapy, which do not provide adequate intensity and surface area coverage. This phototherapy device has greater intensity than the typical phototherapy devices and has an integrated light meter, expanded functionality, and a sleek look to work better in the neonatal intensive care unit. Tests conducted at the Stanford School of Medicine show that the device performs on par with or better than state-of-the-art phototherapy devices. It lasts over 60 times longer than CFL commonly used in phototherapy devices do.

Operating steps

After installation, plug the device into main power. Switch on the device and set the intensity level using the "Intensity Adjustment" buttons. Other buttons are "Observation Light" and "On/Off" buttons. Protect the newborn's eye and genital parts with eye mask and gonad pads during therapy.

Regulatory status and standards compliance

European Community (CE-mark). ISO.

Use and maintenance

User: Midwife, nurse, general physician, neonatologist.

Maintenance/Calibration required: Yes

Environment of use

Setting: Rural settings, primary level (health post, health centre), secondary level (general hospital).

Energy requirements: Continuous power supply.

Product specifications

Weight (kg): 12

Dimensions: 123mm x 69mm x 64mm

Accessories: Light meter to check the intensity

Consumables: Eye mask, genital pads

Lifetime: 5-10 years

In UN catalog: No

Commercial information

Reference price (USD): \$500.00

Year of commercialization: 2014

Number of units distributed: 1 001-10 000

Model: Brilliance Pro

Other features: Reusable (assuming appropriate decontamination and/or other reprocessing between uses)

