

Phototherapy, portable LED system

Medical device

WHO compendium of innovative health technologies for low-resource settings

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Country of origin | United States of America

Primary function | Treatment

Health problem addressed

Severe neonatal jaundice occurs in approximately 10% of all newborns. If untreated, newborns are at risk for permanent brain injury manifesting as deafness, vision impairment, cerebral palsy or death. Nearly all cases can be cured by timely treatment with high intensity blue light phototherapy. Infants in developing areas often lack access to effective phototherapy and are at high risk for poor outcomes from jaundice.



Disease addressed

Certain conditions originating from the perinatal period.

Product information

This is a high intensity, LED neonatal phototherapy device that delivers the recommended irradiance and wavelength to treat neonatal jaundice (hyperbilirubinemia). It is collapsible and can be rolled to fit in a shipping tube. When assembled for use the light array is in a curved configuration at a fixed height above the infant to maximize skin exposure and eliminate risk of decreased efficiency due to lamp position error. Very low energy requirements enable long battery operation (>10hrs).

Use and maintenance

User: Trained caregiver (e.g family member), midwife, technician, nurse, general physician, specialized physician.

Training: Device setup and operation instructions will be provided. This may be done in person or with the written user manual. The device is very intuitive with minimal training time required.

Environment of use

Setting: Rural settings, urban settings, indoors, at home, primary level (health post, health centre), secondary level (general hospital), tertiary level (specialists hospital).

Energy requirements: Rechargeable battery, continuous power supply.

Product specifications

Accessories: Infant eye shield.

Commercial information

Reference price (USD): 1500

Contact Donna Brezinski | Telephone +1 781 725 2460 | Web <https://bit.ly/2JutfG7>