

BILIFLEX

Fibrooptical system for neonates phototherapy

The product provides for efficient and quick decrease of bilirubin level in neonates with jaundice owing to use of high intensive, constant and uniform therapeutic light of narrow medical spectrum 450-480 nm hitting directly to the neonate's skin.

The potentially harmful ultraviolet and infrared irradiation is absent, thus decreasing risk of skin and eyes injury (including medical staff) and also hazard of hyperthermia and dehydration.



Advantages

- Compact and light
- Flexible fiber mattress with removable single use hoods
- Radiation efficiency 30 mW/cm/nm even through diaper
- Removable light guide for comfort of storage, cleaning and disinfection
- Bracket of fixation onto incubator pole, tool pole
- Possibility for domestic use
- No blinding for neonate and medical staff
- Radiation area 300x200 mm covers 90% of the neonate's body
- Radiation source resource is 5 years without replacement

Technical characteristics

Total radiation intensity for bilirubin in the center of cloth efficient irradiation area with connector for the following radiation level:	
– maximum	2700±675 mcW/cm ²
– mean	1800±450 mcW/cm ²
Peak value of radiation spectral density in the center of cloth efficient irradiation area with connector for the following radiation level:	
– maximum	30 mcW/(cm ² ·nm)
– mean	20 mcW/(cm ² ·nm)
Local distribution of total radiation intensity for bilirubin over cloth efficient irradiation area with connector	40%
Noise level, produced by the product at a distance 1 m from the control unit	60 dBA
Duration of one phototherapy cycle in the mode TIMER (countdown time of phototherapy carrying out):	
– minimum duration	5 min
– maximum duration	72 h
Step of time change in the mode TIMER	5 min
Duration of one phototherapy cycle in the mode CLOCK	72 h
Mean life time	5 years
Class of safety	Ila
Voltage	98 - 242 V
Frequency	50±0,5 Hz
Power consumption	100 V·A
Control unit dimensions (width x depth x height)	200x180x200 mm
Dimensions of cloth with connector:	
– cloth	230x10x430 mm
– cable with connector	75x55x1150 mm
Efficient irradiation area with connector	(200±5)x(300±5) mm
Weight of control unit / cloth with connector	3 kg / 1 kg

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