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PHOTOTERAPEUTIC APPARATUS “MALYSH”

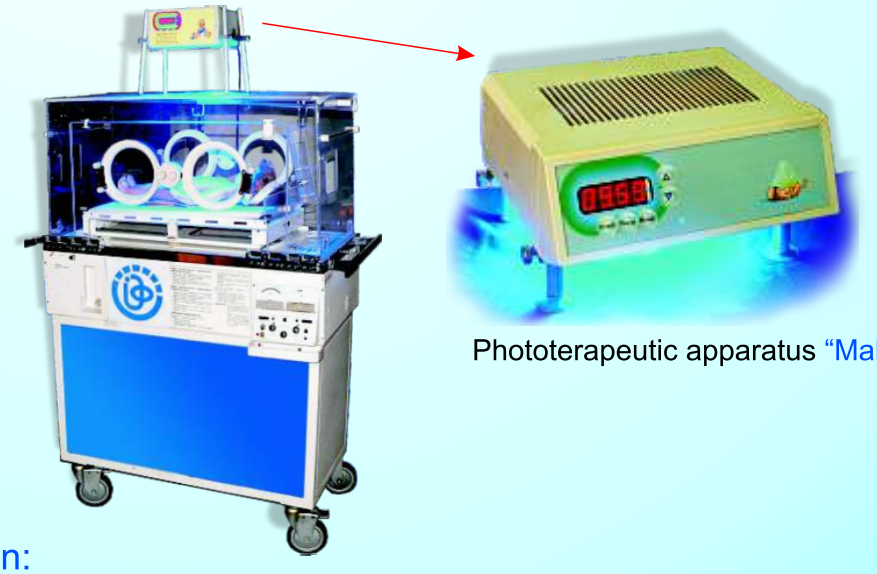
The apparatus is designed on the basis of LED sources operating in the blue-green spectral range. It has no analogs in the efficiency of treatment of jaundice (hyperbilirubinemia) in newborn babies.

The apparatus makes it possible to increase the time of phototherapy by approximately three times and to completely exclude the side adverse effects given by the traditionally used lamp light sources because of the presence of the ultraviolet and infrared components in their emission spectrum (the intensity of these components increases with increase in the time of use of the lamps).

The use of the apparatus “Malysh” for the treatment of heavy forms of hemolytic jaundice makes it possible, in the majority of cases (97—98%), to refuse from the blood transfusion in a newborn baby — the procedure that can lead to the fatal outcome (1%).

TECHNICAL DATA:
Size of the light spot: 200x500 mm;
Time of continuous work: 24 h;
Mean guaranteed life of the apparatus: 10 000 h;
Mass: 4 kg;
Dimensions: 240x200x120 mm

Development and joint production:
— Institute of Physics of the NASB;
— Lyuzar Company.



Phototerapeutic apparatus “Malysh”

Participating medical organization:
Mother and Baby Center.

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