



## **BiliLux Pocket Guide** How to set up the BiliLux phototherapy system?

This pocket guide is not a substitute for reading the instructions for use. It is also not a replacement for mandatory instructions or training courses.



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## WHAT IS HYPERBILIRUBINEMIA?

“Hyperbilirubinemia is the most common condition requiring evaluation and treatment in newborns. The clinical manifestation of hyperbilirubinemia – jaundice – occurs in 60% of normal newborns and nearly all preterm infants.”<sup>1</sup>

Neonatal jaundice is causing:

- Concern for caregivers
- Anxiety for patients
- Risk of permanent brain damage (kernicterus)<sup>2</sup>

Some babies are more likely to have jaundice or have more severe jaundice – including babies born before 38 weeks of complete gestation.<sup>2</sup>

Hyperbilirubinemia is one of the leading causes of hospital readmissions.<sup>3,4</sup>

Phototherapy is effectively used as a noninvasive method of treating neonatal hyperbilirubinemia: Blue-green light in the range of 460–490 nm is most effective for reducing bilirubin. The BiliLux light covers this most effective wavelength range. Next to providing superior phototherapy performance, the BiliLux enables individualised therapy with electronic documentation capabilities and the flexibility for seamless integration into practically every workplace.

<sup>1</sup> Watson RL., Hyperbilirubinemia, Crit Care Nurs Clin North Am. 2009 Mar; 21(1):97-120

<sup>2</sup> Bhutani VK, Johnson LK, Keren R. Diagnosis and management of hyperbilirubinemia in the term neonate: for a safer first week. Pediatr Clin North Am 2004;51(4):843-61.

<sup>3</sup> Bhutani VK, Johnson L. A proposal to prevent severe neonatal hyperbilirubinemia and kernicterus. J Perinatol 2009;29 Suppl 1:S61-S67.

<sup>4</sup> Kumar RK. Neonatal jaundice. An update for family physicians. Aust Fam Physician 1999; 28:679-682.

## OVERVIEW

**This pocket guide helps you to start and set up the Bililux**

- on an incubator hood,
- with the optional spring arm or
- with the optional trolley.



## HOW TO SET UP BILILUX

### Option 1: Placing the BiliLux phototherapy system on an incubator hood



1. The BiliLux phototherapy light can be placed directly on an incubator hood. Grab it with two hands on the short sides and position the light with the long side of the light parallel to the long side of the hood.



2. The four corners of the light have slip-resistant feet on the bottom that help to keep the light in place.



3. Finally switch on the phototherapy.

## Option 2: Installing the BiliLux with the spring arm



1. First attach the rail clamp to the clamp already mounted at the incubator.



2. Take the spring arm and place it into the rail clamp and tighten the adjustment screw.



3. Take the BiliLux and attach it to the spring arm by using the quick-connect mechanism until it audibly clicks into place.



4. Grab the arm with two hands – one at the light and the other close to the rail clamp. Now adjust the arm so that the photo-therapy light is placed directly above the patient. Grab the light itself at the short sides and position it over the baby.



5. Attach the power cord to the device and guide it through the cable clips.

### Option 3: Installing the BiliLux with the trolley



1. The trolley has four locking castors and a height-adjustable pole.



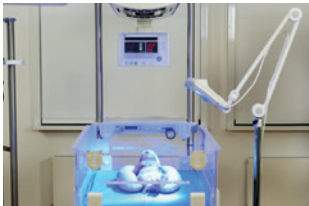
2. Insert the post on the bottom of the spring arm into the trolley pole and ensure that the arm is seated properly, then tighten the tightening knob on the trolley to secure the arm.



3. Insert the quick-connect plug on the phototherapy light into the arm socket until it audibly clicks into place.



4. To move the trolley the brakes have to be released – move the trolley as close as possible to the certain warming device and position it above the patient. As soon as the trolley is in the right position the castors have to be locked to prevent movement.



5. Adjust the arm so that the phototherapy light covers the baby completely. Grab the light itself at the short sides and position it over the baby.

Do not position the phototherapy light directly in the path of heat rays from the radiant warmer.

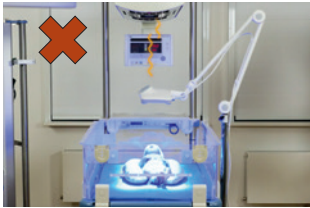


## HOW TO START BILILUX



1. To switch on the device use the on/off switch located on the rear of the phototherapy light.
2. The screen briefly shows the startup screen which contains the BiliLux firmware version and the current date and time.
3. The screen then proceeds to the therapy screen. The device is ready for use immediately after startup.
4. Now press the start key on the control panel to turn on the phototherapy light. The LED indicators also turn on to indicate irradiance level.
5. Adjust the irradiance to the desired level using the irradiance keys on the control panel. Measure the irradiance that the baby receives with the optional Radiometer.
6. The phototherapy screen shows the elapsed therapy time in hours and minutes. The colon in the therapy time blinks on and off to indicate that therapy is in progress.

## PRECONDITIONS



- Position the phototherapy light at least 30 cm (12 in) from the patient at a distance that provides the therapy.
- Do not position the phototherapy light directly in the path of heat rays from the radiant warmer.



- Take proper precautions when touching hot surfaces like the LED panel.
- Take care not to compromise cables or accessories when adjusting the spring arm to the desired position.



- Monitor the patient's body temperature during phototherapy.
- Measure patient bilirubin levels regularly.
- Take steps to monitor and maintain positive water balance in the patient.
- Always use eye shields to protect the patient from phototherapy equipment.

**Notes**

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Get more information about jaundice management and BiliLux on [www.draeger.com/jaundice](http://www.draeger.com/jaundice)

Scan the QR code and watch the BiliLux how-to-use video.

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