



# Instant results with a simple touch

BiliChek noninvasive bilirubin assessment tool

**PHILIPS**

Children's  Medical Ventures



# Assessing risk



# and improving care



Introducing the new BiliChek. Our innovation gives you the most advanced transcutaneous bilirubin measurement system on the market.

The new BiliChek noninvasive, transcutaneous bilirubin measurement system allows you to assess the risk of hyperbilirubinemia in newborns and to measure total bilirubin levels easier than ever before. Using light instead of a needle, BiliChek measures bilirubin levels in your newborn nursery, the mother's room, the NICU, or right in your office. There is no heel stick, no lab test and no waiting for results – just a simple, gentle touch.

Resting lightly on the baby's head or sternum, only a disposable plastic tip touches the baby, reducing the risk of infection or possible cross contamination. For the user, a new ergonomic design is lighter and provides greater dexterity. The touch sensitivity has been reduced, which equates to faster testing, increased productivity and rapid clinical adoption. Even a first-time user will be able to take high-quality measurements.

Clinically proven, BiliChek eliminates the costs and time associated with blood draws and laboratory services. There is less risk of infection, less trauma, and no pain while enabling a faster time to discharge or a decision toward treatment.

# Results at your fingertips

## BiliChek features

A new LCD color menu screen provides step-by-step instructions resulting in easier and more reliable readings for both new and experienced users. You get instant results enabling you to assess an infant's risk of hyperbilirubinemia and to make immediate treatment or discharge decisions.

## Verify, store and track patient information quickly and easily

A key pad and integrated barcode scanner allow the user to scan, verify and store nurse and patient information. BiliChek can then record, store and download bilirubin test results to a hospital's electronic medical records system to automate patient charting.



## New features

- Ergonomic design, slimmer and lighter, improves dexterity for easier measurements
- LCD color screen is perfect for operating in the low-light levels of a nursery
- Easy-to-read, step-by-step instructions, graphics and a faster measurement system increase proficiency and productivity
- Numeric key pad allows user to enter or attach patient or nurse information to the patient's bilirubin measurement
- On-board help system walks user through the measurement process and provides access to the online help menu
- New BiliChek provides an option to interface with hospital charting or laboratory information systems

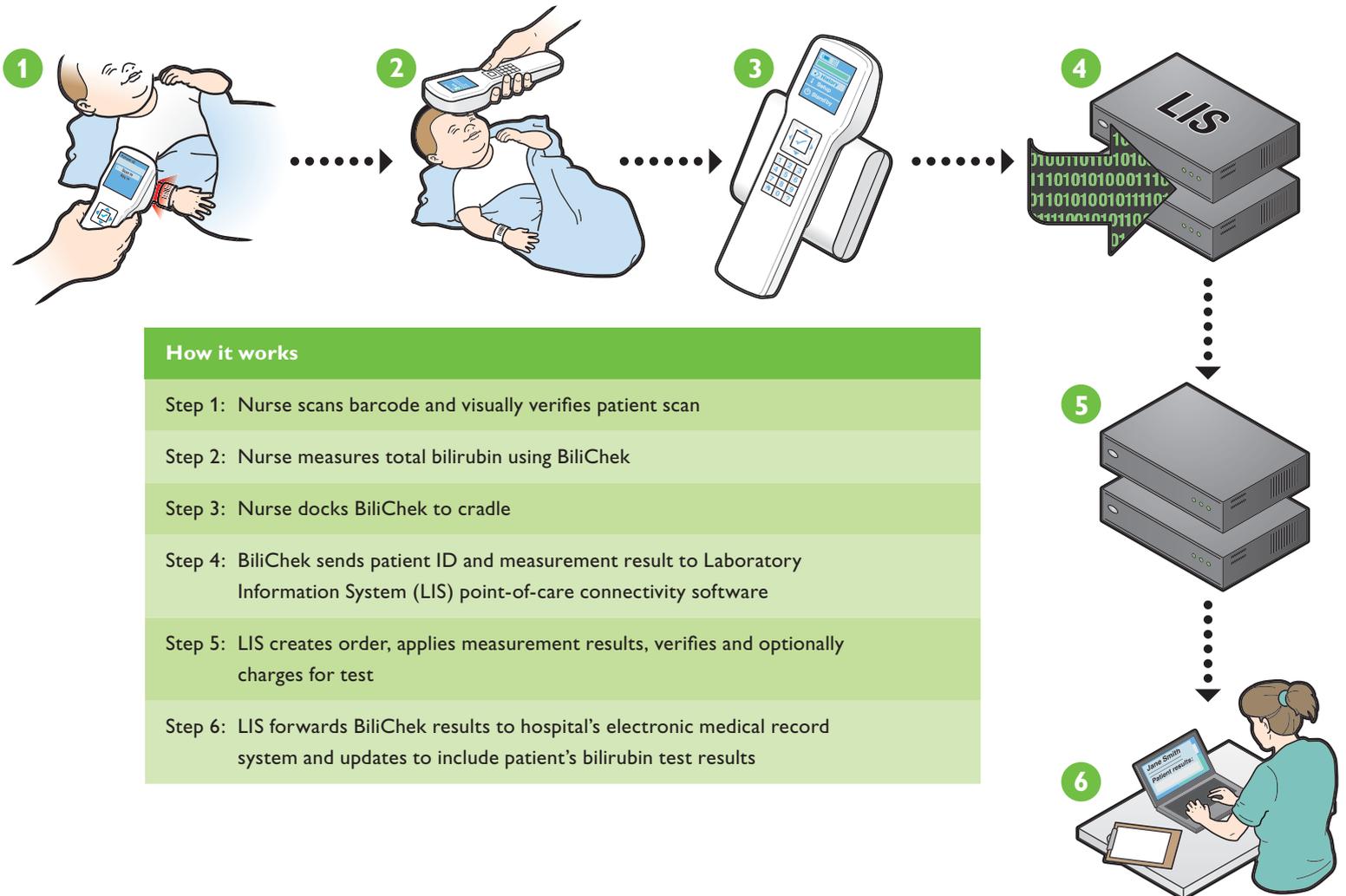


## Additional advantages

- Barcode scanner allows for accurate entry and verification of nurse and patient identification information
- New, less touch-sensitive tip allows for easier readings with reduced error
- Integral, long-lasting, rechargeable lithium battery



# BiliChek and your laboratory information system



How it works
Step 1: Nurse scans barcode and visually verifies patient scan
Step 2: Nurse measures total bilirubin using BiliChek
Step 3: Nurse docks BiliChek to cradle
Step 4: BiliChek sends patient ID and measurement result to Laboratory Information System (LIS) point-of-care connectivity software
Step 5: LIS creates order, applies measurement results, verifies and optionally charges for test
Step 6: LIS forwards BiliChek results to hospital's electronic medical record system and updates to include patient's bilirubin test results

# You can depend on Bilichkek

## Validated through clinical use

Ten years of field use has proven that BiliChek can correlate to hospital blood analyzers. Through clinical trials, BiliChek has been proven to correlate with a high degree of confidence to high-end, research-based blood analyzers (High Pressure Liquid Chromatography or HPLC) that demonstrate an accuracy of +/- 1.5 mg/dL. And BiliChek correlates to HPLC at a .90 coefficient value with accuracy (RMSE) of +/- 1.5 mg/dL.

BiliChek has gained clinical acceptance through a wide range of third-party clinical studies that support its use in the assessment of hyperbilirubinemia risk levels in newborns. BiliChek has proven effective in heterogeneous populations, and is indicated for use throughout the phototherapy process for neonates from 27 to 42 weeks up to a post-natal age of 20 days.

Specifications	
Intended use	Pre, during and post phototherapy
Gestational age	27-42 weeks
Post-natal age	0-20 days
Patient weight range	950-4,995 grams
Total serum bilirubin range	0-20 mg/dL 0-340 µmol/L
Accuracy (RMSE)	+/- 1.5 mg/dL at 66% percent of the time or 1 sigma +/- 26 µmol/L at 66% percent of the time or 1 sigma
Repeatability (SD)*	+/- 0.66 mg/dL +/- 11.2 µmol/L
Correlation	r = 0.90
BiliChek hand-held unit	
Dimensions	5.23 cm W x 20.45 cm L x 5.94 cm H (2.06 in W x 8.05 in L x 2.34 in H)
Weight (with battery pack)	346 g (12 oz)
Battery pack	
Type	Lithium Ion
Voltage	3.7 V
Measurements per full charge (maximum)	40
Expected battery life (minimum)	1 year
Recharge time (maximum)	8 hours
Charger base	
Dimensions	9.14 cm W x 9.01 cm L x 4.30 cm H (3.60 in W x 3.55 in L x 1.69 in H)
Weight (with battery pack)	140 g (0.31 lb)
Power supply	
Input	100-240 V AC, 50/60 Hz, 0.4 A
Output	5 V DC, 2.0 A
Connectivity	
Ethernet specification	10 baseT half duplex

Ordering information		
Item no	Description	Quantity
1067554	BiliChek system with wall mount power supply (Languages Eng, ES, FR, DE, PT)	1/each
1067568	BiliChek system with wall mount power supply (Languages DA, NL, EL, SV, NO)	1/each
1067561	BiliChek system with desk top power supply* (Languages Eng, ES, FR, IT, DE, PT)	1/each
1067562	BiliChek system with desk top power supply* (Languages DA, NL, EL, SV, NO)	1/each
B800-50	BiliCal – BiliChek disposable calibration tip	50/pack
B800-11	BilEclipse phototherapy patch	50/pack
B800-12	BilEclipse phototherapy patch	10/pack

\*Specify country specific power cord during ordering

\*Instrument-to-instrument repeatability

Easily transportable, compact design. Extremely lightweight at less than three pounds. Specially-sized neonatal panel is available.



## BiliTx phototherapy system

A ray of light becomes a ray of hope

BiliTx provides a brighter future for infants with hyperbilirubinemia (jaundice) and hope to anxious parents. This new phototherapy system places effective light therapy in the hands of clinicians and parents while delivering reliable business solutions to hospitals and home healthcare providers.

BiliTx delivers highly effective phototherapy through the use of blue light-emitting diodes (LEDs) that meet the American Association of Pediatrics' phototherapy guidelines. This blue LED technology delivers cool spotlight therapy that provides neonates with a stable thermal environment without the heat transfer that halogen phototherapy devices can generate. BiliTx delivers superior irradiance when used in the overhead spot configuration or through standard fiber-optic panels, making it reliable and effective for use in the NICU, pediatrics and well-baby nursery, as well as the home.

**Philips Healthcare is part of  
Royal Philips Electronics**

### How to reach us

[www.philips.com/healthcare](http://www.philips.com/healthcare)  
[healthcare@philips.com](mailto:healthcare@philips.com)  
 fax: +31 40 27 64 887

Asia  
 +852 2821 5888

Europe, Middle East, Africa  
 +49 7031 463 2254

Latin America  
 +55 11 2125 0744

North America  
 +1 425 487 7000  
 800 285 5585 (toll free, US only)

Philips Children's Medical Ventures  
 191 Wyngate Drive  
 Monroeville, PA 15146

Customer Service  
 +1 724 387 4000  
 800 345 6443 (toll free, US only)

Respironics Asia Pacific  
 +65 6298 1088

Respironics Australia  
 +61 (2) 9666 4444

Respironics Deutschland  
 +49 8152 93 06 0

Respironics Europe, Middle East, Africa  
 +33 1 47 52 30 00

Respironics France  
 +33 2 51 89 36 00

Respironics Italy  
 +39 03 62 63 43 1

Respironics Sweden  
 +46 8 120 45 900

Respironics Switzerland  
 +41 6 27 45 17 50

Respironics United Kingdom  
 +44 800 1300 845

[www.philips.com/childmed](http://www.philips.com/childmed)



### BilEclipse phototherapy patch

The BilEclipse patch isolates a section of skin before, during and after phototherapy so transcutaneous bilirubin measurements can be taken with BiliChek.

### BiliCal individual calibration tips

Individual calibration tips are disposable plastic, reducing the risk of infection or possible cross contamination.



BiliChek, BiliTx, BilEclipse and BiliCal are trademarks of Respironics, Inc., and its affiliates. All rights reserved.



© 2009 Koninklijke Philips Electronics N.V.  
 All rights are reserved.

Philips Healthcare reserves the right to make changes in specifications and/or to discontinue any product at any time without notice or obligation and will not be liable for any consequences resulting from the use of this publication.  
 CAUTION: US federal law restricts these devices to sale by or on the order of a physician.

HOECH JH 10.15.09 MCI 4102693 PN 1065896