Instant results with a simple touch

BiliChek noninvasive bilirubin assessment tool
Assessing risk
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
**How it works**

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

**BiliChek and your laboratory information system**
You can depend on Bilichek

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.

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Pre, during and post phototherapy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intended use</td>
<td>Pre, during and post phototherapy</td>
</tr>
<tr>
<td>Gestational age</td>
<td>27-42 weeks</td>
</tr>
<tr>
<td>Post-natal age</td>
<td>0-20 days</td>
</tr>
<tr>
<td>Patient weight range</td>
<td>950-4,995 grams</td>
</tr>
<tr>
<td>Total serum bilirubin range</td>
<td>0-20 mg/dL, 0-340 µmol/L</td>
</tr>
<tr>
<td>Accuracy (RMSE)</td>
<td>+/- 1.5 mg/dL at 66% percent of the time or 1 sigma</td>
</tr>
<tr>
<td>Repeatability (SD)*</td>
<td>+/- 0.66 mg/dL, +/- 11.2 µmol/L</td>
</tr>
<tr>
<td>Correlation</td>
<td>r = 0.90</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BiliChek hand-held unit</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>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)</td>
</tr>
<tr>
<td>Weight (with battery pack)</td>
<td>346 g (12 oz)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Battery pack</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Lithium Ion</td>
</tr>
<tr>
<td>Voltage</td>
<td>3.7 V</td>
</tr>
<tr>
<td>Measurements per full charge (maximum)</td>
<td>40</td>
</tr>
<tr>
<td>Expected battery life (minimum)</td>
<td>1 year</td>
</tr>
<tr>
<td>Recharge time (maximum)</td>
<td>8 hours</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Charger base</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>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)</td>
</tr>
<tr>
<td>Weight (with battery pack)</td>
<td>140 g (0.31 lb)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Power supply</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Input</td>
<td>100-240 V AC, 50/60 Hz, 0.4 A</td>
</tr>
<tr>
<td>Output</td>
<td>5 V DC, 2.0 A</td>
</tr>
</tbody>
</table>

| Connectivity | 10 baseT half duplex |

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

*Specify country specific power cord during ordering

*Instrument-to-instrument repeatability
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. The new phototherapy system pairs 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 outcomes 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.

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

BiliChek is part of Royal Philips Electronics
Philips Children’s Medical Ventures
191 Wyngate Drive
Monroeville, PA 15146
Customer Service
+1 425 487 7000
800 285 5585 (toll free, US only)

Philips Healthcare is part of Royal Philips Electronics
How to reach us
www.philips.com/healthcare
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)

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 33 62 43 43 1

Respironics Sweden
+46 8 120 45 930

Respironics Switzerland
+41 62 77 77 77

Respironics United Kingdom
+44 800 155 243

www.philips.com/childmed

BiliTx phototherapy system
BiliCal individual calibration tips
Individual calibration tips are disposable plastic, reducing the risk of infection or possible cross contamination.

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

BiliChek phototherapy system
The BiliChek system provides a noninvasive assessment of bilirubin levels that complies with the American Academy of Pediatrics guidelines, reducing the risk of infection and possible cross contamination.

Philips Healthcare reserves the right to make changes in specific 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.