

PYRAMES



BOPPLI®

Continuous Non-invasive Blood Pressure (cNIBP) Monitoring **for Neonates**



Accuracy for critically-ill
infants



Ease of use for workflow
efficiencies



Clinical insights from
continuous monitoring



Minimized risk for patient
safety and comfort

Blood Pressure is where all
Treatment Decisions Begin



Continuous Non-invasive Blood Pressure (cNIBP) Monitoring **for Neonates**

cNIBP monitoring can
provide clinicians:



Accuracy for critically-ill
infants

- Performance within FDA acceptance criteria in a pivotal clinical study of 79 patients and 3,400 hours of data, comparing Boppli to an invasive arterial line for systolic, diastolic, and mean arterial BP.



Ease of use for workflow
efficiencies

- Ease of placement for quick results; effective on either radial or dorsalis pedis pulse points.
Untethered use with wireless monitoring through Bluetooth connection; creating workflow efficiencies.



Clinical insights from
continuous monitoring

- Boppli's innovative sensor technology enables physicians to observe blood pressure changes in real-time compared to cuffs, allowing better informed and more timely patient care decisions.



Minimized risk for patient
safety and comfort

- Eliminates risk of nerve injury, tissue necrosis, and infection compared to invasive arterial line monitoring.
Reduced risk of ischemic damage from restricted blood flow due to frequent cuff use.

Boppli® - accurate, non-invasive, low risk, convenient

Boppli provides continuous, non-invasive blood pressure (cNIBP) monitoring for infants, including premature neonates, in critical care settings. Boppli reports systolic, diastolic and mean arterial blood pressure values comparable to an invasive arterial line (IAL) when used in conjunction with SpO2 monitoring.

The **Boppli Band** is a single-use, battery-powered blood pressure monitor that uses a thin, flexible sensor to continuously monitor blood pressure (BP) non-invasively. The Boppli Band wirelessly pairs with the Boppli Bedside tablet to enable live display of BP and pulse rate, and review of recorded BP data over time.



COMFORT

Minimal contact,
no skin adhesive

EFFECTIVE

Continuous, non-invasive
monitoring for better health
outcomes



BIOCOMPATIBLE

Foam band for use on
fragile, intact skin

DURABLE,

Moisture-resistant
electronics

ROBUST

imperceptible heat
from sensor;
72-hour battery life

CONVENIENT

Easy-to-use interface; clear
presentation of BP and pulse
rate values



WIRELESS

Bluetooth Low
Energy between
Band and Bedside
Device

- **Lower risk** than intraarterial BP monitoring
- **Simple, cost-effective** deployment
- **Improved** patient experience

Boppli Benefits All Stakeholders



PATIENT – Less pain and distress, one fewer wire. Reduced infection and blood clot risk. Easier to hold baby, leading to kangaroo care.



FAMILY – Assurance their baby is continuously monitored. Comfort knowing baby is in less pain and distress, and resting more comfortably.



NURSES – Workload reduction, increases opportunity for more effective care.



PHYSICIANS – Boppli's innovative continuous blood pressure monitoring can enable doctors to non-invasively observe changes of blood pressure in real-time, allowing better informed and more timely patient care decisions.



HOSPITAL – Lower cost and less risk of adverse events compared to IALs.



Boppli demonstrated accuracy for systolic, diastolic, and mean arterial blood pressure within FDA acceptance criteria *without external calibration*, in a multisite, IRB-approved study of 79 critically ill NICU infants (<5 kg).¹

--PYRAMES PIVOTAL CLINICAL STUDY, 2022

Over 50% of NICU Admissions could benefit from BP monitoring but would not receive an arterial line because it is invasive and costly.²

--PEDIATRIC RESEARCH, 2019

"I have spent my career working with fragile and critically ill children, and it is clear that we need a safer alternative to monitor blood pressure than arterial catheters. The PyrAmes platform has the potential to reshape medical care and provide vast benefit to patients and clinicians."³

--Thomas M. Krummel, MD, FACS, FAAP

1. 92-0005 Pivotal Clinical Study Report, PyrAmes, 2022
2. Kumar, N., Akangire, G., Sullivan, B. et al. Continuous vital sign analysis for predicting and preventing neonatal diseases in the twenty-first century: big data to the forefront. *Pediatr Res* **87**, 210–220 (2020). <https://doi.org/10.1038/s41390-019-0527-0>
3. Emile Holman Professor and Chair Emeritus, Department of Surgery, Stanford University School of Medicine. William E. Ladd Medal Winner

To learn more about how the value of Boppli can help your NICU, PICU, and CVICU patients, contact us:

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