



NeoBeat

Newborn Heart Rate Meter

A reusable and consumable-free heart rate meter. The device is easy-to-use and rapidly provides an accurate and digital display of the newborn heart rate.



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Rapid detection of heart rate

NeoBeat takes seconds to put on a newborn's torso and presents the heart rate rapidly. With rapid detection of heart rate, clinicians may have a better understanding of the newborn, enabling timely continuation of care. NeoBeat is faster and more accurate than other available methods like stethoscopes, pulse oximetry or umbilical cord palpation.^[1-3]

Obtain accurate and objective heart rate measurement

NeoBeat uses dry electrodes to pick up an ECG-based signal. ECG is the most reliable way to measure newborn heart rate, recommended by the International Liaison Committee on Resuscitation (ILCOR) 2015 guidelines.

Focus on the patient

When NeoBeat is applied on the baby's torso it rapidly provides a digital display of the heart rate, enabling the whole team to focus on the baby. As interventions are performed, everyone in the team can clearly see the baby's heart rate.



Features

- Dry electrodes to pick up an ECG-based signal, as recommended by ILCOR.
- Mountable charging stand for quick and easy access to the device.
- Bright, digital display that informs a single provider or a larger team on the newborn's heart rate.
- Can be placed on the back of the baby to obtain heart rate while enabling skin-to-skin.
- Reusable and consumable-free.



[1] Voogdt KG, Morrison AC, Wood FE, van Elburg RM, Wyllie JP. A randomised, simulated study assessing auscultation of heart rate at birth. *Resuscitation*. 2010 Aug;81(8):1000-3. doi: 10.1016/j.resuscitation.2010.03.021. Epub 2010 May 18. PMID: 20483522.

[2] Murphy MC, De Angelis L, McCarthy LK, et al. Comparison of infant heart rate assessment by auscultation, ECG and oximetry in the delivery room. *Archives of Disease in Childhood - Fetal and Neonatal Edition* 2018;103:F490-F492.

[3] Bush JB, Cooley V, Perlman J, et al. NeoBeat offers rapid newborn heart rate assessment. *Archives of Disease in Childhood - Fetal and Neonatal Edition* 2021;106:550-552.

Developed with health workers, based on research

NeoBeat was developed together with health workers as part of one of the largest newborn resuscitation studies in the world – the Safer Births Project in Tanzania. It responds to a need to support health workers caring for asphyxiated newborns by providing a tool that guides their efforts and gives them immediate measurement, without adding a burden.

NeoBeat is available in two sizes

NeoBeat Mini: Intended for use on newborns weighing 0.8 - 2 kg.



NeoBeat: Intended for use on newborns weighing 1.5 - 5 kg.



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Laerdal Global Health is a not-for-profit company dedicated to helping save the lives of mothers and newborns. For more information and to place an order visit www.laerdalglobalhealth.com @LaerdalGH

