

HeRO Monitoring

Description

There are several morbidities associated with admission to the Neonatal Intensive Care Unit, including late-onset sepsis, Necrotizing Enterocolitis (NEC), upper respiratory tract infections (URTIs). Clinical signs of symptoms of these pathologies in neonates can be subtle and non-specific, presenting a diagnostic challenge for clinicians. The HeRO[®] monitoring system uses a proprietary algorithm to analyze subtle variations in heart rate to emit a HeRO[®] score. The HeRO[®] score is used to predict the likelihood of NICU patients to develop one of these potentially life-threatening conditions and guide medical investigations and clinical decision-making. In several studies, it has been shown to help clinicians diagnose complications earlier and has reduced mortality in very low birth weight (VLBW) infants by 22%.

Indications

All patients admitted to the NICU will be monitored using the HeRO system.

Contraindications

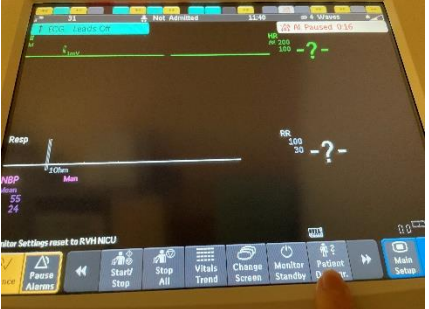
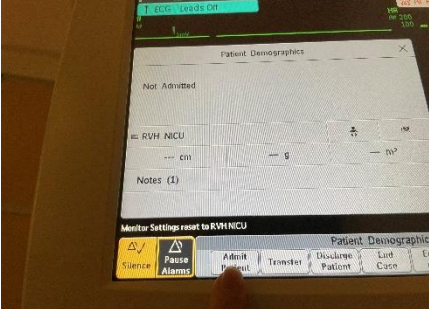
HeRO scores are validated in preterm infants up to 44 weeks CGA. If your patient is older than 44 weeks CGA, the medical team may not act on an elevated HeRO score without further clinical indications.

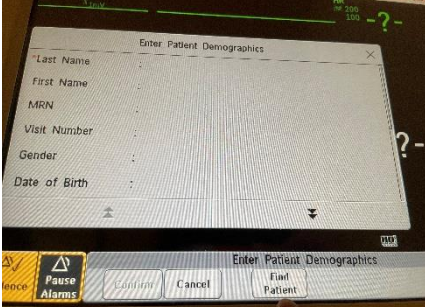
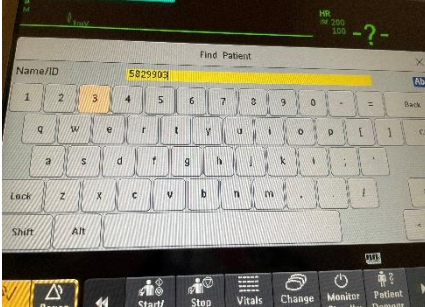
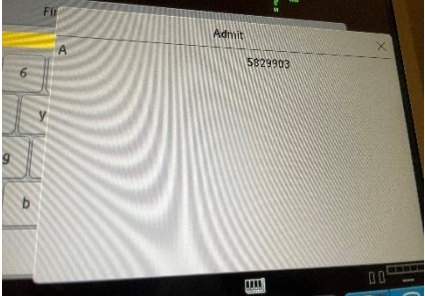
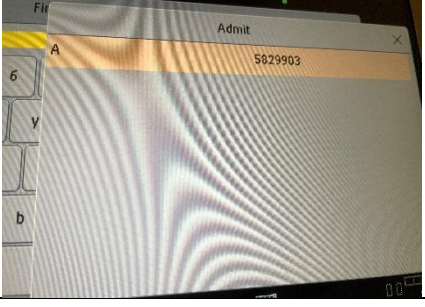
Equipment

Philips monitor and ECG leads/cable

Procedure

- Upon admission of the patient to the NICU, place on routine cardiorespiratory monitoring using Philips leads, cable and monitor.
- Admit the patient to the Philips monitor using their Medical Record Number (MRN) as described in the table below

Steps	Demonstration
Press on "Patient demogr"	
Press on "Admit Patient"	

<p>Press on "Find Patient"</p>		
<p>Enter the digits of the patients MRN and press "Enter"</p>		
<p>A list of patients with that MRN will appear.</p>		
<p>Highlight the patient with correct name and MRN and press "Confirm"</p>		
<p>The patient has now been admitted to the HeRO system</p>		

HeRO will begin collecting data immediately, but it will take 4 hours of data before a HeRO score appears on the monitor.

To access the HeRO score, you can view the central monitors at each nursing station or you can view it by clicking the HeRO icon on your computer desktop at each alcove:



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Steps	Demonstration
Press on "Patient demogr	
Press on "Transfer"	
Press on "B06-NICU"	
A list of available beds will appear	
Highlight the new room by pressing on it and then press on "Confirm"	

<p>You will have the option to move the patient with their X2 (small) monitor or to transfer the patient off monitor and use the X2 in the patient's new room. It is always recommended to transfer a baby on monitor.</p>	
<p>Move the patient to their new room. All HeRO data will now be associated with the new room (including historical data)</p>	

Monitoring and Documentation

- Record HeRO score on patient flowsheet in the box provided. Documentation should be done with vital signs:
 - For patient on Q1H vital signs (HFNC, CPAP, etc.), record HeRO score Q1H
 - For all other patient, record HeRO score with care/check
- If score is greater or equal to 2.00, advise medical team
- If score increases by 1 point over baseline (based on previous scores), within 1-3 hours, advise medical team (even if score is below 2)

HeRO monitoring algorithm

