

# NENA Sim

SIMULATOR FOR NEONATAL TRAINING



- ▶ Realistic simulation training is an essential step in improving healthcare. Medical professionals need to be able to put their acquired knowledge into practice, without harming real patients. Confidence, competence and experience have to be built up from realistic clinical simulation training.
- ▶ NENASim complements realistic multidisciplinary team or individual baby patient simulation training. NENASim is a neonatal simulator with an unprecedented level of realism, and offers an ideal training solution with different scenarios for a wide range of healthcare professionals, including patient care, emergency medical intervention and resuscitation training.

**The most realistic baby simulator**

# NENASim

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## FEATURES

### ▶ Realistic anatomy

NENASim has a life-like appearance. It can move its eyes, eyelids and head and it also simulates various breathing patterns with different rates, depths and complications. NENASim's movements are wirelessly controlled with the NENASim software. The simulator has vocal sounds to enhance the training realism, including laughing, crying, hiccups, coughing and breathing.

### ▶ Cardiovascular system

The trainee can observe blood circulation vital signs like blood pressure, pulse rate and respiratory rate on the patient monitor. The NENASim baby simulator also has real axillary and femoral pulse, which is synchronized with the patient monitor output. NENASim also teaches the fundamentals of infant CPR and trauma care.

### ▶ Airway management

Pediatric airway management remains a difficult task that many healthcare professionals need to face. NENASim allows training with endotracheal, nasotracheal and orotracheal intubation as well as mask ventilation.

### ▶ Scenario training

The user-friendly NENASim software provides Wi-Fi communication between the NENASim administrator controller software, the NENASim baby simulator and the NENASim patient monitor. With the wireless connection both indoors and outdoors training sessions can be conducted to maximize the life-like training. The trainer can choose training from the predefined scenarios or he can build his own scenarios to conduct customized training.

The baby simulator and the parameters of the monitor including ECG, SpO<sub>2</sub>, CO<sub>2</sub>, ABP, CVP, PAP, NIBP and TOF change automatically depending on the actions taken by the trainee in the scenario. The trainer can also change the scenario in real time to simulate sudden change in conditions.

### ▶ Stethoscope simulator

The NENASim stethoscope simulator provides heart, breathing, bowel and bruit sounds.



Realistic anatomy



Nasal and oral intubation through realistic airway system

## SYSTEM

The NENASim system consists of the following components:

- ▶ NENASim baby simulator
- ▶ NENASim administrator controller software
- ▶ NENASim patient monitor software
- ▶ Charger
- ▶ Suitcase
  
- ▶ Optional: Stethoscope simulator
  
- ▶ Compatible with both Microsoft Windows and MacOS



Life-like appearance and movement



Suitable for various training scenarios

## Benefits at a glance:

- ▶ Suitable for a wide range of healthcare professionals
- ▶ Realistic eyes, head and limb movements
- ▶ Axillary and femoral pulse
- ▶ CPR training
- ▶ Simulate various breathing patterns with different rates, depths and complications
- ▶ Vocal sounds: laughing, crying, hiccups, coughing and breathing
  
- ▶ User-friendly scenarios setup functions
- ▶ Automatic scenario training and real time adjustable scenario training
- ▶ Various parameters output on the patient monitor: ECGs, SpO<sub>2</sub>, CO<sub>2</sub>, ABP, CVP, PAP, PCWP, NIBP and TOF
- ▶ Heart, breathing, bowel and bruit sounds with stethoscope
  
- ▶ Intubation through anatomically realistic airway
- ▶ Wireless and tetherless control

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