NENASim Newborn Xcel

MEDICAL·X
ADVANCING SIMULATION

NENASim Newborn

Xcel

NENASim Newborn Xcel is a realistic neonatal simulator designed for comprehensive training in basic and advanced neonatal life support, enabling healthcare professionals to develop the essential skills required for newborn care.

Representing a healthy baby from 0 to 4 weeks old, the simulator features a life-like appearance and anatomically accurate structures that enhance hands-on learning. **NENASim Newborn Xcel** serves as a valuable educational tool for students and clinical teams, allowing effective practice of newborn assessment, handling, and early intervention techniques.

With realistic anatomy and true-to-life detailing, **NENASim Newborn Xcel** is an ideal solution for training key emergency medical procedures, including airway management, ventilation, and CPR, helping improve confidence and performance in neonatal care settings.

Design philosophy: realism in form and function

Realism is key in our design philosophy!

The delicate structure of a newborn baby is accurately experienced through the simulator's realistic appearance and feel. Made with our unique soft silicone, **NENASim Newborn Xcel** has soft, smooth skin, replicating the feeling of touching a real baby.

- Length: 45cm

- Weight: 2kg

- Sex: Male

- Skin tone:

  Dark   Medium   Light

Airway Management

NENASim Newborn Xcel features realistic anatomy, including the tongue, epiglottis, vocal cords, trachea, and esophagus.

- Placement of multiple oxygen systems: nasal cannula, face masks, etc.
- Oropharyngeal and nasopharyngeal airways
- Orotracheal intubation
- Nasotracheal intubation
- Supraglottic devices

Pulmonary System

With lungs and stomach, **NENASim Newborn Xcel** provides visual feedback on the endotracheal tube location. Adequate ventilation results in chest rise and fall, while esophageal intubation leads to abdominal expansion.

It's also possible to ventilate the simulator using a bag-valve-mask.

The lungs can be individually occluded to simulate a pneumothorax, and bilateral needle decompression can be performed.

Neonatal Resuscitation

With visual anatomical landmarks and realistic compression resistance, **NENASim Newborn Xcel** is an excellent tool for CPR Training.

Umbilical Cord

An umbilical cord can be attached to **NENASim Newborn Xcel.** It features two arteries and one vein, all patent and viable for cannulation.

Real fluids can be injected and then drained.

Intraosseous Access

NENASim Newborn Xcel comes with a replaceable add-on that can be attached to its leg, allowing IO access training without damaging the simulator.

Specifications

Full-body male neonatal patient simulator: 47cm – 3.5kg

Faithful reproduction of a baby's anatomy

Life-like looking with soft, smooth silicon skin

Three options for skin tone

Flexible limbs, back, and neck

Ideal for BLS training

Easy to clean and disinfect

Airway opening maneuvers: head tilt, chin lift, and jaw thrust

Placement of multiple oxygen delivery systems: nasal cannula, face masks, etc.

Realistic anatomy: tongue, epiglottis, vocal cords, trachea, and esophagus

Oropharyngeal and nasopharyngeal airways

Orotracheal and nasotracheal intubation

Supraglottic devices: Laryngeal Mask Airway and Laryngeal Tube Airway

Oral and nasal fiberoptic intubation

Esophageal intubation

Oro- and nasopharyngeal suction

Ventilation with a bag-valve-mask

Realistic chest rise during ventilation

Unilateral chest rise simulating a pneumothorax

Thoracic needle decompression - bilateral

Improper ventilation in the esophagus can lead to stomach inflation

Anatomical landmarks for heart massage

Realistic chest compression resistance

Umbilical cord with two arteries and one vein, all patent and viable for cannulation

Intraosseous insertion on the left or right tibia

*Specifications may be subject to change during development.
Please contact MEDICAL-X for the latest specifications.

**The images shown are for illustration purposes only and
may not be an exact representation of the product.