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Instrument for purchase of stores

Item: Teaching mannequins for newborn resuscitation (preterm and term) and intubation head

Specifications:

Set of mannequins will consist of:

1. Advance Preterm Training Manikin (Premature Anne with SimPad Plus) (Laerdal 295-55101) – 1 No.
2. Term Training Mannequin (Baby/Newborn Anne Mannequin) (Laerdal CAT NO. 050000) – 2 Nos.
3. Neonatal/Infant Intubation Trainer Head (Laerdal CAT. NO. 250-00101) – 1 No.

Advance Preterm Training Manikin (Premature Anne with SimPad Plus)

- It should be a realistically proportioned 25-week preterm model for resuscitation & critical care.
- It should have heart, lung, vocal sounds and cyanosis to facilitate the training in the initiation of proper care and resuscitation of preterm infants.

Airway Features

- Anatomically accurate, realistic airway
- Positive Pressure Ventilation
- Suctioning
- ET tube insertion, Sellick Manoeuvre
- Right main stem intubation
- OG/NG tube insertion

Breathing Features

- Bilateral and unilateral chest rise and fall with mechanical ventilation
- Cyanosis

Breathing Complications

- Unilateral chest movement (right main stem intubation) with mechanical ventilation

Cardiac

- Realistic Compressions

Vascular Access

- Patent, ready to cut umbilicus with venous and arterial access for bolus or infusion
- Simulated blood flashback upon cannulation of umbilical vein
- Peripheral IV access

Physiological Sounds

- Auscultation of lung sounds during ventilation
- Heart sounds
- Vocal sounds

Training scenarios

It should have following training scenarios written by the American Academy of Pediatrics and supports the Neonatal Resuscitation Program™.

- I. Positive-Pressure Ventilation and Continuous Positive Airway Pressure (CPAP)
- II. Positive-Pressure Ventilation and Endotracheal Intubation
- III. Positive-Pressure Ventilation, Endotracheal Intubation, and Chest Compressions
- IV. Positive-Pressure Ventilation, Endotracheal Intubation, Chest Compressions, and Medication
- V. CPAP, Oxygen Management, and Orogastic Tube
- VI. Positive-Pressure Ventilation, CPAP, Intubation, and Surfactant Administration
- VII. Intubation, Chest Compressions and Umbilical Vessel Catheter Placement: Ethics and Care at the End of Life
- VIII. Resuscitation of 25-Week Newborn Twins

Accessories to be supplied with

- Laerdal preterm silicone resuscitator (bag capacity 240 ml) with masks (size 0 & 1) and reservoir bag (600 ml) in compact case - 2
- Laryngoscope with straight blade (Miller 0 / 00)
- ET Tube 2.5 mm (oral and nasal)
- Peripheral IV - 24 G
- NG/OG tube 6 – 6.5 Fr
- Umbilical Catheter 3.5 Fr Arterial, 5 Fr Venous
- Facemask 42 mm
- Advance model with inbuilt battery - 01
- Basic Training Model - 01
- Birthing lubricant
- Airway Lubricant
- Virtual Blood Concentrate
- Umbilical cords 3 Nos,
- 3M 'Kind removal silicone tape'
- 10ml Syringe
- Cap and Blanket
- Tray for the storage of mannequins
- SimPad plus with 8 preloaded NRP scenarios
- User guide in English including important product information, both hard and soft copies including CDs
- Control Unit with 6 NRP scenarios
- Premature Anne Software License with update cable
- Premature Anne Power Cable / Charger
- AC Adapter, USB Cable, wrist strap, Carrying Case

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Training and necessary documents

- The bidder should provide training and necessary documents including suggested learning objectives, scenario set up and preparation, equipment checklist, role play information, proposed correct interventions, suggestive guided reflective questions and a section with clinical points to consider during simulation and debriefing along with the interventions that are logged by the instructor during simulation based training shall be available with each above mentioned scenarios.
- The service provider should have the necessary equipment's recommended by the manufacturer for installation and to carry out preventive maintenance test as per guidelines provided in the service/maintenance manual.

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Warranty

- One year against any manufacturing defect

Term Training Mannequin (Baby/Newborn Anne Mannequin)

- Specifically designed with manikin features that are clinically relevant to acquire the skills in training for neonatal life support
- Educational effective allowing specific neonatal resuscitation skills to be taught individually or in combination with other skills.
- Mannequin represents a full term (40 week), 50th percentile newborn female, measuring 21 inches and weighing 7lbs.
- The airway allows for training in all aspects of newborn airway management, including the use of positive-pressure airway devices, and the placement of ET tubes and LMAs.
- The torso includes functionality to relieve a tension pneumothorax via needle decompression.
- The patent umbilicus has a manually generated pulse and can be assessed, cut and can be catheterized for IV access.
- Features IO access in both legs.

Airway Features

- Positioning the newborn to simulate opening the airway via head tilt, chin lift or jaw thrust
- Positive Pressure Ventilation (BVM, T-Piece resuscitator, or anesthesia bag)
- ET tube intubation
- LMA insertion
- Orogastric tube insertion
- Stomach distension (when ET is misplaced)
- Suctioning (of the nares, nasopharynx, oropharynx, esophagus and the lungs via an ET tube) - Fluids should not be introduced into the airway
- Meconium module for suction removal

Breathing features

- Bilateral and unilateral (with mainstem intubation) chest rise and fall with mechanical ventilation
- Pneumothorax - Needle thoracocentesis left mid axillary (pneumothorax)

Cardiac features

- Manual chest compression at appropriate depth (1/3 AP) and force

Circulation Features

- Manual umbilical pulse

Vascular Access

- Umbilical Vein/ Artery access via patent umbilicus
- IO access in left and right lower leg, tibial tuberosity and medial malleolus

Other Features

- Full articulation

Accessories to be supplied with

- Laerdal pediatric silicone resuscitator (500 ml bag capacity) with term masks (size 0, 1) and reservoir bag (600 ml) in compact case – 2 Nos
- Soft case, lubricant

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Training and necessary documents

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Laerdal Neonatal/infant Intubation Trainer

- Should allow teaching of intubation skills on the newborn baby
- The mannequin should have realistic anatomy of a newborn baby
- Should allow teaching intubation (both oral and nasal)
- Should have facility for Bag-Valve Mask ventilation
- Correct tube placement can be checked by practical inflation tests.

Accessories to be supplied with

- Lung set – neonatal intubation trainer
- Base & cover assembly
- Mannequin lubricant
- Neonatal (small) laryngoscope handles with Miller straight blades (0, 1) – 2 Nos

Training and necessary documents

- The service provider should have the necessary equipment's recommended by the manufacturer for installation and to carry out preventive maintenance test as per guidelines provided in the service/maintenance manual.

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