SimNewB is an interactive simulator, designed by Laerdal with the American Academy of Pediatrics to meet the training requirements of neonatal emergency medicine and resuscitation courses. With realistic newborn traits and lifelike clinical feedback, SimNewB is ideal for training for the specific needs of neonates.

**FEATURES:**

**Airway Features :**
- Anatomically accurate, realistic airway
- ET Tube insertion
- Oral and nasal intubation
- LMA insertion
- Sellick maneuver
- Positive-pressure ventilation
- Right main stem intubation
- Suctioning
- Meconium module for suction removal
- Variable lung compliance
- Gastric tube insertion

**Breathing Features:**
- Spontaneous breathing with variable rate
- Bilateral and unilateral chest rise and fall with mechanical ventilation
- CO2 exhalation
- Normal and abnormal breath sounds
- Pneumothorax
  - Unilateral chest movement with mechanical ventilation
  - Unilateral breath sounds
  - Unilateral needle thoracentesis, mid-axillary
**Circulation:**
- Heart sounds
- Umbilical and brachial pulse
- Blood pressure measured manually by auscultation of Korotkoff sounds
- Pulse palpation detected and logged
- Pulses synchronized with ECG output
- Central cyanosis presentation

**Cardiac:**
- Extensive ECG Library with rates from 0 – 300bpm
- ECG monitoring via 3-lead monitor
- Heart sounds synchronized with the ECG

**Vascular Access:**
- Patent, cuttable umbilicus with venous and arterial access for bolus or infusion
- Simulated blood flashback upon cannulation
- Intraosseous access (bilateral)

**Sounds:**
- Vocal: Grunt breathing, crying, hiccups and others
- Lung: Normal, stridor, pneumonia and others
- Heart: Normal, diastolic murmur, systolic murmur and others

**Other Features:**
- Interchangeable pupils with normal, blown and constricted pupils
- Movement in all four limbs: Limp, Tone, Spontaneous Motion and Seizure