SimNewB® Specs

Airway Features:

- Anatomically accurate, realistic airway
- ET Tube insertion
- Oral and nasal intubation
- LMA insertion
- Sellick maneuver
- Positive-pressure ventilation
- Right mainstem 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
- CO_2 exhalation
- Normal and abnormal breath sounds
- Pneumothorax
  - Unilateral chest movement with mechanical ventilation
  - Unilateral breath sounds
  - Unilateral needle thoracentesis, mid-axillary

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)

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
- Circumoral cyanosis

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

Simulated Patient Monitor (Optional):

- Touch-screen simulated patient monitors provides concise clinical feedback for physiological parameters
- The monitors color screen is highly configurable and provides multiple simulated parameters, each presenting multi-level alarms
- Simulated parameters include Heart rate, ECG, SPO2, Respiration Rate, and more
- Snapshots of 12 lead ECG's can be displayed
- Simulation Patient Monitor available for PC or SimPad operation