HAL® S3005

Five Year Old Pediatric Simulator

- · Simulation Made Easy™
- · Proven HAL® technology
- · Tetherless with wireless communications
- · Fully responsive, even during transport
- · Wireless streaming audio
- · Automatic or instructor control
- · New and improved airway features

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Airway

· Oral and nasal intubation
· Use an ET tube or LMA
· Sensors detect depth of intubation
· Unilateral chest rise with right mainstem intubation
· Multiple upper airway sounds synchronized with breathing

New Airway Features

· Realistic geometry, larger epiglottis and better visualization of vocal cords as well as easy intubation
· Improved chest recoil during CPR
· Lung compliance refined to deliver chest rise when ventilating at 20cm H_2O

Breathing

· Control rate and depth of respiration and observe chest rise
· Ventilations measured and logged
· Gastric distention with excess BVM ventilation
· Select independent left and right lung sounds
· Chest rise and lung sounds are synchronized with selectable breathing patterns
· Accommodates assisted ventilation, including BVM and mechanical support
· Unilateral chest rise and multiple breath sounds

Circulation and Color Change

· Multiple heart sounds, rates and intensities
· Chest compressions are measured and logged
· Blood pressure can be taken using a cuff, palpation, or auscultation
· Korotkoff sounds audible between systolic and diastolic pressures
· Color and vital signs respond to hypoxic events and interventions
· Bilateral carotid, brachial and radial pulses operate continuously
· Pulse strengths vary with blood pressure and pulses are synchronized with ECG
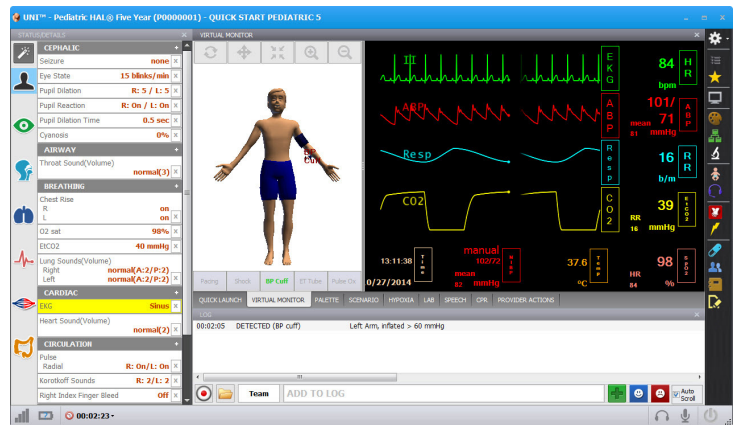
Easy to Use

· Instructor Control
· Software control that is powerful and yet intuitive
· Use our scenarios, modify them or quickly create your own

Active Eyes

· Instructor Control
· Open and close
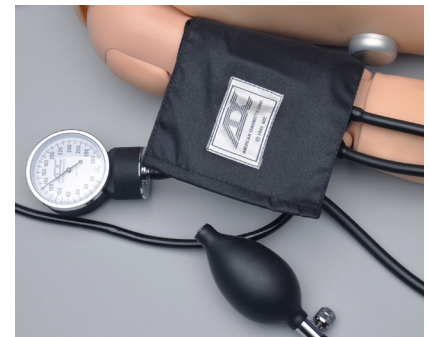· Select blink rate
· Select pupillary responses to light

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· Use our preprogrammed scenarios designed by medical professionals. Modify them or quickly create your own

· Use our library of preprogrammed physiologic states, modify them or specify pediatric HAL's condition using this Details page

· Save each condition as a physiologic state on the palette page

· Control Pediatric HAL using a wireless PC to quickly generate multiple life threatening situations and track the actions of care providers

· Select Pediatric HAL's physiologic states from the palette page and combine them to build a scenario

· Select the time Pediatric HAL is in each state

· Build in delays between states or specify smooth transitions

· When activated Pediatric HAL will progress from one state to the next

· Use stylus control to branch to a different state should the team treat Pediatric HAL incorrectly without stopping the scenario

· Invoke Pediatric HAL's extensive library of voice responses at any time and combine them to facilitate a dialogue

· Actions are logged and time stamped for evaluation and debriefing

Tetherless Simulators - HAL® S3005

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File Sharing
· Provide students with images such as x-rays, CT scans, lab results, or even multimedia presentations as the scenario progress

Log
· Track the actions of up to six care providers using our menu of responses or write a narrative
· Links with Pro+ recording and debriefing system integrating the log with cameras and patient monitors

Defibrillate, Cardiovert and Pace
· Apply real electrodes and AED pads
· Use real EMS equipment
· See electrical interventions on your AED or our monitor ECG
· View ECGs with physiologic variations generated in real-time
· Synchronized with pulses
· Conductive skin regions
· Apply real electrodes

Motion
· Fully responsive even when carried
· Body convulses on command
· Eyes open / close and feature slow or rapid blinking

Hypoxic Modeling
· Color and vital signs respond to hypoxic events and interventions

Sounds
· Extensive speech library
· Heart sounds include a normal heart as well as splits and murmurs
· Respiratory sounds include normal lungs as well as stridor, bronchial, wheezing, pleural friction and crackles
· Bowel sounds

Venous Access
· IV training arms
· IM sites on shoulders and thighs
· Intraosseous access at tibia

Simulator
· Physical size is 5 years of age
· Self-contained respiratory and circulatory functions
· Active eyes
· NG and otic exercises
· Tracheotomy opening
· Interchangeable genitalia
· Enema administration
· Two way wireless communication
· Internal rechargeable power

Control
· Wireless tablet PC with stylus control
· Communication modules are FCC and CE compliant
· Both physiologic modeling and trending
· Comprehensive performance feedback
· Preprogrammed scenarios
· Build your favorite scenarios

Accessories
· 100-240 VAC charger
· Blood pressure cuff
· Instructions
· CDROM tutorial
· Carrying case

Other
· One year limited warranty; extended warranty to three years
· Installation and training services available

HAL® S3005
S3005

Patented; other patents pending

Options

20in All-in-one Touch Screen PC to Display Vital Signs
S3005.001.R2

12in Touch Screen Tablet to Display Vital Signs
S3005.002

Wireless Streaming Audio
S3005.300

Pro+ Recording and Debriefing System
S3005.211

Automatic "Physiologic" Mode
S3005.600
· Responds to caregiver, instructor and pharmacologic intervention
· Pause and resume anytime
· Add meds using drug template