Resuscitation Simulation

for Acute Respiratory Distress Syndrome

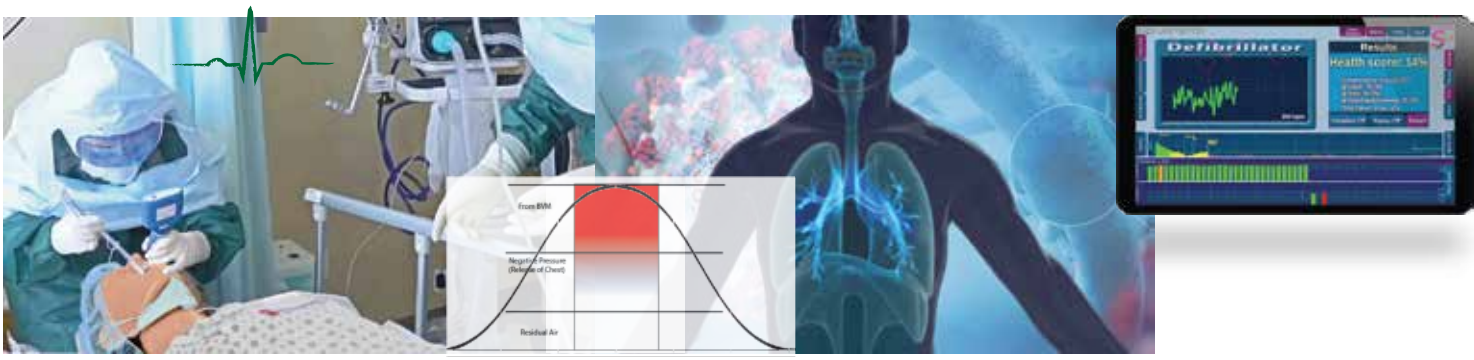
RS RSIM ARDS

Up-Skill Your Staff! Be Prepared for a Covid-19 Surge

Acute Airway Management For Healthcare Professionals

Designed with Input From Those who have Front Line Experience Working With COVID-19 in Initial Outbreak Hotspots Saving Lives in Quarantine Hospitals.

Re-Master Airway Skills and Re-Master IV Skills When Working With New Team Members



Without Control of the Airway There is Nothing

AIRWAY

Best Practice: Know Why and Learn How

- Informed By Front Line Practice
- Basic to Advanced Skills
- Advanced Airway with Cooperation
- Work Well Through Personal Protective Equipment
- Communicating Clearly With Cueing through Masks

TECH

Life-Like Interaction Crucial for ARDS Response

- ONLY AVAILABLE on SmartMan
- Changes in Pressure in Thorax
- Volumes Changed With Pressure
- Highest Fidelity Real Time Feedback
- Instant Performance Results & Analysis

VENTS — BVM Ventilation Skills: Practice with chest resistance and accurate airflow. Squeeze the Bag Correctly, with Accurate Feedback to Improve Volume, Rate and Interval.

I. V. — Upskill staff so they are confident and competent to assist in ICU. This extends the reach of your existing ICU specialists and allows you to effectively deal with more patients.

ET Tube — Maximize Efficiency by Practicing Timing, Placing and Correct Cuffing. Perform While Chest is Being Compressed. Real Volume With Real Air Movement With Positive and Negative Airway Pressures.

Team — Leading a Team of Professionals Who May Not Know Each Other. Explicit Training on how to Deliver Cues and Respond to Cues Effectively. Feedback Loops for Coping with PPE, Masks and A Noisy Environment.

As a Professional You Already Know What to Do!
Now, Perfect Your Skills With SmartMan's State of the Art Simulator Training Simulator.

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ARDS Training — Airway Skills & Team Cooperation

Features Sheet 1 of 2

RS RSIM ARDS

High Quality Feedback

High Accuracy Is Demanded To Correctly Perfect Airway Skills. Our ARDS System Has Advanced Sensors And Unique Features Specially Designed to Improve Airway Skills

Accurate Air Movement

- **Basic and Advanced Skills Included**
- **Tidal Movement Created by Chest Movement**
- **Pressures in Thorax Create Realistic Air Movement**
- **Interaction of Chest Compressions & Ventilations**
- **Realistic Physical Feel of Air Movement**
- **Digital Real Time Feedback of Airflow**
- **Assisted Ventilation Activity with feedback on Volume and Rate of Air Flow**
- **Accurate Interval Between Ventilations**

Calibrated Airflow

All SmartMan Airways are Calibrated to Measure the Correct Volumes of Air and the Correct Rate that Air Flows Into the Lungs Ensuring Development of Muscle Memory For Correct Performance.

Assisted Airway

Assisted Airway or BLS Airway is Required in Many Situations. For example, Acute Respiratory Arrest Conscious Sedation, Drowning, Drug Overdose, and Pneumonia, .

- Natural Chest Resistance
- Tidal Flow in Real Time
- Release / Non-Release of BVM
- Inhalation Rate Reported to 0.01 seconds
- Picks Up Puffs During Squeeze

Advanced Airway

Intubation or Advanced Airway Takes Practice and with COVID-19 it is Being Recommended that Experience Anaesthesiologist, if available, Should do this. We Break Down the Skills to Allow Mastery in Smaller Parts First.

A Special Build with Special Sensors Create a More Realistic Responsive Feel. Feed back is in Real Time and Data is Stored So It Can be Reviewed.

POSITIVE-NEGATIVE PRESSURE AIRFLOW

ATFIS® *The Only System with Life-Like Interactive Air Movement As The Chest Moves*

- This Features Provides Best Practice for Realistic Movement of Air During Advanced Airway Training
- True-to-Life Feel, Realistic Sound, Air Movement in Response to Pressures in Thorax
- Feedback to improve Timing and Volume Delivery
- Learn to coordinate volume flow with pressure changes
- Feel and Hear Misdiagnosed 'bucking-the-tube'

ICU Up-Skill I.V. Practice

- Insert Needles / Canulas
- Infusion of Fluids / Medications
- Practice Blood Sampling
- 3 Veins (2 with "y" Branches)
- Colour Change Shows
- 1 Artery (Self Healing)
- Flexible Hand
- Swivel of Elbow Joint
- Replacement Skins Available

Can be Used As a Stand Alone IV Practice Station

Connects to Manikin For Practice As Procedures Are Ongoing and Provides for Check of Radial Pulse

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Features Sheet 2 of 2

RS RSIM ARDS

SmartMan has the Only Positive-Negative Airflow for Life-Like Airway Practice
Built for Professionals Responding to Acute Respiratory Distress Syndrome

Advanced Airway (continued)

Intubation

How to Establish An Advanced Airway

- Correct Head Position
- Proper Landmarks
- Verification of Proper Placement
- Verification Cuff is Holding Correctly

How to Establish An Advanced Airway As Chest Compressions Are Ongoing

- Dealing With Overall Movement
- Dealing with Landmarks With Movement
- Dealing with Air Expelled From Lungs

Ventilation With An Advanced Airway in Place When Chest Compressions Are Ongoing

To Practice this Correctly Requires SmartMan's Special Responsive Features

- 2-Way Interactive Air Flow
- Real Patient Volumes
- Interaction With Movement of the Chest
- Physical Feel & Feedback of Air Movement
- Volumes & Pressures Include Air Movement Caused By Movement of the Chest
- Learn How to Avoid the Suctioning When Ventilating During Chest Compressions
- See the Effect of Quality Performance of Skills and Better Timing on Cerebral Perfusion

Team Cooperation For ARDS

The Potential For Contamination Changes Everything

- Procedures & Protocols Related to the Science
- Leader & Responder Roles Explicitly Practiced
- Team Dynamics and Movement of Responders
- Integration of Training with Simulator & Software
- Hands-On Practice for 3 to 6 Person Code
- Easy Integration with Existing Code
- In-Depth Debriefing Report as Basis for Long Term Benchmarks
- Analysis in Terms of Patient Condition

Team in PPE, Leadership & ARDS

Team Leader and Other Roles While in PPE

- Strategies to Make Communication Clear
- Reinforcing Actions for Questioning & Confirming with Hands Signs
- Physical Signs to Indicate Movements
- Changed Closed Loop Communication
- Dealing with Team Members Who Expect Different Protocols

Easy to Integrate With Use of Your Real Defibrillator/Monitor to Interpret Rhythms and Deliver a Shock During a Resuscitation Scenario

Acute Care

- Manual Ventilation Practice
- Advanced Airway Placement with Timing, Efficiency and Testing of Cuff
- Assisted Ventilation Then Transition to an Advanced Airway

Resuscitation

- Work As A Team with Specialists Who You Might not know
- Interactive Feedback on How Well You Cooperated
- Real Running Time for Patient's Response

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