

Pediatric Emergency Care VR Simulation Training

First responder pediatric emergencies are challenging. Compared to adults, children have anatomical and physiological differences that mask early indicators of severe illness. Consequently, making it difficult to recognize. Additionally, resuscitation interventions are age and weight dependent. Unless providers are practicing pediatric assessment and resuscitation frequently, the nuance and critical skill sets needed to effectively assess and treat a child will decay over time.

This is why we've developed the first VR simulation solution for pediatric emergency training. Health Scholars' VR simulation training provides a risk-free environment for first responders to practice recognition of severe illness and resuscitation management, effectively scaling deliberate practice. First responders can now practice pediatric care anytime, anywhere, and as often as needed.

After having refreshed pediatric emergency assessments, first responders will practice the role of team lead and care for acutely ill pediatric patients in multiple home settings. Learners evaluate infants and children to identify underlying conditions and intervene with pediatric resuscitation workflows in accordance with ILCOR Guidelines.

VR is ideal for training on the pediatric assessment triangle (PAT) and pediatric resuscitation given that real-life exposures to critical pediatric physical findings are highly infrequent. Our VR training recreates the pertinent findings in a real-to-life patient and graphically teaches the association of PAT patterns with life-threatening health conditions. Additionally, providing first responders key communication and resuscitation skills in a risk-free environment.

Developed in partnership with AAP

American Academy of Pediatrics

DEDICATED TO THE HEALTH OF ALL CHILDREN®



AT-A-GLANCE:

First Responders need to recognize the subtle indicators of severe illness in infants and children without delay and initiate stabilization or CPR when indicated.

Accurate and timely pediatric resuscitation requires an always-on readiness for applying the principles of the pediatric assessment triangle and applying the correct resuscitation management. PAT is integral to pediatric acute care and has become a cornerstone for the prehospital pediatric education pathways endorsed by the American Academy of Pediatrics.

Our Pediatric Emergency Care VR Simulation Training contains four in-home VR scenarios focused on critical pediatric assessment and stabilization. This VR training is specifically developed for first responders and includes the following assessment and management content:

- Respiratory Distress from asthma and albuterol precipitated stable SVT.
- CNS/Metabolic and cardiopulmonary failure from opiate overdose
- Viral myocarditis with Hypovolemic Shock from diarrhea, CNS/Metabolic impairment from hypoglycemia and Unstable Wide Complex Tachycardia.
- Respiratory failure and distributive shock from pneumonia leading to cardiopulmonary arrest.

Pediatric Emergency Care Product Overview

CAPABILITIES

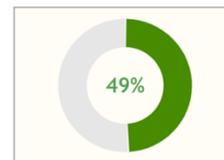
- Realistically models nuanced pediatric resuscitation scenarios and physical findings in a low-risk environment.
- Configurable dosages and voltage based on your organization's standards.
- Utilizes adaptive learning technology to instruct, evaluate and refine pediatric resuscitation proficiencies based on provider performance.
- Provides learners a readiness score, by assessing core competencies throughout the simulation. Assess readiness at individual, team, and organization level.
- Features Health Scholars' AI-Enabled voice technology.
- Ultra-realistic in-home environments specific to first responders.
- 24/7 accessibility and schedule training software to incentivize repeated practice.
- Turnkey implementation and seamlessly scaled across small and large organizations.
- Available on the Oculus Quest 2.



BENEFITS

- Learners have the ability to make mistakes and learn critical pediatric resuscitation skills within a zero-risk environment, reducing error once back in the field.
- Ensure your providers are retaining critical training. VR learners are 275% more confident to apply skills after training. (The VR Advantage, 2020)
- Gain peace of mind as your learners build vital teamwork and management skills directly transferable to the field.
- Save your organization crucial training budget. Cost 83% less than traditional mannequin simulation training. (Katz, 2020)
- Reduces time providers are out of service to train and can be completed during down time.
- Build confidence in your organization's Pediatric readiness and easily find and address skill gaps.
- Provides .5 CAPCE-approved CE continuing education hours per quarter, or 2 hours/year.

OVERALL READINESS



READINESS DETAIL (16 PARTICIPANTS FROM 2020-08-18 TO 2020-08-18)

