HEALTH SCHOLARS | Pediatric Emergency Assessment™

Be Ready with Virtual Reality Simulation Training

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 frequently, the nuance and critical skill sets needed to effectively assess and treat a child will decay over time.

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

VR is ideal for training on the pediatric assessment triangle (PAT) 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, our PAT simulation training graphically reenacts the management priorities for each category of illness.

"Virtual Reality from Health Scholars has helped put new levels of pediatric care assessment directly into the hands and minds of EMS professionals across Maine. This partnership between Health Scholars and the Maine EMS-C program is allowing the children of Maine to benefit from technology, improved education, and care across the pre-hospital care spectrum."
-Marc Minkler, Program Manager, Maine EMS

Developed in partnership with the AAP

American Academy of Pediatrics
DEDICATED TO THE HEALTH OF ALL CHILDREN®

AT-A-GLANCE:

Pre- and In-hospital providers 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 assessment requires an always-on readiness for applying the principles of the pediatric assessment triangle. 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 Assessment VR Simulation Training contains a series of in-home VR scenarios focused on critical pediatric assessment and stabilization. This VR training was developed for all providers and includes the following assessment and management content:

1. Abnormal Work of Breathing
2. Abnormal Circulation to Skin
3. Abnormal Appearance
4. Normal & Abnormal Vitals by Age
5. Respiratory Distress
6. Respiratory Failure
7. Cardiopulmonary Failure
8. Compensated Shock
9. Decompensated Shock
10. CNS/Metabolic Disorders
11. Stable Patient

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Pediatric Emergency Assessment Product Overview

CAPABILITIES

- Realistically models nuanced pediatric scenarios and physical findings on racially diverse patients in a low-risk environment.
- Utilizes adaptive learning technology to instruct, evaluate and refine PAT proficiencies based on provider performance.
- Provides learners a readiness score, determined by assessing core competencies throughout the simulation. Assess readiness at individual, team and organization level.
- Features Health Scholars' AI-Enabled voice technology.
- Ultra-realistic environment.
- 24/7 accessibility and schedule training software to incentivize repeated practice.
- Delivers in application micro-debriefs to reinforce learning gains.
- Turnkey implementation and seamlessly scaled across small and large organizations.
- Available on the Oculus Quest 2

BENEFITS

- Learners build confidence and learn critical diagnostic skills within a zero-risk environment, reducing error and stress once back in the field.
- Ensures your providers are retaining critical training. VR learners are 275% more confident to apply skills after training. (The VR Advantage, 2020)
- Have confidence in your organization's pediatric readiness.
- Save your organization crucial training budget. Cost 83% less than traditional mannequin simulation training. (Katz, 2020)
- Build confidence in your organization's pediatric readiness and easily find and address skill gaps
- Reduce overtime costs and time providers are out of service to train, training can be completed during down time.
- Provides .5 CAPCE-approved CE continuing education hours per quarter, or 2 hours/year