
MedVision
为生命而创新
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Arthur

Patient Simulator

儿科患者模拟器

MedVision

Traning for Acute Pediatric Emergencies

儿科急症培训

www.medvisiongroup.com

Preparing for Pediatric Emergencies
儿科应急准备

Arthur儿科患者模拟器

When Caring for a young child ,communication skill are as critical as the technical skills required to manage pediatric emergencies .

Authur has been designed to support those working in child health to effectively communicate assess ,diagnose and treat young patients in a diverse range of critical scenarios and in a variety of clinical settins

在照顾幼儿时，沟通技巧和儿科应急所需的技能同等重要。

Arthur旨在帮助儿童医护人员在各种紧急情形和临床中对儿童开展有 效交流、评估、诊断和治疗。

4 Patient Simulator
患者模拟器

- Realistic airway
- Real Mechanical ventilator compatibility
- Real devices can be used for ECG ,Pulse monitioring ,defibrilation and BP monitoring
- Circothyrotomy,needle decompression of tension pneumothorax
- CPR with comprehensive performancce assesement
- 逼真的气道
- 兼容真实的机械呼吸机
- 支持使用真实的设备生成心电图、进行脉搏监测、心脏除颤和血 压监测
- 环甲膜切开术、张力性气胸针刺减压
- 心肺复苏术综合性能评估

Arthur representas a 5-8 year old boy that simulates a wide range of conditions ,From a healthy talking child to being unresponsive with no vital signs,
Arthur provides meaningful learning experiences through his extensive range of features

Arthur代表一名5-8岁的男孩，可模拟各类情形。从健康、会说话的孩子到没有生命体征无反应， Arthur的各类特征可提供有意义的学习经验。

Basic to advanced patient examinations

From pulse checks and Sp02 monitoring to checking pupillary light eflexes for neu ological assessment, Arthu all ows fo l a comp lete patient examination

基础到高级的患者检查

从脉搏检测和血氧饱和度检测，到瞳孔光感反射的神经学评估，Arthur支持对患者的完整检查。

Interactive eyes

- Blinking: open, half-open or closed
- Pupillary responses: normal or absent esponse

左右眼

- 眨眼：睁开、半睁或闭眼
- 瞳孔反应：正常或无反应

Resuscitation Scenarios

Realistic chest compressions: rate, depth, hands placement and ventilation volume. Arthur's activity log will capture all aspects of performance to ensure compliance with Guidelines

复苏场景

逼真的胸外按压：按压速度、深度、手掌位置和通气量。Arthur的活动日志能获取所有性能数据，确保符合临床 指南。

Drug Administration

- IV drug recognition, in ected volume and speed re cognition
- Pre-installed catheter

药物注射

- 静脉药物识别、注射量和速度识别
- 预置导管

Integrating ALS into Emergency Scenarios

Inco porating essential skills including dicult airway, IV administration, 10 infusions, intubation and hypoxia

将高级生命支持（ALS） 应用到紧急情形中

将困难气道管理、静脉给药、骨髓腔内输液、插管和缺氧应对等 基本技能纳入应急情形中。

Available in severa l skin tones

多种肤色可供选择

6 Patient Simulator
患者模拟器

- A range of respiratory complications
- Realistic unilateral and bilateral chest rise and fall
- Spontaneous breathing
- Mechanical ventilation supporting real devices or our proprietory virtual anesthesia machine
- Programmable lung resistance and compliance
- Heart, lung (posterior & anterior) and bowel sounds

- 一系列呼吸道并发症
- 逼真的单侧和双侧胸部起伏
- 自主呼吸
- 支持真实设备的机械通气或我们专有的虚拟麻醉机
- 支持设置肺阻力和用药依从性
- 心、肺（后、前）和肠鸣音

The only patient simulator to include comprehensive training in ventilation management
唯一包括气路管理综合培训的患者模拟器

Use your own ventilators 用自己的医疗器械进行模拟训练

Arthur can be used with your institution's own real mechanical ventilators. Our propriety software makes it possible to set compliance and resistance for a complete clinical case.
Pressure/ volume control, pressure support.

or our virtual anesthesia machine

Our virtual ventilator can be used in con unction with Arthur or as a stand-alone training device Trainees will learn the full functionality and application of ventilation equipment

当模拟训练可以结合使用自己机 构的医疗设备时，学习的益处则会凸显， 压力/体积控制，压力支持。
或者我们的虚拟麻醉机
我们的虚拟设备可以与Arthur一起使用，也可以作为一个独立的培训设备，学员将学习设备的全部功能和应用

Pediatric scenarios to challenge clinical decision- making and team performance实时运行场景，挑战快速决策技能

Arthur supports real-life pediatric emergency scenarios in a safe and realistic inter-disciplinary team environment. The instructor can create a diverse range of scenarios where learning to communicate effectively and respond as a team are essential to impact patient outcomes

Arthur 支持现实生活中的儿科急诊场景，在一个安全和现实的跨学科团队环境。教师可以创建各种各样的场景，学习有效沟通和响应作为一个团队对影响患者的结果是必不可少的

Let the software do the work...

让软件来发挥作用...

The software solutions behind our simulator platforms follow a simple mantra: make it easy, make it reliable and make it do whatever the instructor wants!

我们模拟器平台的软件解决方案遵循一个简单的口头禅：搭建简单、 可靠的模拟平台，实现讲师全方位需求！

Our intuitaive software is so easy to use, you can run Arthur's on the fly and capture learning opportunities in the moment - all in a risk-free environment!

我们的软件设计直观，操作便捷，您可在无风险的 环境中实时运行该模拟器，实时学习！

Alternatively, you can create your own scenarios to cover specific teaching points and learning objectives unique to your training programs.

您也可自创场景，覆盖培训中特定的知识点和学习 目标。

Authur 's range of pre-programmed patient states and scenarios are also available to ease your busy workload.

Arthur 的一系列预编程的病人状态和场景也可以缓解你繁忙的工作。

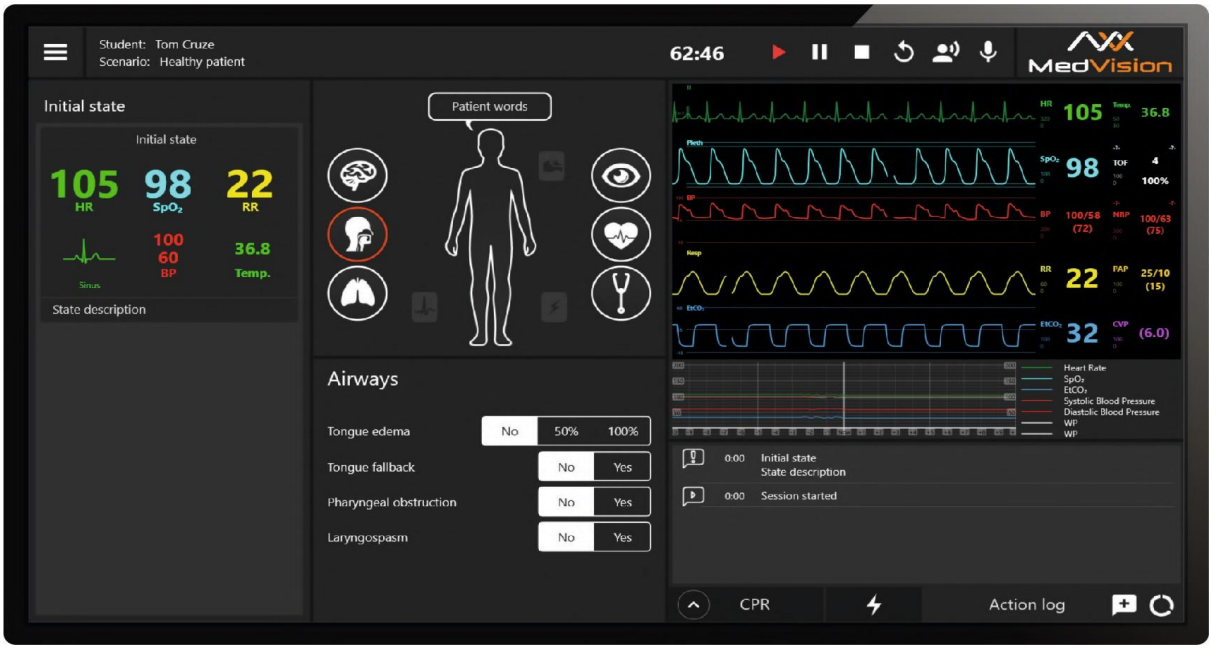
Scenario Builder 场景构建器

Creating scenarios has never been this easy! Highly flexible in its operation, our scenario builder software allows you to create simple to more complex patient cases through its touchscreen 'drag and drop' capability.

创建场景从来没有这么容易！我们的场景构建器 软件操作灵活，通过触摸屏的"拖放"功能，您可以 创建从简单到复杂的患者病例。

Drop in, Slide to Sequence and Easy Adjustment of patient events and physiological parameters, make it possible to fully customize your programs for trainees to acquire the required competencies.

添加、滑动并轻松调整患者事件和生理参数的顺序， 可由您为受训者自定义设置项目，让其掌握所需的 技能。



Instructor Tablet 讲师平板

Our Instructor Tablet with its quality touch screen makes navigation between windows and menus a totally seamless experience.

Of course, it has all the functionality you would expect from an instructor tablet: automated and manual scenario modes; easy selection of patient states and themes; synchronized vital signs with the patient monitor; slider controls for nuanced changes to the patient's condition… but it's the intuitiveness of the user interface that is the real game-changer here. From 'pick-up-and-play' to running complex scenarios, it really is that simple.

我们的讲师平板，配有高分辨率触摸屏，提供导航窗口和菜单之间无缝切换的用户体验。

当然，它具备讲师平板电脑的所有功能：自动和手动场景模式；轻松选择患者状态和主题；与患者监护仪 同步生命体征；通过滑块控制实现对患者病情的细微变化……但用户界面的直观设计才是该平板的一大特 色。 从'选取-播放'到运行复杂的场景，真的就是这么简单。

Scenarios... create your own or run on the fly

场景...自创场景或实时运行

Patient Monitor 患者监护仪

Our touchscreen patient monitor displays vital signs with a familiar look and functionality typical of its real counterparts.

It is fully customizable and the operator can simply select and display vital signs most appropriate to the patient's clinical case.

A novel feature of our patient monitor is the real-time CPR performance display, which can be employed during cardiac arrest scenarios. Feedback on the quality of CPR: rate, depth, release and ventilation supports compliance with Guidelines.

A virtual manual defibrillator is also available for cardiac arrest and cardioversion events.

我们的触摸屏患者监视仪会显示患者的生命体征， 其外观和功能特性与真实的监视器无异。

该仪器支持自定义设置，操作者可轻松选择和 显示最符合患者临床情形的生命体征。

我们的患者监护仪的一项全新功能是实时显 示心肺复苏术的性能指标，可在心脏骤停的 情况下使用。对心肺复苏术质量的反馈：按压速率、按压深度、释放和通气符合临床指南规定。

虚拟手动除颤器也可用于心脏骤停和复律。

Debrief Viewer 复盘查看器

The debrief is arguably the most important element of the simulation exercise, which is why we have put careful attention to the features within our Debrief Viewer.

复盘可以说是模拟练习中最重要的元素，因此我们 要认真了解复盘查看器中的各项功能。

Our debrief software provides the instructor with unprecedented flexibility in its operation. Whether you review the session from start to finish or jump to time-stamped events, we have made it easy to find and access meaningful moments within the simulation with full patient data to ensure the best possible learning outcomes.

我们的复盘软件为教师提供了前所未有的操作环境。无论您是从开始回顾课程，还是跳转到有时间戳的事件，您都可以轻松找到并获取模拟中有意义的时刻，并且有完整的患者数据，以确保最佳的学习效果。

CPR performance metrics are also available at the touch of a button.

只要按一下按钮，您就可轻松获取心肺复苏术的性能指标。

The integrated action log captures all trainee records and performance data.

集成的行动日志记录着所有受训人员对操作记录和 表现数据。

Arthur's Action Log captures performance data from the scenario to allow for a quality debrief and reflective learning.
Arthur
行动日志（Action Log）可获取真实场景中的 性能数据，支持高 质量复盘和反思学习。

Features

Airway

- Realistic airway
- Supraglottic airway device support
- Head and jaw mobility
- Orotracheal and nasotracheal intubation
- Laryngeal mask airway insertion
- Intubation sensor
- Pulmonary aspiration
- Cricoid pressure
- Positive pressure ventilation
- Dynamic airway resistance
- Neck hyperextension
- Airways obstruction
- Esophageal Intubation
- Feeding tube insertion
- Bag valve mask (BVM)
- Cyanosis and acrocyanosis
- Chest rise and fall
- Bilateral lung resistance

Breathing

- Spontaneous breathing
- Respiratory rate is synchronized with vital parameters on the bedside monitor
- Programmable respiratory patterns
- Mechanical ventilation
- PEEP (up to 20cm H2O)
- Airways synced to the respiratory rate
- Variable compliance
- Variable bronchi resistance
- Needle decompression with realistic feedback

Auscultation

- High-fidelity heart, lung, and bowel sounds
- Korotkoff sounds auscultation while monitoring blood pressure
- Programmable bilateral chest rise and fall, synced with breathing

Neurology

- Convulsions
- Programmable blinking
- Programmable pupils

Circulation

- Rich library of ECG rhythms
- HR0-320
- Real ECG electrodes
- Accurate landmarks for chest compression performance point finding
- Chest compression
- Defibrillation, cardioversion and cardiac pacing using real devices
- Correct paddle placement
- Defibrillation in manual and automatic modes
- Successful compressions are registered and affect the HR and ECG
- Defibrillation, cardioversion and cardiac pacing using real devices
- Cyanosis
- Variable pulse strength with activity log

CPR

- Realistic chest compressions
- Automatic activity log, displaying all user actions
- Depth, frequency, hands placement assessment and log
- Ventilation volume
- Printable detailed CPR assessment

Vascular access

- Intravenous injections with automatic drugs recognition (pre-installed catheter)
- Intraosseous access (tibia, bilateral)

Other features

- Vocal sounds
- Speech (preloaded phrases or instructor's microphone)
- Pre-installed themes, scenarios, programs
- Realistic bone structure, palpable ribs

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特点

气道

- 逼真的气道
- 声门上气道装置
- 头颌活动度
- 经气管和鼻气管插管
- 喉罩气道插入术
- 插管传感器
- 肺吸入
- 环状软骨压迫法
- 正压通气
- 动态气道压力下气道阻力
- 颈部过伸
- 气道阻塞
- 食管插管
- 喂食管插管
- 袋阀式面罩
- 紫绀和手足发绀
- 胸部起伏
- 双肺阻力
- 气管切开术

呼吸

- 自主呼吸
- 呼吸频率与床边监护仪上的重要参数同步
- 可程控呼吸模式
  - 机械通气（辅助/控制通气、同步间歇指令通气、持续气道正压通气、压力控制通气、压力支持通气、鼻间歇正压通气）
- 呼气末正压通气（至20cm H2O）
- 气道与呼吸频率同步
- 药物依从性可变
- 支气管阻力可变
- 针刺减压，真实反馈
- 呼气末二氧化碳的真实传感器（可选）

听诊

- 高保真心、肺、肠鸣音
- 柯氏音法测量血压
- 可程控的双侧胸部起伏与呼吸同步

神经病学

- 抽搐
- 可程控眨眼
- 可程控瞳孔

循环

- 丰富的心电节律库
- 心率 0-320
- 真实的心电电极
- 确定有效胸外按压的精确标志点
- 胸外按压
- 使用真实设备进行心脏除颤、复律和起搏
- 电极板正确放置
- 手动和自动模式下的心脏除颤
- 成功的胸外按压会被记录，并影响心率和心电图
- 使用真实设备进行心脏除颤、复律和起搏
- 发绀
- 可变脉冲强度与活动日志

心肺复苏术

- 逼真的胸外按压
- 自动记录活动日志，显示所有用户操作
- 深度、频率、手放置评估和日志
- 通气量
- 手动配置心肺复苏方案
- 可打印详细记录的心肺复苏评估

血管通路

- 静脉注射药物自动识别（预置导管）
- 骨内通路（胫骨、双侧）

其他特征

- 可发声
- 能讲话（预先加载的短语或通过讲师的麦克风讲话）
- 预置的主题、场景、程序
- 逼真的骨骼结构，可触及的肋骨

服务

我们知道您在教育项目上做出了巨大的投资，因此我们设计了充分的服务解决方案，从选择正确的模拟器到将其完全集成到您的模拟项目中，我们在每一个步骤都提供了帮助。

无论是产品安装、预防性维护、故障排除还是维修，我们的团队都将帮助您优化模拟器的全部功能，帮助您高效地实现项目的目标。

有关我们服务方案的进一步信息，请联系您的区域代表。

联系我们

请发送电子邮件与当地区域代表联系：
poyton@poyton.cn

作为一家国际公司，**MedVision**一直致力于通过模拟促进医疗保健领域的优质教育发展。我们利用创新设计和尖端技术打造各种模拟器，包括成人、儿童、新生儿和手术模拟器。欲了解更多关于我们产品的信息，请联系您当地的区域代表。

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