
MedVision
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Mia
新生儿模拟器
Patient Simulator

Training for acute Neonatal Emergencies
新生儿紧急情况培训

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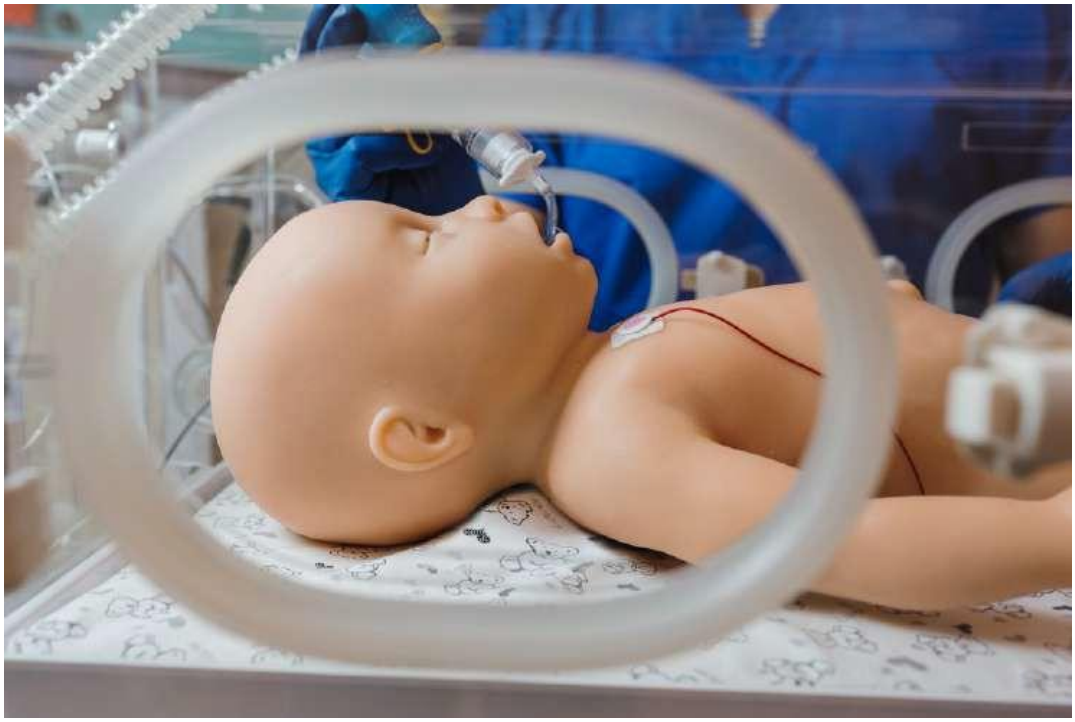
Preparing for time-critical neonatal emergencies
时间紧迫的新生儿应急准备



Mia新生儿模拟器

Mia is a state-of-the-art newborn simulator designed to meet the challenges of specialist training in neonatal care.

From basic assessment to critical thinking skills in emergency scenarios, Mia will enable profound learning experiences that are transferable to clinical practice promoting safer patient care and improved outcomes.

One of the benefits of Mia is that you can use as both a newborn and an infant.

Mia是最先进的新生儿模拟器，旨在应对新生儿护理专业培训中的挑 战。

从基本评估到紧急情况中的批判思维技能，Mia能使深刻的学习经验 转移到临床实践中，为患者带来更安全、更优质的护理体验。

Mia的优点之一在于它既可作为新生儿也可作为婴儿。

Mia的行动日志可获取所有 性能数据，支持有组织的、 高质量复盘和反思学习。

Band aids, moulage... Mia's skin can be easily cleaned to as good as new.

除颤器垫、创可贴、印模...Mia的皮肤易清洁，清洁后像新的一样。

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Neonatal Resuscitation

Realistic resuscitation skills practice supports clinical guidelines and protocols. Chest compressions, ventilation with a bag valve mask (BVM), airway adjuncts and mechanical ventilation.

新生儿复苏

逼真的复苏技能训练遵循临床指南和方案。 支持胸外按压、袋阀式面罩通气、气道附件和 机械通气。

Difficult Airway Management

Can't intubate, can't ventilate! The anatomically correct, realistic feel and durable design of Mia's airway allows trainees to hone their airway management skills in advanced neonatal emergency scenarios.

困难气道管理

无法插管，无法通气！ MIA的气道设计符合解剖 学结构，逼真且耐用，能用于培训新生儿紧急情 况中的气道管理技能。

Available in several skin tones
多种肤色可供选择

In-situ and 'Just in time' training

The wireless design of Mia and her extensive battery life (5-6 hours) enables in-situ simulation training to take place in the NICU and will help to overcome challenges in training schedules, enhance performance in new teams and provide an opportunity to practice rare emergency scenarios just before patient admissions.

原地和'及时'培训

Mia的无线设计及其优异的电池寿 命（5-6小时）能实现在新生儿重 症监护室中开展现场模拟训练，有助于克服训练日程中的挑战， 提高新建团队的表现，提供住院 前练习罕见紧急情况的机会。

Basic Assessment of the Newborn
新生儿基本评估

Mia allows for many of the checks required in the basic physical assessment of the newborn, including:

Measurements

- Head & abdominal circumference
- Length
- Vital signs including pulse and breathing rate

Physical Exam

- General appearance
- Head and Neck –head shape, fontanelles and clavicles
- Auscultation – heart, lung and bowel sounds
- Bilateral chest rise and fall synced with breathing
- Correct movement of the arms and legs – realistic bone structure, palpable ribs, knee caps and many more

Neurological Assessment

- Convulsions
- Programmable blinking
- Programmable pupils
- Programmable muscle tone: active, decreased, hypotonia, lacking
- Programmable, palpable fontanelle
- Sounds: crying, screaming, coughing, moaning, grunts

Mia可进行多项新生儿基本身体评估检查，包括：

测量

- 头腹围
- 长度
- 生命体征，包括脉搏和呼吸频率

体检

- 一般外观
- 头颈-头形、囟门和锁骨
- 听诊-心、肺、肠鸣音
- 双侧胸部起伏与呼吸同步
- 手臂和腿正确运动-逼真的骨骼结构、可触及的 肋骨、膝盖骨等

神经学评估

- 抽搐
- 可程控眨眼
- 可程控瞳孔
- 可程控肌张力：活跃、减退、低下、缺乏
- 可程控、可触及的囟门
- 声音：哭泣、尖叫、咳嗽、呻吟、咕噜声

Measuring 21.5”/55cm and weighing 9lbs/4kg, Mia can facilitate many emergency scenarios simulating a newborn to a 28-week old infant.
Mia身高21.5英寸/55厘米，重9磅/4公斤，可用于模拟从新生儿到28周大的 婴儿的多种紧急情况。

Simulation training with your own medical devices
用自己的医疗器械进行模拟训练

When simulation training can incorporate the use of your own medical devices, the learning benefits are highly significant in transferring skills to real patient care. ECG, defibrillation, pacing, capnography, mechanical ventilator with di erent modes. (A/C, SIMV, PCV, PSV, NIPPV, setting PEEP values up to 20 cmH2O)

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，可在真实的患者护理中 实现技能迁移。心电图、心脏除 颤、起搏、二氧化碳图、多种模 式的机械呼吸机。（辅助/控制通 气、同步间歇指令通气、压力控 制通气、压力支持通气、鼻间歇 正压通气，将呼气末正压通气值 设置为20 cmH2O）

Run scenarios on the fly to challenge quick decision-making skills

实时运行场景，挑战快速决策技能

Mia supports real-life infant 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 paramount to improve outcomes.

Mia软件设计易于操作，界面直观，支持实时更改方案参数，来检测紧急情况中做出的临床决策。 Mia预先编程的患者状态和随时可运行的场景也可帮助节省您在模拟程序中的准备时间。

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 Mia on the fly and capture learning opportunities in the moment - all in a risk-free environment!

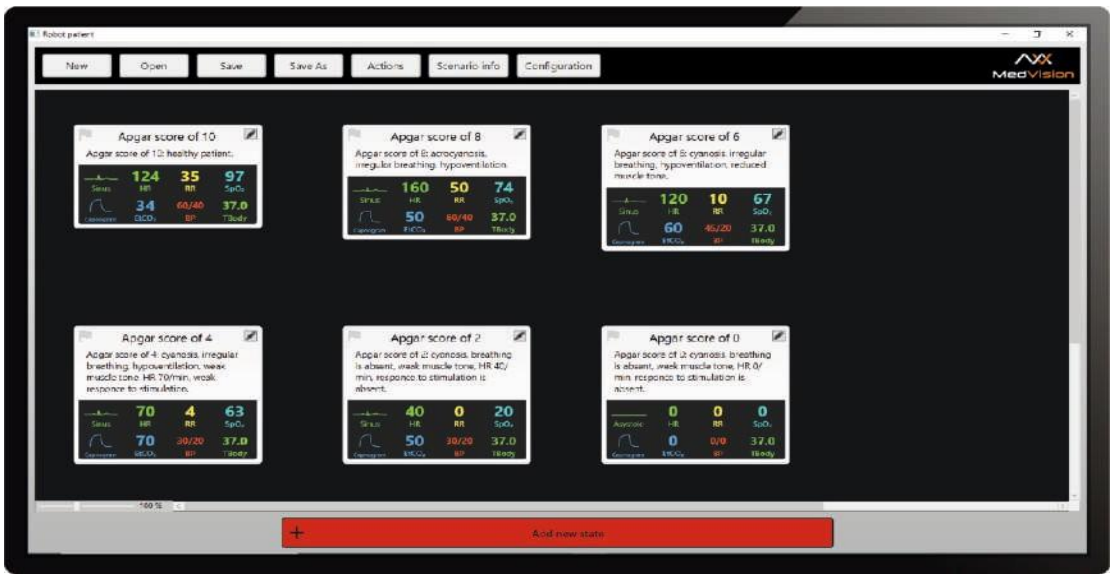
我们的软件设计直观，操作便捷，您可在无风险的 环境中实时运行该模拟器，实时学习！

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。

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

Mia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。



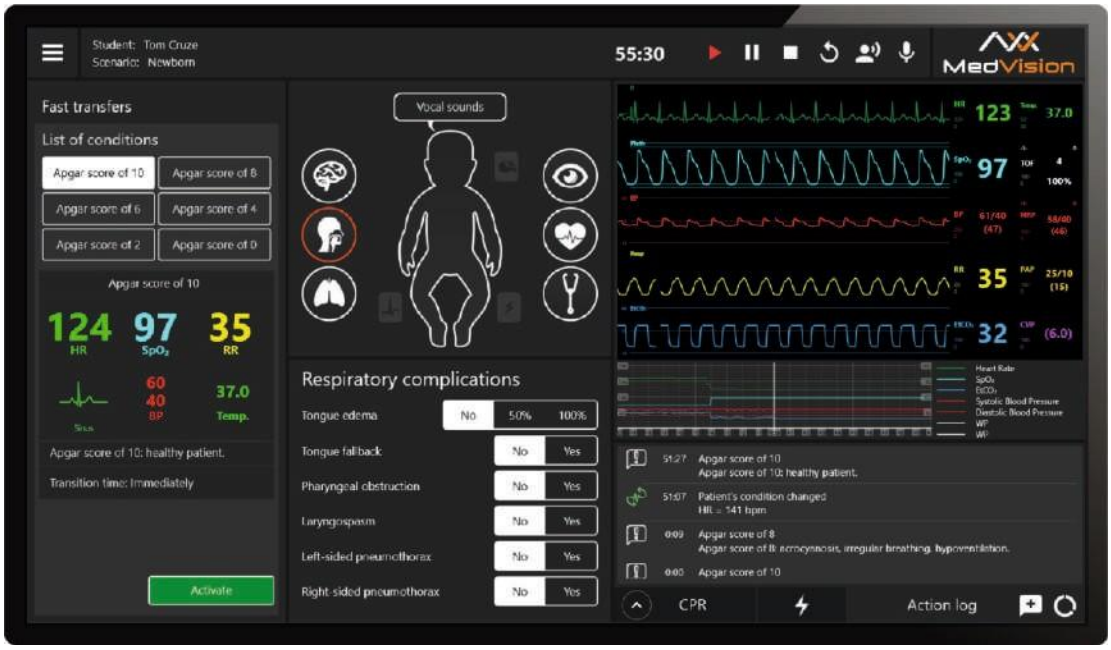
Scenario Builder 场景构建器

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.

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.

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。

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。

Mia's Action Log captures performance data from the scenario to allow for a quality debrief and reflective learning.
Mia'的行动日志（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
- 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 bronchi resistance
- Tracheotomy

Breathing

- Spontaneous breathing
- Respiratory rate is synchronized with vital parameters on the bedside monitor
- Programmable respiratory patterns
- Programmable diaphragmatic excursions
- Mechanical ventilation (A/C, SIMV, CPAP, PCV, PSV, NIPPV)
- PEEP (up to 20cm H2O)
- Airways synced to the respiratory rate
- Variable compliance
- Variable bronchi resistance
- Audible needle decompression with realistic feedback

Auscultation

- High-fidelity heart, lung, and bowel sounds
- Independent normal / abnormal heart sounds at mitral (1), aortic and pulmonic (2) sites
- Abdominal murmurs: normal / abnormal
- Korotkoff sounds auscultation while monitoring blood pressure
- Programmable bilateral chest rise and fall, synced with breathing

Neurology

- Convulsions
- Programmable blinking
- Programmable muscle tone: active, decreased, hypotonia, lacking
- Programmable pupils
- Programmable, palpable fontanel

CPR

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

Vascular access

- Intravenous injections (pre-installed catheter)
- Intraosseous access (tibia, bilateral)

Other features

- Sounds: crying, screaming, coughing, moaning, grunts
- Sucking reflex
- Pre-installed themes, scenarios, programs
- Realistic bone structure, palpable ribs, kneecaps and many more

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
- 肺吸入
- 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
- 鼻胃管/口胃管放置
- 袋阀式面罩
- 紫绀和手足发绀
- 胸部起伏
- 双侧支气管阻力

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
- 可程控膈肌偏移
- 机械通风
- （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
- 有声针刺减压，真实反馈

听诊

- 高保真心、肺、肠鸣音
- 二尖瓣（1）、主动脉和肺动脉（2）处独立的正常/异常心音
- 腹部杂音：正常/异常
- 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
- 可程控肌张力：活跃、减退、低下、缺乏
- 可程控、可触及的囟门

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（手部、头皮、脐部）
- 骨内通路（胫骨、双侧）

其他特征

- 声音：哭泣、尖叫、咳嗽、呻吟、咕噜声
- 吸吮反射
- 预置的主题、场景、程序
- 逼真的骨骼结构、可触及的肋骨、膝盖骨等

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。

销售查询:

大中华区域： 0086-15921959878/0086-15901939090 Email: poyton@poyton.cn

全球，日本
+8 (104) 571-66497
mail@medvision.jp

欧洲
+43 (664) 414-8288
sales@mse-group.co

美国
+1 (888) 584-7119
sales@medvisiongroup.com

独联体、中东、非洲
+7 (843) 227-4063
sales@medvisiongroup.com