



NeoCardioSim

NeoCardioSim is an interactive simulator for residents and students. Allows simulating incorrect behavior of the heart and cardiovascular system in an intensive care, cardiology, and neonatology of newborns. Uses modern multimedia forms of 3D visualization in real time, allowing to better illustrate treatment, and complications that can occur in neonatal intensive care.



PATHOLOGY EDUCATION FOR DOCTORS

NeoCardioSim was developed in collaboration with worldclass experts in the field of neonatology and cardiology, to model specific diseases and their treatments using various medicines.

Scenarios and reactions are rendered in real time on a **detailed three-dimensional anatomical model of the heart**. Inactive options allow simulating and saving multitude of research scenarios and clinical studies.



FEATURES:

- Visualize the most common disorders of neonatal heart and clinical cases
- Simulate effects of medications on the three-dimensional model of the heart which changes in real time under the influence of certain diseases, medications or manual modifications of simulator parameters
- Apply combination of disorders and heart deformities to explore situation of rear issues
- Tabular summary of varying parameter values of the heart
- Record and playback your own scenarios to effectively evaluate and teach residents
- Monitor simulation progress, x-ray of the hear, after applying scenarios, medications and parameters
- Database of example video research of EKG in showing heart diseases.
- Receive advice on administration of medicines as recommended by world-class experts in the field of neonatology.
- Interactive 3D graphics to better illustrate the course of treatment, complications, effects that can occur during selected medical simulation
- Ability to fixing the first, second and third line medicines in the treatment of heart disease.
- Database of references for scientific publications relating to pathology from application
- Clearly visualization of changes parameters relevant to the circulatory system.

ADVANTAGES:

MULTIPLE SIMULATIONS

NeoCardioSim allows to simulate different clinical scenarios and heart defects in newborns as well as methods of treatment.

MEDICAL PRACTICE

Application provides novice doctors with low cost training. Acquire the necessary skills to select appropriate medications affecting all parameters of the heart.

UNLIMITED NUMBER OF REPETITIONS

Allows effective learning of parameters achieve and combinations of medications to use all the elements important for proper functioning of the heart.

INNOVATIVE TRAINING STUDENTS

While reducing risks and the cost of learning, Students learn complicated medical procedures.

BETTER AND FASTER UNDERSTANDING

NeoCardioSim is based on 3D technology and virtual reality Oculus Rift and to travel inside of the heart and view in real time the effect of simulations.

VERSATILITY

Expandable VRToolbox™ platform for other age groups and fields of medicine.

HIGHER QUALITY OF TREATMENT

By increasing the level of knowledge of students and novice doctors.



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