



# NeoCardioSim

NeoCardioSim is an interactive simulator for residents and students. It simulates abnormal behavior of the heart and cardiovascular system in intensive care, cardiology, and neonatology of newborns. NeoCardioSim uses modern multimedia forms of 3D visualizations in real time, better illustrating treatments and complications that can occur in neonatal intensive care.



## PATHOLOGY EDUCATION FOR DOCTORS

**NeoCardioSim was developed in collaboration with world-class experts** in the fields of neonatology and cardiology, and was designed to model specific diseases and their various treatments.

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 and take x-rays of the heart 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 help illustrate the course of treatment, possible complications, and the effects that can occur during 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
- Clear visualization of the changes to the parameters relevant to the circulatory system

## ADVANTAGES:

### MULTIPLE SIMULATIONS

NeoCardioSim replicates different clinical scenarios and treatment methods for heart defects in newborns.

### MEDICAL PRACTICE

The application provides medical professionals with low-cost training and gives them the skills necessary to select the appropriate medications for heart defects.

### UNLIMITED NUMBER OF REPETITIONS

NeoCardioSim allows for an unlimited number of repetitions so users can effectively learn about all parameters and treatments necessary for proper functioning of the heart.

### INNOVATIVE TRAINING STUDENTS

Students can learn complicated medical procedures while reducing the costs and risks of training.

### BETTER AND FASTER UNDERSTANDING

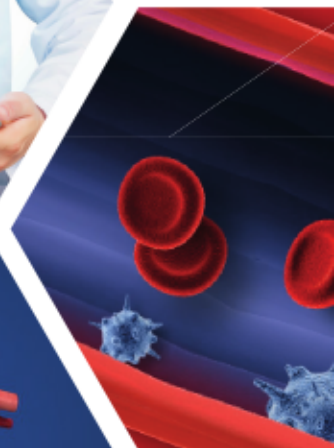
NeoCardioSim is based on 3D technology and virtual reality Oculus Rift and to travel inside of the heart and view in real time the effect of simulations.

### 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.



#### EUROPE

✉ kontakt@enfoglobe.pl

☎ +48 (17) 7844775

#### USA

✉ contact@enfoglobe.com

☎ 888-478-3636

