

## Office of Technology Transfer

## Product Development Opportunity

## Pediatric Heart Sounds: An Interactive Cardiac Auscultation CD-ROM

Cardiac auscultation is a difficult diagnostic skill to learn with accuracy. East Carolina University has developed an educational tool to train and prepare healthcare providers in identifying and distinguishing abnormal heart sounds in a pediatric population. Pediatric Heart Sounds is an interactive computer application on CD-ROM that allows users to listen to digitally recorded normal and abnormal heart sounds from pediatric patients and learn about the congenital heart conditions that cause them. East Carolina University seeks marketing partners to make this valuable educational tool available to healthcare providers and students.

### Features

- includes interactive overview of heart auscultation
- simulates actual pediatric heart examinations
- integrates high-fidelity digital recordings with a graphic patient chest interface
- includes a self-assessment option, an interactive quiz, a final examination, and a printable certificate of completion

### The Product

As a learning tool, Pediatric Heart Sounds offers an interactive overview of heart auscultation. It integrates high fidelity, digitally recorded pediatric heart sounds with a graphic interface which allows the user to view illustrations of a child's chest while listening to the points of auscultation, closely simulating an actual examination. Additional interactive text, illustrations, and a self-test are included to confirm a successful understanding of the different heart sounds. If the exam is passed with a score of 80% or better, a certificate of completion may be printed. The CD-Rom is designed to operate on a Pentium grade microcomputer equipped with a sound card and audio capability.

### Key Words

- Pediatrics
- Auscultation
- Instructional media
- Diagnostic tool

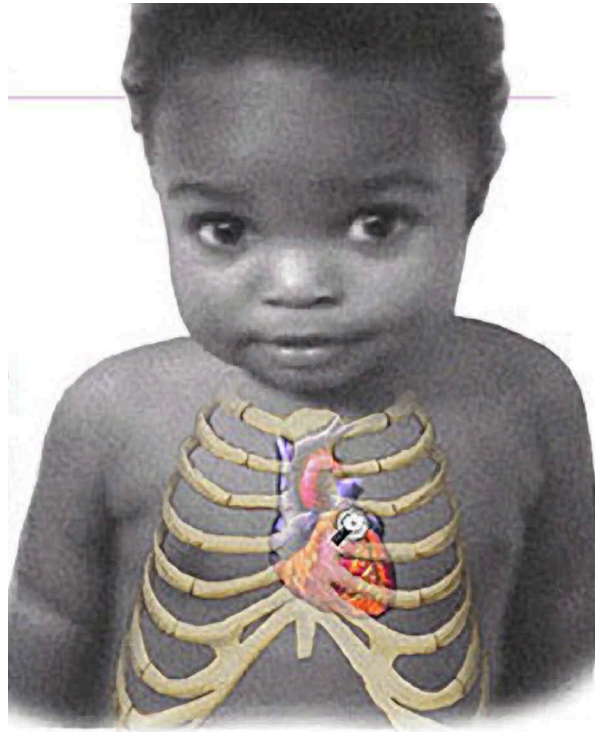


## Atrial Septal Defect

Move the mouse to  
the area of the heart  
you wish to listen to

You are listening at the  
upper left sternal border

The systolic murmur and the  
widely split second heart  
sound are best heard here



● About Atrial Septal  
Defect Sounds

Back ● Menu ● Exit ●

The graphic above illustrates a typical screenshot from the Pediatric Heart Sounds CD-ROM. The small stethoscope head on the heart is the screen cursor. As the cursor/stethoscope is moved over the child's chest, the appropriate digital recording of a child's heart is heard, simulating an actual patient exam.

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Pediatric  
Heart Sounds  
CD-Rom

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