

Virtual labs BioInteractive
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جمهورية العراق
وزارة التعليم العالي والبحث العلمي
جامعة الأنبار



شعبة ابن سينا للتعليم الالكتروني

تقدم

Virtual Labs

BioInteractive المختبرات الافتراضية
اعداد : م.م. محمد مهدي صالح

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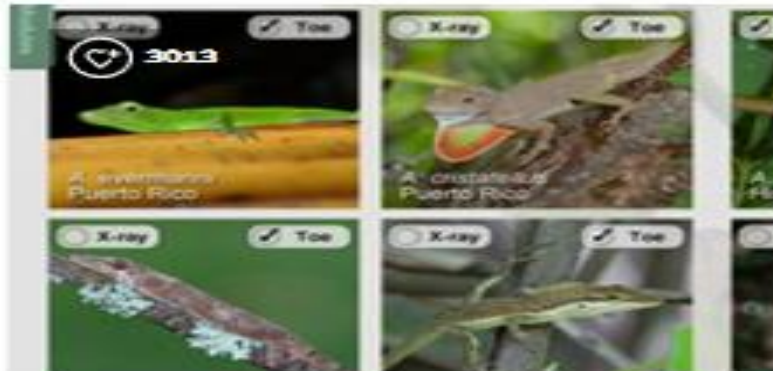
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The virtual labs are fully interactive simulations in which students perform experiments, collect data, and answer questions to assess their understanding. The labs combine animations, illustrations, and videos to convey key information and engage students in the process of science.

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Virtual Labs



VIRTUAL LAB

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VIRTUAL LAB

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INTERACTIVE MEDIA

VIRTUAL LAB

GENETICS

GENETIC BASIS OF DISEASE

ORGANISMAL BIOLOGY

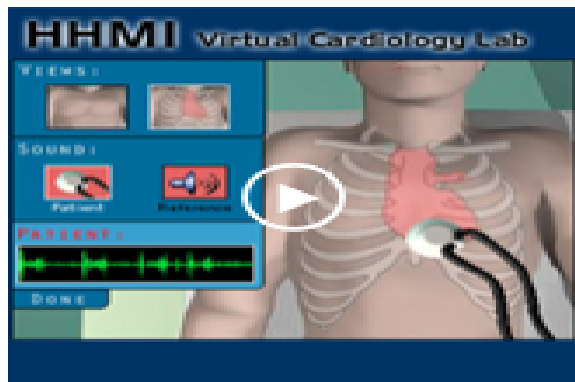
CIRCULATION

SCIENTIFIC PROCESS

BIOTECHNOLOGY

Cardiology Virtual Lab

THIS IS A PART OF **Of Hearts and Hypertension: Blazing Genetic Trails**



Summary

NEW! HTML 5 support added! This virtual lab will familiarize you with heritable diseases of the heart. Learn about the diagnostic tools used to examine and diagnose patients.

[Start Virtual Lab](#)

انقر هنا للبدء بالتجربة

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You are a virtual intern, accompanying a doctor who is examining three different patients. Each patient is examined using more than one diagnostic tool, and at each stage, the doctor will invite you to examine the patient yourself and ask for your opinion.

The following browsers are supported and recommended for this virtual lab. Please be sure that JavaScript and cookies are enabled and your pop-up blocker is disabled.

AVAILABLE FOR ORDER — DVD-ROM

Identify bacteria, examine heart patients, probe the nervous system, assay antibodies, study circadian rhythms, and analyze evolution in action. [Order Now >](#)

Click to enter the lab.

انقر هنا

Cardiology Lab Introduction and Help

Welcome to the Virtual Cardiology Lab. The focus of this lab is on heritable diseases of the heart. You are cast as a doctor, and a patient is examined, using more than one diagnostic tool, and at each stage, the doctor will invite you to examine the patient.

Making a diagnosis is, in many respects, like detective work. You gather clues using a variety of techniques and techniques used and building on current knowledge of diseases and their symptoms. Since we assume you are a doctor, we provide you with basic facts about the heart and heart diseases, medical terminology, and available diagnostic tools. This information is available both of which are available any time by clicking on the Reference tab above this window.

Learning Objectives

- Symptoms of a selection of heart diseases, to serve as examples of what kinds of things can go wrong
- Tools and techniques used for diagnosis. What can the different techniques detect and how do they work?
- Principles of pedigree analysis.

Using the Virtual Lab

The lab interface is divided into two main areas: the interactive window on the left and the lab notebook on the right. The text in the white tip window. As you progress, the lab notebook window will automatically update with detailed information.

Icons below the tip window indicate the current section (highlighted in white) and completed sections (in light blue).

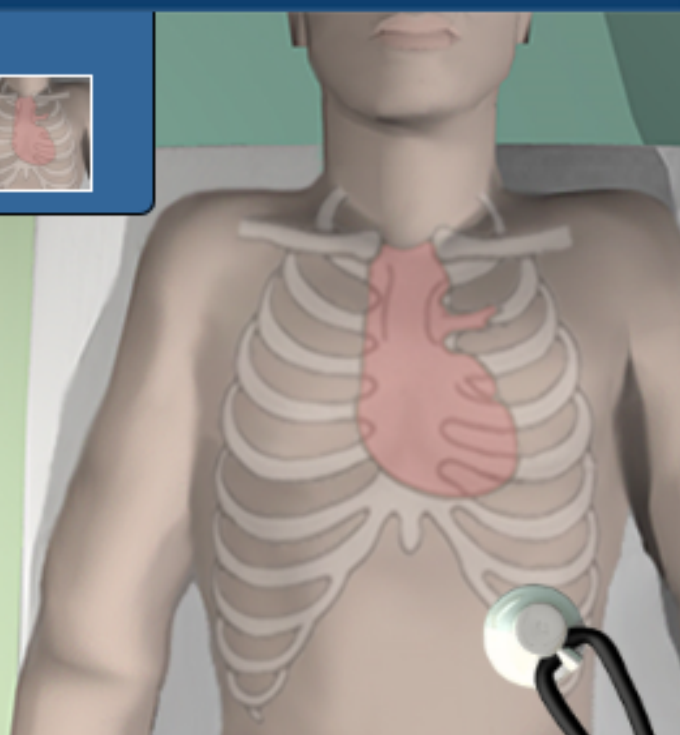
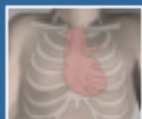
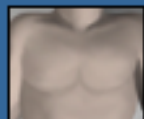
At any time during the lab, you can click the tabs above. The Patient tab will give you general information about the current section. The Quiz tab provides you with a summary of your quiz results. The Reference tab contains the Cardiology information, a glossary of terms, and an encyclopedia of terms. The Diagnostic Tools Guide includes information about the section information.

Supported Desktop Web Browsers

The following browsers are supported and recommended. For the virtual lab to work properly, be sure that Java is enabled.

- [Microsoft Internet Explorer](#) version 9 or greater.
- [Mozilla Firefox](#) version 9 or greater.
- [Google Chrome](#) version 9 or greater.
- [Apple Safari](#) version 5 or greater.

Views:



To listen to the patient's heart, move the stethoscope over the patient's chest. To change views, click an image in the Views window.

Auscultation Exam

The first step in determining the condition that afflicts this patient is listening with a stethoscope, or auscultation. In this exercise, you will use a stethoscope in one location. In real life, the doctor would place the stethoscope in different positions before making an evaluation. For a quick primer on this topic, see [\(auscultation page link\)](#).

Doctor's Question

Based on your examination, what do you conclude?

- a) The heart sound indicates a systolic murmur.
- b) The heart sound indicates a prolonged murmur during diastole.
- c) The heart sound is normal.
- d) The heart sound indicates a gallop rhythm.

a b c d

Correct

Once you have taken the doctor's quiz, click back in the examination window to continue with the examination.

Stetho

