Simulation Technology: *Physical Mannequins*: *Harvey Cardiac-Pulmonary Simulator*

Description

Harvey Cardiac-Pulmonary Simulator replicates the physical findings of over 30 cardio-pulmonary conditions. Most commonly used to teach and assess cardio-pulmonary bedside diagnosis.

Harvey is "a big hit" with students as a tool for cardiac and pulmonary auscultation skills training, as well as arterial and jugular pulses, pre-cordial movements, and respiration. Harvey's lifelike features, such as chest movement and simulated pulse, provide medical students, residents and physicians the opportunity to teach and study cardiac disease without inconveniencing hospital patients.

General Strengths & Weaknesses

UMMS users report the major strength of any physical mannequin, and Harvey specifically, is the opportunity for students to practice skills without risk to live patients. Teaching with the mannequin offers the opportunity to teach team discussion and collaboration in small groups.

General weaknesses reported include 1) the need for faculty presence [in the Simulation Center], 2) the high cost of acquiring and maintaining mannequins, 3) the number of small group sessions necessary to effectively teach large classes, and 4) the "…*limited programmability of Harvey*…"

Peer Resources

Michael Ennis
Melissa Fischer
Dawn Fraga
Janet Hale
Debra Heitmann
Maurice Joyce
Tracy Kedian
Mark Manning
Erin McMaster
Tiffany Moore Simas
Linda Pape
John Paraskos
Ann Perla
Shahrzad Shidfar
Hugh Silk
Melinda Taylor*
Stacy Weisberg
Paul Zgurzynski

UMMS Information Services Support

*Harvey "lives in" and is supported by the UMMS Simulation Center ; *contact Melinda Taylor* directly.

Additional group- and self-study computer software components supporting *Harvey* in the SimCenter include the *Harvey Curriculum Digital Heart Sound Teaching System* and *UMedic Big 12 Essentials of Cardiac Auscultation*.

UMedic Big 12 Essentials of Cardiac Auscultation is a computer application designed for self-learning. Application CDs are available for loan from the UMMS SimCenter.

Harvey trivia…

> *Harvey is named after a famous Georgetown University cardiologist, W. Proctor Harvey, under whom Gordon studied. "He really changed my career aspirations," says Gordon of W. Proctor Harvey. "I was going to be a researcher in biochemistry. But he led me down the path to being a clinician and teacher. I was so stimulated by him that I decided to name the simulator after him."*
> *(http://www6.miami.edu/veritas/january2005/nb/nbstory2.html)*