VIDEO ANALYSIS: FROM BASKETBALL COURT TO CLASSROOM
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Human Simulation and Patient Safety Center

OVERVIEW
The Human Simulation and Patient Safety Center is a joint project of the Department of Anesthesiology, the School of Medicine, and the School of Nursing at Duke University. We use a novel product called Studiocode (http://www.studiocodegroup.com/index.html) to analyze digital video. The software, used for years to analyze sporting events, is now available for educational use.

We generate a large amount of digital video in the Simulation Center. We use Studiocode to code and index individual performances. We quickly navigate through coded portions of video. We extract small clips from the larger video file. We combine extracted video to form longitudinal assessments of learners and compare peer groups.

We use different input windows to code the same video clip. We export coded data to Excel for further analysis.

TECHNOLOGY USED
- Studiocode software
- Dual Processor Macintosh G5
- Analog video cameras
- Mpeg conversion cards

SPONSORS
- Department of Anesthesiology
- School of Medicine
- School of Nursing

OUTCOMES
Studiocode enables objective rating of video for educational outcomes and research.

I believe this class of computer program is essential for any group that analyzes video in their educational or research mission.

- Dr. Jeffrey Taekman

A coded video clip - The upper left hand panel is the original video clip. The upper right hand panel is the coding window. The lower panel is a graphical representation of the coded video. Different coding windows may be used on the same video clip.