VIRTUAL PATIENTS
CONSORTIUM MEETING

University of Florida
July 13\textsuperscript{th}, 2009
Agenda

- **Goals**
  - Discuss ongoing projects
  - Present new technology
  - Identify potential collaborations
  - Chart the group’s course for the following year

- **Schedule**
  - Online @ verg.cise.ufl.edu
  - Wireless internet: XXX
  - Lunch is provided @ 1 PM in 520D
  - All talks will be recorded and posted on youtube
Consortium Overview

- Started in Spring 2004
- 4 Universities
- 32-person team including
  - Computer Science
  - Medicine
  - Education
  - Psychology
- 53 active members
Consortium Overview

- Experiences
  - Immersive: 567
  - Online: 1000+
  - Public exhibits and demos: 100s
  - 24 scenarios

- Publications: 9 journal, 16 conference, 18 abstracts

- Awards:
  - IEEE VR 2008 Best Paper
  - Research and Clinical Abstract Awards (Georgia ACS)

- $2.8 million in funding (NSF, NIH, and ASE)
Publicity

- www.virtualpatientsgroup.com
- www.virtualpeoplefactory.com
- New Virtual Patients Webpage
- Business cards
- Wiki
- Forum
- Wiki & forum access email Shiva (shivashankarh@ufl.edu)
## Sponsors

### Current support

<table>
<thead>
<tr>
<th>National Science Foundation</th>
<th>National Institutes of Health</th>
<th>Association of Surgical Education</th>
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<td><img src="image2.png" alt="NIH Logo" /></td>
<td><img src="image3.png" alt="ASSE Logo" /></td>
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### Prior Support

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<tr>
<th>University of Florida</th>
<th>Medical College of Georgia</th>
<th>Keele University</th>
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<td><img src="image4.png" alt="UF Logo" /></td>
<td><img src="image5.png" alt="MCG Logo" /></td>
<td><img src="image6.png" alt="Keele Logo" /></td>
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Video Conference with a VP

- All VPF scripts can be experienced video-conference style
- Interact with 3D VPs using a webcam and typing
- Enables study of distributed medicine
Students administer audiology exams to VP.

Exams include:
- History
- VP visual examination
- Hearing screen
- Testing speech understanding

Highlights
- Procedure and communications skills
- VP presenting abnormal conditions
Pain Perception

- PI: Mike Robinson
- Video vignettes of VPs expressing low or high levels (FACS) of pain
- VPs varied in gender, age, and ethnicities
- Doctors, nurses, and dentists evaluate perceived levels of pain
- Identifies variables and weighting of variables that affect healthcare provider’s pain perception
Scripts (24)

http://vpf.cise.ufl.edu/wiki/index.php/VPF_Script_Tracking

- Anesthesia
  - Pre-op OSA (UF)
  - Conscious sedation (UF)

- Cancer
  - Abnormal mammogram (UF)
  - BRCA Pedigree (UCF)
  - Clinical breast exam (UF/MCG)
  - Melanoma (MCG)

- Pain
  - Abdominal Pain (UF)
  - Chest pain (UF)
  - Gallstones (UCF)
  - Lower back pain (UF)
  - Lower back pain (PCOM)

- Psychiatry
  - Failure to thrive (UF)
  - Depression (MCG)
  - Bi-polar (MCG)

- General
  - Breaking bad news (MCG)
  - Cranial Nerve (UF)
  - Dyspepsia – Pharmacy (UF)
  - Gastro-Band (UF)
  - GI Hemorrhage (UF)
  - Meningitis (PCOM)
  - Patient-Centered Counseling (USF)
  - Post Operative Hemorrhage (UF)
  - Sexually Transmitted Diseases (UF)
  - Contraceptive Counseling (UF)
Experiences

- 24 Patient-Doc scenarios
- Intimate Exams
- Abnormal Findings (Neurological Exam)
- Conscious Sedation (VP+IPS)
- Audiology Testing
- After-Action Reviews
- You, M.D.
- Bias studies: Pain perception
Upcoming Technical Advances

- Interact with VPs
  - Web Browser
  - Second Life
  - Video Chat
- Prostate exam
- IPSViz - Online student and educator interfaces
- NERVE+VSP - See the world through the patient’s eyes
- VPF
  - Patient generator
  - Culture generator
- IPS+HPS
2009-2010 Upcoming

- Studies
  - MRH Learning -> R25
  - NERVE -> R01
  - Learning consequences with VHs
  - Constructivist Learning (learn by creating VHs)
- Breast Self-Exam
- MOSI installation in Fall 2009
Grants/Proposal Writing

Existing
- NSF – Bias + IPSViz – 3 more years
- NSF – MRH – 3 more years
- NIH – NERVE – 1 more year (discuss post-doc)
- NIH – Pain perception – 4 more years

Under Review
- NIH – R25 – 5 years

Planned
- (October) NIH – R21 – Conscious Sedation
- (October) NIH – R01 – Neurological Exam
- Stemmler?
Planning

- Big-Picture goals
  - Nationwide integration
  - International reputation
  - Additional areas “to stake”

- Integration
  - Increase consortium universities
  - NBME?

- Reputation
  - Publication/presentation venues
  - Whose “eyes” do we need to be in front of?
  - What do we need to show/claim that we can’t now?

- 50 scenarios by fall
Consortium Expertise

- University of Florida
  - Technology development
  - Scenario development
  - Abnormal findings

- Medical College of Georgia
  - Intimate Exmas

- University of Georgia
  - Patient-centered experiences

- University of Central Florida
  - Assessment
  - Curricular integration

Next meeting
- Location?
- Frequency?

Take group photo