

CENTER
FOR RESEARCH
AND INNOVATION
IN SYSTEMS
SCIENCE

Healthcare Product User Interface Design & Evaluation Services



Helping customers design the best and safest medical products.

CRISS provides practical product design and evaluation services that address end-users' needs and capabilities within the rich context of real-world healthcare practices. Our services and facilities help customers design the best and safest medical products available.

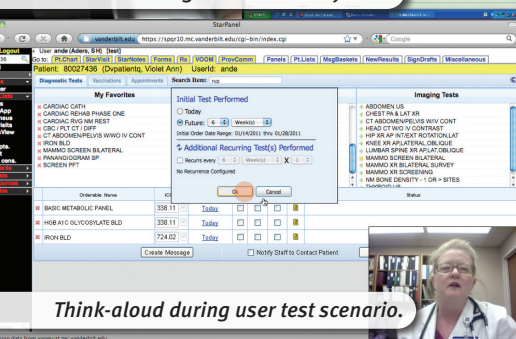
- Experience in user interface design and evaluation of HIT, devices and processes
- Experts in human factors engineering, human-computer interaction, cognitive psychology and biomedical engineering
- State-of-the-art simulation facilities
- Access to clinical facilities and practitioners



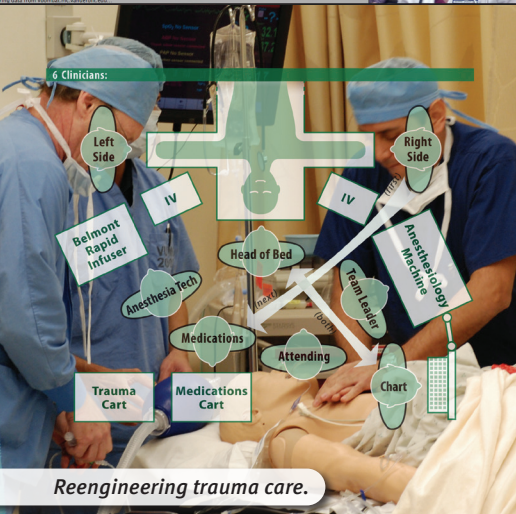
Testing EHR in simulated ICU.



Blood checking device usability test.



Think-aloud during user test scenario.

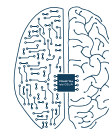


Reengineering trauma care.

The Center for Research and Innovation in Systems Science (CRISS), based at Vanderbilt Health, provides best-of-class services in user-centered design, participatory design, contextual inquiry, usability evaluation and testing, process reengineering, event analysis, and general consulting for the healthcare industry.

State-of-the-art Facilities & Resources

- Usability lab and support space with real-time AV capture systems
- Mobile data recording systems for in situ usability evaluations
- Access to the Vanderbilt Center for Experiential Learning and Assessment, a multipurpose high-fidelity simulation facility with 12 fully equipped clinical exam rooms and 4-bed ICU, 6-bed ED, OR suites



CENTER FOR EXPERIENTIAL LEARNING AND ASSESSMENT

Experienced Personnel

- Expertise in human factors engineering, human-computer interaction, cognitive psychology, biomedical and systems engineering, quality improvement, informatics, and implementation science
- Physicians and nurses involved in design and evaluation processes
- Comprehensive access to sub-specialty clinical practitioners and researchers

Vanderbilt University Medical Center

- Wide access to clinical facilities and personnel at Vanderbilt University Hospital, Monroe Carell Jr. Children's Hospital and Vanderbilt Clinics
- A quaternary care academic medical center with an international reputation for excellence in patient care, research and education
- Exceeds 1.6 million patient visits, 108,000 emergency room visits and 60,000 operative procedures annually
- One of the most advanced healthcare informatics systems in the U.S.

Practical as well as Research Experience

- Over 20 years of experience studying and improving medical technologies and processes
- FDA compliant activities and deliverables
- Specializing in enhancing human-technology interactions including best practice methods of information presentation for effective decision making and increased patient safety
- Interdisciplinary collaboration to accomplish in-the-trenches improvements in software, devices and care processes

Why Use CRISS?

- Through user-centered design and evaluation, your product will be easier to use, safer, more satisfying and more marketable
- Identify patient-related hazards and user issues early when they can be resolved more definitively and less expensively
- Increased ROI and decreased Total Cost of Ownership

For more information, contact:
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