

Fundamentals of Robotic Surgery (Phase4) - Validation Trial: Solicitation # FRS-VTS-002
Description and Criteria for Participation

Funding Opportunity #	FRS-VTS-001
Funding Title	Fundamentals of Robotic Surgery (FRS) Validation Trial
Opening Date	April 15, 2014
Closing Date	May 31, 2014 17:00 hr EST
Award Notification	June 30, 2014
Award Project Period	Total period to completion 1 year
Funding Instrument	Subcontract – Fixed FEE
Estimated Total Funds	\$300,000
Expected Number of awards	10
Cost sharing requirements	None
Eligibility	American College of Surgeons Accredited Educational Institutes members Minimum # Surgical Specialties: 3 Minimum # Subjects : 30 Minimum Equipment: DaVinci – Si Surgical Robotic System
Funding Organization:	Fundamentals of Robotic Surgery Initiative

Funding Opportunity Description:

This solicitation is to validate the Fundamentals of Robotic Surgery (FRS) curriculum which has been developed over 2 years with 4 consensus conferences by 14 surgical specialties, the Department of Defense (DoD), and the Veterans Administration (VA). The FRS is a comprehensive, full life cycle curriculum development that includes outcomes measures, metrics, an innovative new simulation device for psychomotor skills, online-curriculum, and team-training and communication skills that focuses upon the most basic robotic surgical skills that are common to any surgical specialty surgeon who chooses to perform surgical procedures with a robotic system. Preliminary (unpublished) work has demonstrated face, content and construct validity in a small number of subjects. The goal of this trial is to conduct a formal validation of the FRS curriculum and simulator and to demonstrate that the FRS is an effective training and assessment educational tool. The objective of this validation trial is to replicate the preliminary findings by a multi-institutional trial of 10 participating institutions using multiple surgical specialties that engage in robotic surgery. In addition to validating the curriculum and simulator, there will be a comparative effectiveness of using the curriculum on a computer-based (virtual reality) version to the standard physical models. The research includes validation of the didactic on-line curriculum, of the psychomotor (technical) skills, and the team training and communication skills component.

Criteria for institutions participating in Phase 4 Validation Trials

1. Institute requirements

- Be an ACS/AEI accredited Institute
- Have access to large number of subjects
- Be able to recruit residents, fellows and/or surgeons who are novice robotic surgeons as well as experienced (expert) robotic surgeons
 1. Minimum of 8 'novice' surgeons' (residents or non-robotic surgeons) from at least 3 specialties involved
 - a. (minimum of 18 total 'novices' from each participating institution)
 - b. These will be the 'novice' or intermediate surgeons for training – ½ of which will be controls
 2. Minimum of 2 experienced (expert) robotic surgeons each from at least 3 specialties involved
 - a. (minimal total of 6 experienced robotic surgeons from each participating institution)
 - b. These surgeons will perform the preliminary study to set the benchmark criteria of proficiency

2. Support staff requirements

- Staff familiar with study design, clinical trial management and data collection
- Dedicated Principle Investigator/coordinator for this study with dedication of 10% of time to the project
- Staff acquainted with simulator and have on the spot Tech support
- Administrative support to include help with IRB requirements (at least average IRB turn-around time)

3. Resource requirements

- Access to a DaVinci Si robot
- Access to robotic simulator (optional)

4 Academic record requirements

- Proven academic track record in surgical education
- Include the participation of the Surgical director of the ACS-AEI (if not the PI of this project)
- Minimum of 5 peer-reviewed publications in surgical education and/or simulation