

Logistics for Haptics Network Performance Research Study & Pilot

Purpose of Study: Study impact of network degradation on accuracy of haptic differentiation of surgeons

Design of pilot: Need to determine the delay variables, the timing

Variable: 3 different latencies

Timing: x minutes per person

of Subjects:

Incentive:

Protocol:

Set-Up: 2 carts

- Spring Workstation: monitor, CPU on cart
Keyboard and mouse for startup
- Bimanual on cart
- Haptic Server: monitor (?), CPU on cart
- NIST Network Simulator: monitor (?), CPU on cart

Room: Conference Room near Ambulatory Surgery Center

Contact: Sue Hoopes to reserve room

Staffing (?)

- Research facilitator (Executes the protocol as designed)
Gives directions and shows how to perform the study
Conducts end of session interview
- LeRoy to recruit surgeons

Equipment required:

- Consent forms
- Recording sheets
- "Cheat sheet for research facilitator"
- Workstations on 2 rolling carts
- Bimanual
- Tarp, in case of rain

Documentation

SPRING set-up
Research protocol instructions for researcher