
**Benign Prostatic Hyperplasia: Surgical
Therapy and New Technology (II)**

Podium

Wednesday, April 30, 2003

10:00 AM-12:00 PM

1752

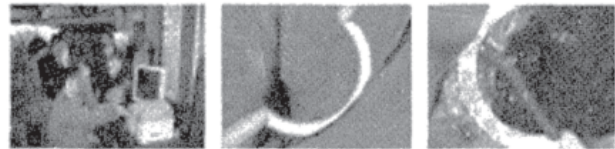
THE UW TURP SIMULATOR: A VALIDATED TOOL TO TRAIN RESECTION SKILLS *Robert M Sweet*, Timothy M Kowalewski, Peter Oppenheimer, Jeff Berkley, Richard Satava, James R Porter, Suzanne Weghorst, Seattle, WA*

INTRODUCTION AND OBJECTIVE: We have completed version 1.0 of a prototype training simulator for TURP. Value of such a training tool is evident only through validation protocols. We present our ongoing work in validating the UW TURP simulator as a training tool.

METHODS: At the AUA 2002, 111 Urologists and trainees completed a 5-minute resection task as efficiently as possible, attempting to maintain the least amount of blood loss, while conserving irrigant. Metrics were logged for each subject and compared with 10 novices. Resection styles were correlated with efficiency and all metrics were stratified with respect to experience level, video game experience and demographic data. Feedback with regards to acceptability was obtained after the simulation task and comparisons made between and within groups.

RESULTS: After the simulation task, 93% of expert and trainee participants believed that the version 1.0 of the UW TURP simulator would be useful as a training tool. 88% felt that it should be implemented into the curriculum of residency programs and 58% felt that it should be used for accreditation. The various components of the simulator were individually rated and all means were above the acceptability threshold. The board-certified urologists and trainees resected more tissue (mean 6 grams versus 1.4 grams $p=.013$), with more grams per cut pedal pressed ($p=.024$) and less blood loss/gram resected ($p=.006$) and had no operative errors compared with 5/10 novices who resected the sphincter despite instruction not to prior to performing the task. 5/111 (4.5%) of the experts experienced redout, compared with 4/10 (40%) of the novices.

CONCLUSIONS: We have established face, content and some aspects of construct and concurrent validity for version 1.0 of the University of Washington TURP simulator to train resection skills. Such a tool will shorten the learning curve in the operating room and allow for focused training out of the operating room on the skills necessary to perform TURP.



Source of Funding: ACMI.