Project Title: Robotic surgical simulator based skills acquisition comparing video gamers versus non-video gamers

Host School/ Institute
Sydney Adventist Hospital Clinical School

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Project Type: Literature Review, Qualitative Analysis, Data Analysis, Design

Project Category: Nephrology/Urology, Education, Surgery, Technology

Project Keywords:
1. Robotic Surgery
2. Simulation
3. Video
4. Prostate

Project Description:

This study involves use of the simulator on the Da Vinci robotic surgery platform used to perform robotic assisted radical prostatectomy.

The student will have significant participation in the design of a project that attempts to determine if prior skills associated with video gaming place a user at an advantage in the performance of simulator skills. The project will commence with a literature search followed by the development of a study protocol.

Subjects with defined inclusion criteria for video gaming experience or without will be recruited and selected simulator exercises undertaken. Comparative statistical analysis will be performed and results reported in preparation for journal publication. The student will also have opportunity observe robotic assisted radical prostatectomy surgery and other aspects of prostate cancer management.