OMICS Group Conferences
Accelerating Scientific Discovery

2nd International Conference on
Surgery and Anesthesia
September 16-18, 2013 Hampton Inn Tropicana, Las Vegas, NV, USA

Transoral robotic surgery: Current applications and future directions

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Transoral robotic surgery (TORS) is a technique to remove tumors of the upper aero digestive tract in a minimally invasive fashion. TORS has been adopted as the preferred treatment modality for selected tumors at many institutions and data support excellent oncologic and functional outcomes. Despite TORS only being FDA-approved since 2009, the field is rapidly evolving. The interface between surgery and robotics provides an advancing frontier that promises to change the way we treat our patients. This seminar will present the current state of the art in transoral robotic surgery. We will also explore current research to glimpse the future of TORS; including novel robotic designs for the head and neck, image-guided navigation, image-overlay, and intra-operative imaging.

Biography

Jeremy D. Richmon, M.D is an Assistant Professor in the Department of Otolaryngology-Head and Neck Surgery at Johns Hopkins Hospital. Richmon is the director of the head and neck surgery robotic program at Johns Hopkins Hospital. He is using the Da Vinci surgical robot to assist with removing tumors from the throat and larynx through the mouth as well as performing robotic thyroidectomy. He is currently working with the Department of Computer Science at Johns Hopkins University in developing a residency training curriculum specific for head and neck robotic surgery. This endeavor promises to set the standard for future robotic training in head and neck surgery.

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