

**TITLE: Development of an objective, reliable, reproducible, validated prediction model for deep pelvic surgery with improved patient outcomes**

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RESEARCH PROJECT DESCRIPTION: (<250 words)

**BRIEF OVERVIEW: The study will aim to obtain pelvic measurements from imaging studies and attempt to correlate them with outcomes in pelvic surgery.**

**HYPOTHESIS: We can reliably predict which patients will have poor outcome for low pelvic dissections preoperatively using a score model which in turn will improve outcomes.**

**METHODS: All patients who have undergone low pelvic surgery at UF Health in the last 10 years will be identified. We will obtain pelvic measurements from preoperative imaging in these patients and attempt to correlate them with outcomes for pelvic surgery. We will validate the previously established score at UF Health (PSDI Index) to predict difficult pelvic surgery to identify them early and prepare for the surgery better in the future. We will also retrospectively analyze outcomes in these patients. The next phase of this study would involve incorporating data from other participating centers such as Wash U and Univ of Kentucky.**

**ROLE OF MEDICAL STUDENT: The Medical student will help obtain all measurements from imaging studies (after training and guidance from the attending physician) and will also establish a database for these patients. Subsequently, will also work in conjunction with the faculty to analyze the data and write a manuscript.**

**FUNDING AND RELEVANT PUBLICATIONS: Currently funded by an internal departmental grant of \$12,500 but that would likely not cover all expenses. Previously, our results from an early study which developed the PSDI index have been presented at FL- ACS and the annual ASCRS meeting. Two manuscripts are currently being prepared for it.**