An Eleven Year Retrospective Cohort Evaluation of the Effects of Pre and Post Robotic Surgery on Medical Resident Training in a Post ACGME Regulatory Restrictions Period at a Major Medical Teaching Hospital

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Research was done using 911 medical records comparing surgical outcomes of cases where resident or staff functioned as the surgical assistant. Complication rates and the level of resident involvement was tracked over an 11 year period. Findings show that resident involvement has precipitously declined (especially with the introduction of robotic surgery). A project was then undertaken to create a medical/educational website and app to augment a residents value as a surgeon and deepen their surgical skills. I acquired all of the following: IRB approval, supervision, quality improvement dept. support and assistance, access to hospital data bank, hospital computer records, paper charts, assistance from the dept. of Ob/Gyn, volunteer dept. authorization, supervision of the Ob/Gyn dept. administrator. Then I reviewed medical records for their clinic notes, pre op histories, anesthesia records, lab results, radiographic reports, patient post op notes, clinic follow up notes. Eleven years of medical records were evaluated. I focused specially on resident involvement with hysterectomies. Resident involvement has been decreasing, however there has not been a decline in the quality of surgery delivered. With the decline in major cases there is concern regarding resident training and one solution may be to add technology in the form of internet tools to aid in residents experience and add to their surgical value. To this end I created a medical educational website and interactive app that will agment resident education and deepen their surgical knowledge as well as increase their value as a surgical assistant

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