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1 **Robotic, Laparoscopic, or Open Hysterectomy - Surgical Outcomes by Approach in**
2 **Endometrial Cancer**

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16 The authors have no conflicts of interest to disclose.

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19 **Precis:** Utilizing a population-based retrospective cohort, we analyzed perioperative outcomes
20 by surgical approach to hysterectomy for endometrial cancer.

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23 **ABSTRACT:**

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25 **STUDY OBJECTIVES:** To compare patient outcomes by surgical approach in the management
26 of endometrial cancer (EC) in Washington State from 2008-2013.

27

28 **DESIGN:** Population-based retrospective cohort study. Design classification II-2.

29

30 **SETTING:** Washington State

31

32 **PATIENTS:** We performed a population-based retrospective cohort study of EC patients treated
33 with robotic-assisted surgery (RAS), laparoscopy (LS), or laparotomy (XLAP). We used the
34 Comprehensive Hospital Abstract Reporting System (CHARS) to identify patients and assessed
35 the association of surgical approach with length of stay, readmissions, and perioperative
36 complications.

37

38 **INTERVENTIONS:** The difference in mean LOS was assessed with linear regression with
39 robust standard errors. Associations between surgical approach and readmission or perioperative
40 complications were assessed using multivariable logistic regression.

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