

Da Vinci benign hysterectomy

Publication summary

2024

Benign hysterectomy with Intuitive da Vinci vs. open, lap, and vaginal surgery

Systematic review of 24 articles published between Jan 1, 2010 and Dec 31, 2020 that reported on 110,306 robotic, 262,715 laparoscopic, 189,237 vaginal, and 554,407 open patients.

Da Vinci® surgery vs. open approach

Robotic approach was associated with

- Shorter hospital stay**
(MD: -1.31 [-1.88, -0.74], p 0.00001)
- Less blood loss**
MD: -123.01 ml [-214.83, -31.19], (p=0.009)
- Fewer complications**
(OR: 0.42 [0.27, 0.66], p=0.0001)
- Lower risk of mortality**
(OR: 0.12 [0.05, 0.29], p < 0.00001)

Da Vinci surgery vs. lap approach

Robotic approach demonstrated

- Lower estimated blood loss**
(MD: - 52.31 mL [- 98.17, - 6.45], p=0.03)
- Lower blood transfusions**
(RD: - 0.0043 [- 0.0059, - 0.0027], p<0.00001)
- Lower risk of staying more than two days post-operatively**
(OR: 0.67 [0.57, 0.79], p<0.0001)
- Lower readmissions**
(OR: 0.90 [0.83, 0.99], p=0.03)

Da Vinci surgery vs. vaginal approach

Robotic approach demonstrated

- Lower risk of intraoperative complications**
(OR: 0.45 [0.29, 0.71], p=0.0006)
- Lower estimated blood loss**
(MD: - 71.18 [- 85.15, - 57.20], p<0.00001)
- Lower risk of staying more than two-days post-operatively**
(OR: 0.56 [0.40, 0.78], p=0.0006)

Additional note: operative time was shown to be shorter with the vaginal approach compared to the robotic approach

Lenfant L, Canlorbe G, Belghiti J, et al. Robotic-assisted benign hysterectomy compared with laparoscopic, vaginal, and open surgery: a systematic review and meta-analysis: The ROBOCOP II Study. *Journal of Robotic Surgery*. Published online July 6, 2023. <https://doi.org/10.1007/s11701-023-01724-6>.

Important safety information

Important safety information

Serious complications may occur in any surgery, including da Vinci surgery, up to and including death. Serious risks include, but are not limited to, injury to tissues and organs and conversion to other surgical techniques which could result in a longer operative time and/or increased complications. For summary of the risks associated with surgery refer to www.davincisurgery.com/safety or www.intuitive.com/safety.

For product intended use and/or indications for use, risks, cautions, and warnings and full prescribing information, refer to the associated user manual(s) or visit <https://manuals.intuitivesurgical.com/market>.

Individual outcomes may depend on a number of factors—including but not limited to—patient characteristics, disease characteristics, and/or surgeon experience.

Da Vinci Xi/X system precaution statement

The demonstration of safety and effectiveness for the representative specific procedures did not include evaluation of outcomes related to the treatment of cancer (overall survival, disease-free survival, local recurrence), except for radical prostatectomy which was evaluated for overall survival, or treatment of the patient's underlying disease/condition. Device usage in all surgical procedures should be guided by the clinical judgment of an adequately trained surgeon.

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