Evidence Navigator: Myomectomy

Systematic literature review & meta-analysis as of April 1, 2022



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Purpose

The Evidence Navigator is a slide presentation representing a summary of the meta-analysis of the highest level of evidence available specific to a given procedure and published as of a particular date. It is created by the Global Evidence Management team within Global Access, Value and Economics (GAVE). It includes information that is available in the public domain. It is a systematic review and meta-analysis of the peer-reviewed literature based on a timeframe within which a literature search has been conducted according to a set of concise inclusion and exclusion criteria. The results of the meta-analysis are presented in the form of forest plots summarized for each outcome according to a comparator and surgical approach of interest. It is intended to educate both internal and external stakeholders on the highest level of evidence that is currently available for a given surgical procedure. The summary results are reflective of a specific period in time and are subject to change with increasing literature. All of the robotic-assisted surgery procedures mentioned within the Evidence Navigator were performed using a da Vinci surgical system.

INTUÎTIVE

Statistical analysis

All summary measures are shown as odds ratios, risk ratios or risk differences when describing binary outcomes, or as standardized mean differences or weighted mean differences when describing continuous outcomes. Weighting is based on the study sample size and variability of the outcome. A fixed effect model is used if heterogeneity was not statistically significant or not applicable, and a random effect model is used if heterogeneity was statistically significant. Mantel Haenszel summary statistic is used for overall results. Meta-analysis is performed with with RevMan 5.4 (Review Manager, Version 5.4. Copenhagen: The Nordic Cochrane Centre, The Cochrane Collaboration, 2014) or R software (R Foundation for Statistical Computing, Vienna, Austria.URL https://www.R-project.org/).

Interpretation notes

When the effect size is measured as a standardized mean difference (SMD), or a risk difference (RD), it is not possible to provide a quantitative conclusion. In such cases, a qualitative conclusion is given with reference to its statistical significance. In some instances, studies may contain some overlapping patient populations. A redundancy check is performed in order to minimize this overlap and bias due to over-reporting.

INTUÎTIVE

Glossary

robotic-assisted surgery
laparoscopic surgery
level of evidence
health technology assessment
randomized controlled trial
odds ratio
mean difference

WMD		weighted mean difference
	RD	risk difference
	SMD	standardized mean difference
	95% CI	95% confidence interval
	 ²	test statistic for heterogeneity
	EBL	estimated blood loss
	LOS	length of hospital stay

Evidence Navigator: Myomectomy Summary Slides

Systematic literature review & meta-analysis as of April 1, 2022



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WHAT DOES THE LITERATURE SHOW? Systematic literature review key points: Literature search methods for Myomectomy

Inclusion criteria

Robotic-assisted myomectomy performed with a da Vinci surgical system

January 1, 2010 – April 1, 2022

Level of Evidence = 1b, 2b, 2c, 3b

Comparative cohort studies n>20 (RCT, prospective cohort, large independent database studies, or retrospective cohort) (robotic-assisted vs. laparoscopic and/or open surgery)

Exclusion criteria

Not in English

Paper reports on a pediatric population

Publication is an HTA that was not published in a peer-reviewed journal

Alternate technique/approach (e.g. single-port)

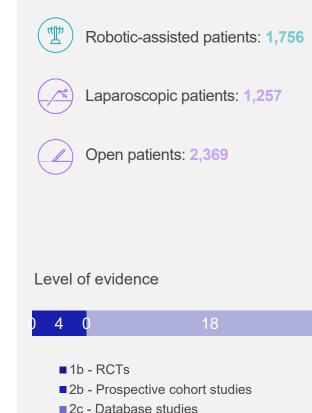
No stratified analysis by study arm

Myomectomy data mixed with other procedures

Original research study does not provide quantitative results for outcomes of interest

Original research publication includes redundant patient population and similar conclusions

22 publications including



- 2c Database studies
- 3b Retrospective cohort studies



WHAT DOES THE LITERATURE SHOW? Systematic literature review key points:

Robotic-assisted with da Vinci surgical system vs. open myomectomy

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Favors robotic-assisted

- Postoperative ileus by 77%
- Blood transfusion by **62%**
- ↓ Estimated blood loss by **58 ml**
- ↓ Length of hospital stay by **1.6 days**

) Comparable outcomes

- ≈ Intraoperative complications
- ≈ 30-day postoperative complications
- ≈ 30-day readmissions
- ≈ Postoperative pregnancies*
- ≈ Postoperative miscarriages
- ≈ Postoperative livebirth*
- ≈ Fibroid size
- ≈ Submucosal fibroids
- ≈ Pedunculated fibroids

Favors open

- ↓ Operative time by **78 min**
- ↑ Subserosal fibroids by **77%**
- ↑ Intramural fibroids by **53%**
- ↑ Fibroid weight by **116 g**
- ↑ Number of fibroids resected by 3.9
- ↑ Uterine size by 2.6 gestational weeks

 * 2 studies reporting postoperative fertility outcomes with follow-up ranging between 3 – 8 years

Data collected through: April 1, 2022

Significant difference favoring robotic-assisted surgery

No significant difference; comparable outcomes

Significant difference favoring open surgery



WHAT DOES THE LITERATURE SHOW? Systematic literature review key points:

Robotic-assisted with da Vinci surgical system vs. laparoscopic myomectomy*

""

Favors robotic-assisted

- Conversions by **59%**
- Pedunculated fibroids by 64%
- ↑ Fibroid size by **0.52 cm**

- Comparable outcomes
 - ≈ Length of hospital stay
 - ≈ Estimated blood loss
 - ≈ Blood transfusions
 - ≈ 30-day reoperations
 - ≈ Intraoperative complications
 - ≈ 30-day postoperative complications
 - ≈ Postoperative ileus
 - ≈ Postoperative pregnancies*
 - ≈ Postoperative miscarriage
 - ≈ Postoperative livebirth*
 - ≈ Fibroid weight
 - ≈ Number of fibroids resected
 - ≈ Subserosal fibroids
 - ≈ Intramural fibroids
 - ≈ Submucosal fibroids

 * 2 studies reporting postoperative fertility outcomes with follow-up ranging between 3 - 8 years

Significant difference favoring robotic-assisted surgery

No significant difference; comparable outcomes

Significant difference favoring laparoscopic surgery

Favors laparoscopic

↓ Operative time by **53.08 min**

INTUÎTIVE

Data collected through: April 1, 2022

Evidence Navigator: Myomectomy Technical Slides

Systematic literature review & meta-analysis as of April 1, 2022



Myomectomy: Literature search methods

as of April 1, 2022

Monthly searches were conducted in PubMed, Scopus and Embase.

All citations were exported into a reference management system. Duplications were removed. Titles, abstracts and keywords were reviewed for literature review inclusion by Global Evidence Management team.

All robotic-assisted myomectomies performed with da Vinci[®] surgical systems. Publications were identified according to inclusion and exclusion criteria described.

Meta-analysis was performed using RevMan or R software.

22 publications

- 1,756 patients who underwent robotic-assisted surgery (RAS)
- 1,257 patients who underwent laparoscopic surgery (Lap)
- 2,369 patients who underwent open surgery

Level of evidence

40

■ 1b - RCTs

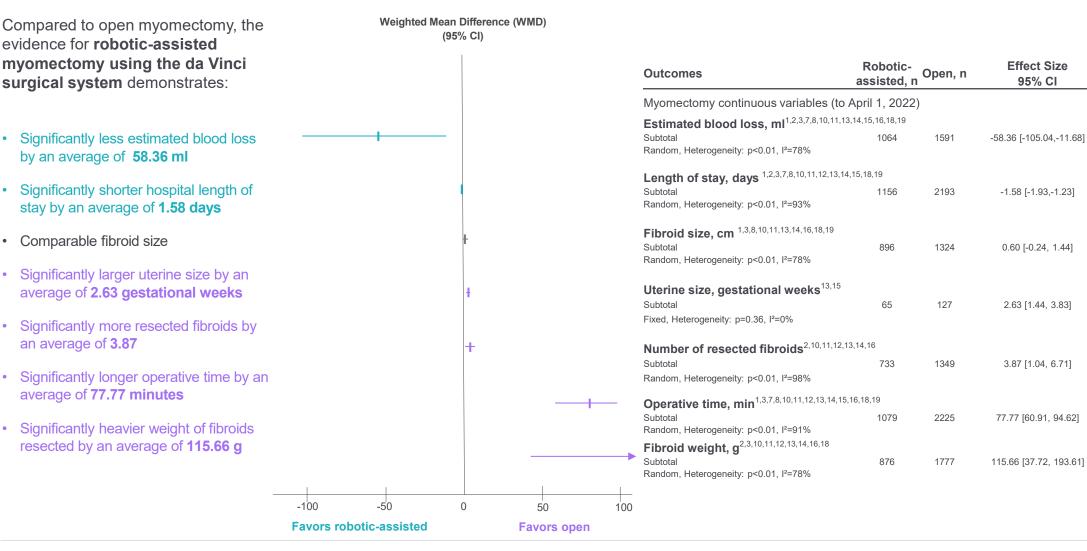
- 2b Prospective cohort studies
- 2c Database studies
- 3b Retrospective cohort studies

•	teria phase	Details	
Ide	ntification phase	All robotics publications (library generated from monthly search proces N = 35,039 library size at the time of search April 1 st , 2022	
Inc	lusion criteria		
1.	Robotic-assisted Myomectomy	Robotic-assisted myomectomy N = 255 (excluded N = 34,784)	
2.	Year ≥ 2010	Articles published ≥ 2010 N = 232 (excluded N = 23)	
3.	LOE = 1b, 2b, 2c, 3b	Articles with LOE 1b, 2b, 2c, 3b N = 53 (excluded N = 179)	
4.	RCT, prospective or retrospective comparative study with comparative cohorts (robotic-assisted vs. laparoscopic and/or open surgery) and sample size > 20 in each cohort	Comparator cohorts N = 38 (excluded N = 15)	
Ex	clusion criteria	N = 16 excluded publications:	
1.	Not in English	N = 2 (EC#1)	
2.	Paper reports on a pediatric population	N = 0 (EC#2)	
3.	Publication is an HTA that was not published in a peer- reviewed journal	N = 0 (EC#3) N = 3 (EC#4)	
4.	Alternate technique/approach (e.g., single port)	N = 9 (EC#5)	
5.	No stratified analysis by study arm (e.g., combines results	N =1 (EC#6)	
	from robotic-assisted, laparoscopic and/or open cohorts)	N =1 (EC#7)	
6.	Myomectomy data mixed with other procedures (e.g., data	N = 0 (EC#8)	
	from multiple surgical procedures combined)		
7.	Original research study does not provide quantitative results for outcomes of interest (i.e., operative time, conversions, estimated blood loss and/or transfusions,		
	complications, length of hospital stay, mortality)		
8.	Original research publication includes redundant patient		

Myomectomy publications: N = 22

Robotic-assisted vs. open myomectomy Summary as of April 1, 2022

 Significant difference favoring robotic-assisted surgery
 No significant difference;
 Significant difference favoring open surgery



INTUÎTIVE

P-value

p=0.01

p<0.01

p=0.16

p<0.01

P<0.01

p<0.01

p<0.01

Robotic-assisted vs. open myomectomy Summary as of April 1, 2022

0.05

0.2

Favors robotic-assisted

20

5

Favors open

Significant difference favoring robotic-assisted surgery No significant difference; open surgery open surgery

Odds ratio (OR) (95% CI)

Compared to open myomectomy, the evidence for **robotic**assisted myomectomy using the da Vinci surgical system demonstrates:

- 77% less likely to experience postoperative ileus
- 62% less likely to receive a blood transfusion
- Comparable rate of postoperative miscarriage
- Comparable rate of readmissions within 30-days
 of surgery
- · Comparable rate of intraoperative complications
- Comparable rate of postoperative complications within 30-days of surgery
- · Comparable rate of submucosal fibroids resected
- · Comparable rate of postoperative livebirths
- · Comparable rate of pedunculated fibroids resected
- · Comparable rate of postoperative pregnancies
- 53% less likely to resect intramural fibroids
- 77% less likely to resect sub-serosal fibroids

$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$		Robotic- assisted, n	Open, n	Effect Size 95% Cl	P-value
Subtotal 321 900 0.23 [0.07, 0.75] p=0.01 Fixed, Heterogeneity: p=0.56, P=0% 944 2091 0.38 [0.29, 0.51] p<0.01		ril 1, 2022)			
Fixed, Heterogeneity: p=0.56, P=0% Blood transfusion, $n(\%)^{1,3,7,10,11,12,13,14,16,18}$ Subtotal 944 2091 0.38 [0.29, 0.51] p<0.01 Fixed, Heterogeneity: p=0.13, P=35% Postop miscarriage, $n(\%)^{5,14}$ Subtotal 49 102 0.22 [0.03, 1.39] p=0.11 Fixed, Heterogeneity: p=29, P=11% Readmission 30-day, $n(\%)^{12,18}$ Subtotal 30-day, $n(\%)^{12,18}$ Subtotal 319 997 0.53 [0.20, 1.40] p=0.2 Fixed, Heterogeneity: p=0.75, P=0% Intraop complications, $n(\%)^{10,12}$ Subtotal 319 997 0.55 [0.29, 1.01] p=0.06 Fixed, Heterogeneity: p=0.27, P=19% Postop complications 30-day, $n(\%)^{3,7,10,11,12,13,14,15,16}$ Subtotal 755 1877 0.60 [0.34; 1.07] p=0.08 Random, Heterogeneity: p<0.01, P=62% Fibroid type - Submucosal, $n(\%)^{3,11,12,18}$ Subtotal 396 1286 0.74 [0.24; 2.30] p=0.61 Random, Heterogeneity: p=0.35, P=0% Postop livebirth, $n(\%)^{5,14}$ Subtotal 49 102 0.89 [0.36, 2.19] p=0.80 Fixed, Heterogeneity: p=0.35, P=0% Fibroid type - Pedunculated, $n(\%)^{3,16,18}$ Subtotal 49 102 1.05 [0.25, 4.40] p=0.88 Fibroid type - Intramural, $n(\%)^{3,12,18}$ Subtotal 49 102 1.05 [0.25, 4.40] p=0.94 Random, Heterogeneity: p=0.09, P=65% Fibroid type - Subseroal, $n(\%)^{3,11,12,18}$ Subtotal 49 102 1.05 [0.25, 4.40] p=0.94 Random, Heterogeneity: p=0.09, P=65% Fibroid type - Subseroal, $n(\%)^{3,11,12,18}$ Subtotal 522 1437 1.77 [1.01; 2.58] p=0.02	Postop ileus, n(%) ^{12,18}				
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Subtotal 944 2091 0.38 [0.29, 0.51] p<0.01	Fixed, Heterogeneity: p=0.56, I ² =0%	0 4 4 4 0 4 0			
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Subtotal 49 102 0.89 [0.36, 2.19] p=0.80 Fixed, Heterogeneity: p=0.35, l²=0% 5000000000000000000000000000000000000	Postop livebirth, n(%) ^{5,14}				
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Subtotal 320 680 1.04 [0.64; 1.69] p=0.88 Fixed, Heterogeneity: p=0.53, l²=0% Postop pregnancies, n(%) ^{5,14} P Postop pregnancies, n(%) ^{5,14} Subtotal 49 102 1.05 [0.25, 4.40] p=0.94 Random, Heterogeneity: p=0.09, l²=65% Fibroid type - Intramural, n(%) ^{3,12,18} p=0.03 Subtotal 396 1286 1.53 [1.05; 2.24] p=0.03 Random, Heterogeneity: p=0.12, l²=54% Fibroid type - Subserosal, n(%) ^{3,11,12,18} p=0.02	Fixed, Heterogeneity: p=0.35, I ² =0%				
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Postop pregnancies, n(%) ^{5,14} Subtotal 49 102 1.05 [0.25, 4.40] p=0.94 Random, Heterogeneity: p=0.09, l²=65% Fibroid type - Intramural, n(%) ^{3,12,18} p=0.03 Subtotal 396 1286 1.53 [1.05; 2.24] p=0.03 Random, Heterogeneity: p=0.12, l²=54% Fibroid type - Subserosal, n(%) ^{3,11,12,18} p=0.02 1.437 1.77 [1.01; 2.58] p=0.02					F
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Fibroid type - Subserosal, n(%) ^{3,11,12,18} Subtotal 522 1437 1.77 [1.01; 2.58] p=0.02			1286	1 53 [1 05: 2 24]	n=0.03
Fibroid type - Subserosal, n(%) ^{3,11,12,18} Subtotal 522 1437 1.77 [1.01; 2.58] p=0.02		000	1200	1.00 [1.00, 2.27]	p-0.00
Subtotal 522 1437 1.77 [1.01; 2.58] p=0.02	Fibroid type - Subserosal $n(\%)^{3,11}$	12,18			
			1437	1 77 [1 01. 2 58]	n=0.02
	Random, Heterogeneity: p=0.02, I ² =71%	JZZ	1407	1.11 [1.01, 2.30]	p=0.02

* Follow up time for the fertility outcomes ranged from 3 years to 8 years

INTUÎTIVE

Robotic-assisted vs. laparoscopic myomectomy Summary as of April 1, 2022

laparoscopic surgery

Compared to laparoscopic myomectomy, the evidence for **robotic-assisted myomectomy using the da Vinci surgical system** demonstrates:

robotic-assisted surgery

Significant difference favoring

comparable outcomes

- Significantly larger resected fibroid size by an average of **0.52 cm**
- · Comparable resected fibroid weight
- Comparable estimated blood loss
- · Comparable number of fibroids resected
- · Comparable length of hospital stay
- Significantly longer operative time by ar average of 53.08 minutes

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Weighted Mean Difference (WMD)

(95% CI)

Favors robotic-assisted

-50

-100

Favors Laparoscopic

100

50

Outcomes	Robotic- assisted, n	Laparoscopic , n	Effect Size 95% Cl	P-value
Myomectomy continuous variables (to April 1, 202	2)		
Fibroid size, cm ^{1,3,4,10,14,16,17,20,21,22}				
Subtotal	705	856	-0.52 [-0.99; -0.06]	p=0.03
Random, Heterogeneity: p<0.01, I ² =				
Fibroid weight, g ^{3,4,9,10,12,13,16,17,20,22}				
Subtotal	793	893	-31.67 [-82.48, 19.14]	p=0.22
Random, Heterogeneity: p<0.01, l²=				
Estimated blood loss, ml ^{1,3,4,6,7,9,10,}	14,16,17,20,21,22			
Subtotal	965	1034	-0.27 [-35.56; 35.02]	p=0.99
Random, Heterogeneity: p<0.01, I ² =	82%			
Number of resected fibroids ^{4,9,10,12}	2,14			
Subtotal	375	422	0.07 [-0.51, 0.66]	p=0.80
Fixed, Heterogeneity: p=0.20, I ² =330	%			
Length of stay, days ^{1,2,3,7,8,10,12,14,17}	,20,22			
Subtotal	852	978	0.13 [-0.10; 0.36]	p=0.27
Random, Heterogeneity: p<0.01, I ² =				
Operative time, min ^{1,3,4,6,7,9,10,12,14,16}	6,17,20,21,22			
Subtotal	1059	1219	53.08 [33.63; 72.53]	p<0.01
Random, Heterogeneity: p<0.01, I ² =	96%			

Robotic-assisted vs. laparoscopic myomectomy

Summary as of April 1, 2022

 Significant difference favoring robotic-assisted surgery
 No significant difference; comparable outcomes
 Significant difference favoring laparoscopic surgery

Odds ratio (OR) (95% CI)

Compared to laparoscopic myomectomy, the evidence for **robotic-assisted myomectomy using the da Vinci surgical system** demonstrates:

- **64%** more likely to resect pedunculated fibroids
- 59% less likely to convert to open surgery
- Comparable rate of postoperative miscarriage
- Comparable rate of postoperative ileus
- Comparable rate of intraoperative complications
- · Comparable rate of postoperative livebirths
- Comparable rate of reoperations within 30-days of surgery
- Comparable rate of postoperative complications within 30-days of surgery
- · Comparable rate of postoperative pregnancies
- Comparable rate of blood transfusions
- · Comparable rate of sub-serosal fibroids resected
- · Comparable rate of submucosal fibroids resected
- Comparable rate of intramural fibroids resected

Outcomes	Robotic- L assisted, n	aparoscopic, n	Effect Size 95% Cl	P-valu
Myomectomy binary variables (to April				
Fibroid type - Pedunculated, n(%) ^{3,1}	6,17,22			
Subtotal	361	407	0.37 [0.19; 0.69]	p<0.01
Fixed, Heterogeneity: p=0.54, I ² =0%				
Conversions, n(%) ^{1,4,7,9,10,12,14,16,17,20}				
Subtotal	708	844	0.41 [0.25, 0.70]	p<0.01
Fixed, Heterogeneity: p=0.81, I ² =0%				
Postop miscarriage, n(%) ^{5,14}				
Subtotal	49	52	0.27 [0.04, 1.72]	p=0.17
Fixed, Heterogeneity: p=0.28, I ² =16%				
Postop ileus, n(%) ^{12,22}				
Subtotal	277	307	0.61 [0.13, 2.89]	p=0.53
Fixed, Heterogeneity: p=41, I ² =0%				
Intraop complications, n(%) ^{10,12}				
Subtotal	319	348	0.63 [0.12, 3.35]	p=0.59
Random, Heterogeneity: p=0.06, I ² =71%				
Postop livebirth, n(%) ^{5,14}				
Subtotal	49	52	0.76 [0.29, 2.02]	p=0.59
Fixed, Heterogeneity: p=0.35, I ² =0%				
Reoperation 30-day, n(%) ^{1,6,22}				
Subtotal	346	343	0.77 [0.18, 3.37]	p=0.73
Fixed, Heterogeneity: p=0.90, I ² =0%				
Postop complications 30-day, n(%) ³	,4,6,7,9,10,12,14,16,2	0		
Subtotal	877	925	0.88 [0.62, 1.24]	p=0.06
Fixed, Heterogeneity: p=0.40, l ² =4%				
Postop pregnancies, n(%) ^{5,14}				
Subtotal	49	52	0.89 [0.39, 2.08]	p=0.80
Fixed, Heterogeneity: p=0.26, I ² =22%		-	,	1
Blood transfusion, n(%) ^{1,3,4,6,7,9,10,12,1}	4,16,17,22			
Subtotal	999	1086	1.06 [0.72, 1.58]	p=0.75
Fixed, Heterogeneity: p=0.34, I ² =11%				P 0.10
Fibroid type - Subserosal, n(%) ^{3,12,17}	,22			
Subtotal	437	482	1.18 [0.89; 1.57]	p=0.24
Fixed, Heterogeneity: p=0.64, I ² =0%				P 0.21
Fibroid type - Submucosal, n(%) ^{3,4,9,}	12,17,22			
Subtotal	483	556	1.29 [0.85; 1.95]	p=0.24
Fixed, Heterogeneity: p=0.16, I ² =37%				
Fibroid type - Intramural, n(%) ^{3,12,17,2}	22			
Subtotal	437	482	1.98 [0.96; 4.09]	p=0.07
Random, Heterogeneity: p<0.01, l ² =85%	-	-		1
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* Follow up time for the fertility outcomes ranged from 3 years to 8 years

0.05

0.2

Favors robotic-assisted

5

Favors laparoscopic

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Important safety information

Surgical Risks:

Surgical risks for myomectomy (removal of fibroid tumors) include: tear or hole in uterus, split or bursting of the uterus, pre-term (early) birth, spontaneous abortion. Uterine tissue may contain unsuspected cancer. The cutting or morcellation of uterine or fibroid tissue during surgery may spread cancer and decrease the long-term survival of patients.

Important Safety Information

Serious complications may occur in any surgery, including surgery with a da Vinci system, up to and including death. Examples of serious or life-threatening complications, which may require prolonged and/or unexpected hospitalization and/or reoperation, include but are not limited to, one or more of the following: injury to tissues/organs, bleeding, infection, and internal scarring that can cause long-lasting dysfunction/pain.

Risks specific to minimally invasive surgery, including surgery with a da Vinci system, include but are not limited to, one or more of the following: temporary pain/nerve injury associated with positioning; a longer operative time, the need to convert to an open approach, or the need for additional or larger incision sites. Converting the procedure could result in a longer operative time, a longer time under anesthesia, and could lead to increased complications.

Contraindications applicable to the use of conventional endoscopic instruments also apply to the use of all da Vinci instruments.

For important safety information, including surgical risks and considerations, please also refer to <u>www.intuitive.com/safety</u>. For a product's intended use and/or indications for use, risks, full cautions and warnings, please refer to the associated User Manual(s).

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®/da Vinci 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) 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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