

Gynecologic non-cancer surgery



This graphic gives a visual overview of the procedure-specific risks of symptomatic venous thromboembolism (deep vein thrombosis or pulmonary embolism) and bleeding requiring reintervention with and without thromboprophylaxis during the first 4 weeks after gynecologic non-cancer surgery



With prophylaxis Without prophylaxis

Establishing risk of venous thromboembolism (VTE)

Risk factors

Age 75+ BMI 35+ kg/m²

VTE in first-degree relative

Parent, full sibling, or child



Harms vs benefits

Pharmacological thromboprophylaxis reduces the risk of VTE but increases the risk of bleeding



Evidence certainty

★★★★★ High
★★★★☆ Moderate
★★★☆☆ Low
★☆☆☆☆ Very low

VTE Bleeds

		Low			Medium			High			Bleed risk				
		0%	3%	6%	0%	3%	6%	0%	3%	6%	0%	3%	6%		
Deep endometriosis surgery	Minimally-invasive*	0.2	0.4		0.4	0.9		0.8	1.7		0.6	0.9			
Myomectomy	Minimally-invasive	<0.1	<0.1		<0.1	0.1		<0.1	0.1		0.3	0.5			
Management of adnexal torsion	Laparoscopic	<0.1	0.1		<0.1	0.1		0.1	0.2		NR	NR			
	Open	0.1	0.3		0.2	0.5		0.5	1.1		NR	NR			
Oophorectomy	Minimally-invasive	<0.1	0.1		0.1	0.3		0.3	0.6		NR	NR			
Ovarian cystectomy	Minimally-invasive	<0.1	0.1		<0.1	0.1		0.1	0.2		NR	NR			
Sterilization†	Minimally-invasive	<0.1	<0.1		<0.1	<0.1		<0.1	0.1		NR	NR			
	Transvaginal oocyte retrieval	<0.1	<0.1		<0.1	<0.1		<0.1	0.1		<0.1	<0.1			
Sacrocolpopexy	Minimally-invasive	0.2	0.4		0.4	0.9		0.8	1.7		0.2	0.3			
	Open	0.5	1.1		1.0	2.1		2.0	4.3		<0.1	<0.1			
Vaginal pelvic organ prolapse surgery, without mesh	With hysterectomy	<0.1	0.1		0.1	0.3		0.3	0.6		0.4	0.6			
	Without hysterectomy	<0.1	<0.1		<0.1	0.1		<0.1	0.1		0.8	1.2			
Vaginal sling surgery for urinary incontinence	Transvaginal mesh	0.1	0.2		0.1	0.3		0.3	0.7		0.6	0.9			
	<0.1	<0.1		<0.1	<0.1		<0.1	0.1		0.1	0.2		NR	NR	
Urethral bulking, vaginal	<0.1	<0.1		<0.1	<0.1		<0.1	<0.1		NR	NR		★☆☆☆☆	★☆☆☆☆	
Uterine artery embolization	0.1	0.2		0.2	0.4		0.4	0.8		<0.1	<0.1		★☆☆☆☆	★☆☆☆☆	
First-trimester surgical abortion	<0.1	<0.1		<0.1	<0.1		<0.1	<0.1		0.5	0.8		★☆☆☆☆	★☆☆☆☆	
Second-trimester surgical abortion	0.1	0.2		0.1	0.3		0.3	0.6		0.3	0.5		★☆☆☆☆	★☆☆☆☆	
Supracervical hysterectomy	Laparoscopic	0.0	0.1		0.1	0.2		0.2	0.4		0.5	0.8		★★★★★	★★★★★
	Open	0.3	0.6		0.6	1.3		1.2	2.5		2.1	3.2		★★★★★	★★★★★
Total hysterectomy	Minimally-invasive	0.0	0.1		0.1	0.2		0.2	0.5		0.5	0.8		★★★★★	★★★★★
	Open	0.3	0.6		0.6	1.3		1.2	2.5		2.1	3.2		★★★★★	★★★★★
	Vaginal	0.0	0.1		0.1	0.3		0.3	0.6		0.4	0.6		★★★★★	★★★★★

* With or without bowel surgery

† By means of tubal occlusion