

## Appendix 1. Procedure Codes for Inclusion Criteria (Prolapse Repair) and Identification of Concomitant Procedures (Incontinence Procedure, Hysterectomy Procedure)

Outpatient CPT <sup>1</sup>		Inpatient ICD-9	
Prolapse Repair			
57120	Colpocleisis <sup>3</sup>	69.21	Uterine suspension
57240	Repair of cystocele	69.22	Other uterine suspension
57250	Repair of rectocele	69.23	Vaginal repair of chronic inversion of uterus
57260	Repair of cystocele and rectocele	69.29	Other repair of uterus and supporting structures
57265	Repair of cystocele, rectocele, and enterocele	69.98	Other operation on supporting structure of the uterus
57268	Repair of enterocele via vaginal approach	70.50	Repair of cystocele and rectocele
57282	Colpopexy via extraperitoneal vaginal approach	70.51	Repair of cystocele
57283	Colpopexy via intraperitoneal vaginal approach	70.52	Repair of rectocele
57284	Paravaginal defect repair	70.53	Repair of cystocele and rectocele with graft <sup>2</sup>
58152	Hysterectomy and cystocele	70.54	Repair of cystocele with graft <sup>2</sup>
58267	Hysterectomy and cystocele	70.55	Repair of rectocele with graft <sup>2</sup>
58270	Hysterectomy with repair of enterocele	70.62	Vaginal reconstruction
58280	Hysterectomy Vaginal and partial vaginectomy with repair of enterocele	70.64	Vaginal reconstruction with mesh <sup>2</sup>
58292	Hysterectomy Vaginal (>250 g) with removal tube +/- ovary and repair of enterocele	70.77	Vaginal suspension
58293	Hysterectomy vaginal (>250 g) with colpo-urethrocystopexy	70.78	Vaginal suspension with graft <sup>2</sup>
58294	Hysterectomy with repair of enterocele	70.80	Colpocleisis <sup>3</sup>
58400	Uterine suspension	70.92	Other operation of the cul-de-sac (includes obliteration of cul-de-sac and enterocele repair)
58410	Uterine suspension with presacral sympathectomy	70.93	Other operation of the cul-de-sac with graft <sup>2</sup>
		70.94	Other operation of the cul-de-sac with biologic graft
		70.95	Other operation of the cul-de-sac with synthetic mesh <sup>2</sup>
Incontinence Procedure			
51715	Cystoscopic injection of urethral bulking agent	57.85	Cystourethroplasty
51840	Retropubic urethral suspension	57.89	Bladder suspension not otherwise specified
51845	Needle suspension	59.30	Plication of the urethrovesical junction
57288	Mid-urethral sling	59.40	Suprapubic sling operation
57289	Pereyra procedure	59.50	Retropubic urethral suspension
		59.60	Paraurethral suspension
		59.70	Other repair for stress urinary incontinence
Hysterectomy Procedure			
58150-58180, 58260-58280		68.3-68.59, 68.9	

<sup>1</sup>Classified as mesh use if modifier was present (57267: Insertion of mesh or other prosthesis for repair of pelvic floor defect)

<sup>2</sup>Classified as mesh use

<sup>3</sup>Included for recurrent POP only

Dallas K, Elliott C, Syan R, Sohlberg E, Enemchukwu E, Rogo-Gupta L. Association between concomitant hysterectomy and repeat surgery for pelvic organ prolapse repair in a cohort of nearly 100,000 women. *Obstet Gynecol* 2018; 132.

The authors provided this information as a supplement to their article.

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## Appendix 2. Comparison of Hysterectomy and Nonhysterectomy Propensity Matches Groups

Characteristics <sup>1</sup>	No Hysterectomy (n=42,333)	Hysterectomy (n=42,333)	RR (95% CI)
<b>Repeat Surgery</b>			
Anterior	869 (2.1%)	596 (1.4%)	1.45 (1.31-1.62)
Apical	1,090 (2.6%)	795 (1.9%)	1.37 (1.25-1.50)
Posterior	865 (2.0%)	547 (1.3%)	1.58 (1.42-1.76)
Any	1,860 (4.4%)	1,265 (3.0%)	1.47 (1.37-1.57)
<b>Perioperative Complication</b>			
Transfusion	465 (1.1%)	1,042 (2.5%)	0.45 (0.40-0.50)
Hemorrhage	392 (0.9%)	630 (1.5%)	0.62 (0.55-0.71)
Infection	162 (0.4%)	362 (0.9%)	0.45 (0.37-0.54)
Urologic injury/ Fistula	243 (0.6%)	394 (0.9%)	0.62 (0.53-0.72)

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