

**Supplemental Digital Content 1: Patient Distribution by International Classification of Diseases, Clinical Modification 9 (ICD-9): Diagnostic and Procedure Codes**

**ICD-9 Diagnostic Codes, Grouped by Type of Surgery Analyzed in the Study**

Codes	No. (%)
Hernia repair	1,761 (100)
550.90 Unilateral or unspecified inguinal hernia without or gangrene	1,480 (84)
550.91 Recurrent unilateral or unspecified inguinal hernia without obstruction or gangrene	92 (5.2)
550.92 Bilateral inguinal hernia without obstruction or gangrene	172 (9.8)
550.93 Recurrent bilateral inguinal hernia without obstruction or gangrene	17 (1)
Vaginal hysterectomy	416 (100)
179 Malignant neoplasm of uterus-part unspecified	3 (0.7)
180 Malignant neoplasm of cervix uteri	9 (2.2)
182 Malignant neoplasm of body of uterus	11 (2.6)
218 Uterine leiomyoma	29 (7)
219 Other benign neoplasm of uterus	33 (7.9)
615 Inflammatory diseases of uterus except cervix	1 (0.2)
618 Genital prolapse	319 (76.7)
629 Other disorders of female genital organs	11 (2.6)
Abdominal hysterectomy abdominal	350 (100)
179 Malignant neoplasm of uterus-part unspecified	21 (6)
180 Malignant neoplasm of cervix uteri	20 (5.7)
182 Malignant neoplasm of body of uterus	25 (7.1)
218 Uterine leiomyoma	185 (52.9)
219 Other benign neoplasm of uterus	62 (17.7)
615 Inflammatory diseases of uterus except cervix	4 (1.1)
618 Genital prolapse	3 (0.9)
629 Other disorders of female genital organs	30 (8.6)
Thoracotomy	402 (100)
162 Malignant neoplasm of trachea bronchus and lung	314 (78.1)
163 Malignant neoplasm of pleura	2 (0.5)
195 Malignant neoplasm of other and ill-defined sites	37 (9.2)
212 Benign neoplasm of respiratory and intrathoracic organs	23 (5.7)
510 Empyema	2 (0.5)
518 Other diseases of lung	19 (4.7)
860 Traumatic pneumothorax and hemothorax	5 (1.2)

## ICD-9 Surgical Procedure Codes, Grouped by Type of Surgery Analyzed in the Study

Codes	No. (%)
Hernia repair	1,761 (100)
53.00 Unilateral repair of inguinal hernia	62 (3.5)
53.05 Repair of direct inguinal hernia with graft or prosthesis	1,528 (86.8)
53.10 Bilateral repair of inguinal hernia	6 (0.3)
53.16 Bilateral repair of inguinal hernia, one direct and one indirect, with graft or prosthesis	9 (0.5)
53.17 Bilateral inguinal hernia repair with graft or prosthesis	150 (8.5)
53.29 Other unilateral femoral herniorrhaphy	5 (0.3)
53.9 Other hernia repair	1 (0.1)
Vaginal hysterectomy	416 (100)
68.59 Other and unspecified vaginal hysterectomy	227 (54.6)
68.7 Radical vaginal hysterectomy	14 (3.4)
68.9 Other and unspecified hysterectomy	11 (2.6)
68.59 Other Vaginal Hysterectomy	164 (39.4)
+ 70.5 + Repair of cystocele and rectocele	
Abdominal hysterectomy	350 (100)
68.39 Other and unspecified subtotal abdominal hysterectomy	43 (12.3)
68.49 Other and unspecified total abdominal hysterectomy	256 (73.1)
68.6 Radical abdominal hysterectomy	41 (11.7)
68.9 Other and unspecified hysterectomy	10 (2.9)
Thoracotomy	402 (100)
32.29 Other local excision or destruction of lesion or tissue of lung	40 (10)
32.3 Segmental resection of lung	58 (14.4)
32.4 Lobectomy of lung	242 (60.2)
32.5 Complete pneumonectomy	32 (8)
33.4 Repair and plastic operation on lung and bronchus	4 (1)
34.02 Exploratory thoracotomy	8 (2)
34.3 Excision or destruction of lesion or tissue of mediastinum	6 (1.5)
34.51 Decortication of lung	5 (1.2)
34.7 Repair of chest wall	1 (0.2)
34.99 Other operations on thorax	6 (1.5)