Appendix 1. ICD-9-CM and CPT procedure codes used to identify surgeries of interest

Breast Surgeries

Category 1: Limited procedures (reduction mammoplasty, mastopexy without implant, and mastectomy without axillary dissection or reconstruction)

ICD-9-CM procedure codes

85.23 Subtotal mastectomy
85.31 Unilateral reduction mammoplasty
85.32 Bilateral reduction mammoplasty
85.34 Other unilateral subcutaneous mammectomy
85.36 Other bilateral subcutaneous mammectomy
85.4 Mastectomy
85.41 Unilateral simple mastectomy
85.42 Bilateral simple mastectomy
85.45 Unilateral radical mastectomy
85.46 Bilateral radical mastectomy
85.50 Augmentation mammoplasty, not otherwise specified
85.6 Mastopexy

CPT procedure codes

19140 Mastectomy for gynecomastia
19160 Mastectomy, partial
19180 Mastectomy, simple
19182 Mastectomy, subcutaneous
19316 Mastopexy

19318 Reduction mammaplasty

19324 Mammaplasty augmentation, without prosthetic implant

**Category 2: Procedures that involve implants**

**ICD-9-CM procedure codes**

- 85.33 Unilateral subcutaneous mammectomy with synchronous implant
- 85.35 Bilateral subcutaneous mammectomy with synchronous implant
- 85.53 Unilateral breast implant
- 85.54 Bilateral breast implant

**CPT procedure codes**

- 19325 Mammaplasty, augmentation, with prosthetic implant
- 19340 Immediate insertion of breast prosthesis following mastopexy or mastectomy
- 19342 Delay insertion of breast prosthesis following mastopexy or mastectomy
- 19370 Open periprosthetic capsulotomy breast
- 19371 Periprosthetic capsulectomy breast

**Category 3: Procedures that involve axillary dissection**

**ICD-9-CM procedure codes**

- 85.43 Unilateral extended simple mastectomy
- 85.44 Bilateral extended simple mastectomy
- 85.47 Unilateral extended radical mastectomy
- 85.48 Bilateral extended radical mastectomy
CPT procedure codes

19162 Mastectomy partial, with axillary lymphadenectomy
19200 Mastectomy, radical, including pectoral muscles and axillary lymph nodes
19220 Mastectomy, radical, including pectoral muscles, and axillary and internal mammary lymph nodes
19240 Mastectomy, modified radical, including axillary lymph nodes, with or without pectoralis minor muscle, but excluding pectoralis major muscle

Category 4: Involve reconstruction and/or flaps

ICD-9-CM procedure codes

85.7 Total reconstruction of breast

CPT procedure codes

19357 Breast reconstruction, immediate or delayed, with tissue expander, including subsequent expansion
19361 Breast reconstruction with latissimus dorsi flap, with or without prosthetic implant
19364 Breast reconstruction with free flap
19366 Breast reconstruction with other technique
19367 Breast reconstruction with transverse rectus abdominis myocutaneous flap (TRAM), single pedicle, including closure of donor site
19369 Breast reconstruction with transverse rectus abdominis myocutaneous flap (TRAM), double pedicle, including closure of donor site

Cesarean Section

ICD-9-CM procedure codes

74.0 Classical cesarean section
74.1 Low cervical cesarean section
74.2 Extraperitoneal cesarean section
74.4 Cesarean section of other specified type
74.9 Cesarean section of unspecified type

74.99 Other cesarean section of unspecified type