

Table, Supplemental digital content 3. ICD-9, CPT and Procedure immediate breast reconstruction codes.

Nationwide Inpatient Sample (NIS) database inclusion criteria	
ICD-9 code	Description IBR
<i>Implant-based breast reconstruction</i>	
85.33	Unilateral subcutaneous mastectomy with synchronous implant
85.35	Bilateral subcutaneous mastectomy with synchronous implant
85.53	Unilateral breast implant
85.54	Bilateral breast implant
85.95	Insertion breast tissue expander
85.96	Removal breast tissue expander
85.84	Breast pedicle graft
85.85	Breast muscle graft
<i>Autologous breast reconstruction</i>	
85.71	Latissimus dorsi myocutaneous flap (LD), pedicled
85.72	Transverse rectus abdominis myocutaneous (TRAM) flap, pedicled
85.73	Transverse rectus abdominis myocutaneous (TRAM) flap, free
85.74	Deep inferior epigastric artery perforator (DIEP) flap, free
85.75	Superficial inferior epigastric artery (SIEA) flap, free
85.76	Gluteal artery perforator (GAP) flap, free
National Surgical Quality Improvement Project (NSQIP)	
CPT code	Description IBR
<i>Implant-based breast reconstruction</i>	
19340	Immediate insertion of breast prosthesis following mastopexy, mastectomy or in reconstruction
19342	Delayed insertion of breast prosthesis following mastopexy, mastectomy, or in reconstruction
19357	Breast reconstruction, immediate or delayed, with tissue expander, including subsequent expansion
<i>Autologous breast reconstruction</i>	
19361	Breast reconstruction with latissimus dorsi flap, without prosthetic implant
19364	Breast reconstruction with free flap
19367	Breast reconstruction with transverse rectus abdominis myocutaneous flap (TRAM), single pedicle, including closure of donor site;
19368	Breast reconstruction with transverse rectus abdominis myocutaneous flap (TRAM), single pedicle, including closure of donor site; with microvascular anastomosis (supercharging)
19369	Breast reconstruction with transverse rectus abdominis myocutaneous flap (TRAM), double pedicle, including closure of donor site)

The Surveillance, Epidemiology and End Result (SEER)

Procedure coding Description IBR

Implant-based breast reconstruction

45	Simple mastectomy, NOS, Unilateral, implant reconstruction
49	Simple mastectomy, NOS, Bilateral, implant reconstruction
55	Modified radical mastectomy, Unilateral, implant reconstruction
59	Modified radical mastectomy, Bilateral, implant reconstruction
66	Radical mastectomy, Unilateral, implant reconstruction
73	Radical mastectomy, Bilateral, implant reconstruction

Autologous breast reconstruction

44	Simple mastectomy, NOS, Unilateral, tissue reconstruction
48	Simple mastectomy, NOS, Bilateral, tissue reconstruction
54	Modified radical mastectomy, Unilateral, tissue reconstruction
58	Modified radical mastectomy, Bilateral, tissue reconstruction
65	Radical mastectomy, Unilateral, tissue reconstruction
69	Radical mastectomy, Bilateral, tissue reconstruction

Combined implant-based and autologous breast reconstruction

46	Simple mastectomy, NOS, Unilateral, combined reconstruction
75	Simple mastectomy, NOS, Bilateral, combined reconstruction
56	Modified radical mastectomy, Unilateral, combined reconstruction
63	Modified radical mastectomy, Bilateral, combined reconstruction
67	Radical mastectomy, Unilateral, combined reconstruction
74	Radical mastectomy, Bilateral, combined reconstruction
