

Supplemental Digital Content 1: ICD and CPT Codes

Type	Codes
Bilateral Mastectomy	
ICD-10 procedure codes	
Bilateral mastectomy	Z90.13
Unilateral mastectomy (both codes necessary)	Z90.11 (right) and Z90.12 (left)
CPT code with bilateral procedure code modifier ("50")	19180, 19200, 19220, 19240, 19303, 19304, 19305, 19306, 19307
Breast Cancer	
ICD-10 diagnosis codes (right side)	C50.011, C50.111, C50.211, C50.311, C50.411, C50.511, C50.611, C50.811, C50.911, D05.01, D05.11, D05.81, D05.91
ICD-10 diagnosis codes (left side)	C50.012, C50.112, C50.212, C50.312, C50.412, C50.512, C50.612, C50.812, C50.912, D05.02, D05.12, D05.82, D05.92
Breast Reconstruction*	
ICD-10 procedure codes	
NOS	0H0T3JZ, 0H0U3JZ, 0H0V3JZ, 0HRT07Z, 0HRT0JZ, 0HRT0KZ, 0HRU07Z, 0HRU0JZ, 0HRU0KZ, 0H0T0JZ, 0H0T0KZ, 0H0T3KZ, 0H0T0JZ, 0H0T0KZ, 0H0T3JZ, 0H0T3KZ, 0H0U0JZ, 0H0U0KZ, 0H0UK3Z, 0HRT0JZ, 0HRT0KZ, 0HRT3JZ, 0HRT3KZ, 0HRU0JZ, 0HRU0KZ, 0HRU3JZ, 0HRU3KZ, 0HUTOJZ, 0HUT3JZ, 0HUT3KZ, 0HUU0JZZ, 0HUU0KZ, 0HUU3JZ, 0HUU3KZ, 0HQW0ZZ, 0HQW3ZZ, 0HQW7ZZ, 0HQW8ZZ, 0HQWXZZ, 0HQX0ZZ, 0HQX3ZZ, 0HQX7ZZ, 0HQX8ZZ, 0HQXXZZ, 0HRW07Z, 0HRW0JZ, 0HRW0KZ, 0HRW37Z, 0HRW3JZ, 0HRW3KZ, 08RWX7Z, 0HRWXJZ, 0HRWXKZ, 0HRX07Z, 0HRX0JZ, 0HRX0KZ, 0HRX37Z, 0HRX3JZ, 0HRX3KZ, 0HRXX7Z, 0HRXXJZ, 0HRXXKZ, 0HUW07Z, 0HUW0JZ, 0HUW0KZ, 0HUW37Z, 0HUW3JZ, 0HUW3KZ, 0HUW77Z, 0HUW7JZ, 0HU8JZ, 0HUX8KZ, 0HUXX7Z, 0HUXXJZ, 0HUXXKZ, 0HUX87Z, 0HUX7KZ, 0HUX7JZ, 0HUX77Z, 0HUX3KZ, 0HUX3JZ, 0HUX37Z, 0HUX0KZ, 0HUX0JZ, 0HUX07Z, 0HUWXKZ, 0HUWXJZ, 0HUWX7Z, 0HUW8KZ, 0HUWHAZ, 0HUW87Z, 0HUW7KZ, 0H0T0ZZ, 0H0T3ZZ, 0HOU0ZZ, 0HOU3ZZ, 0H0V0Z, 0H0V3ZZ, 0HMTXZZ, 0HMIUXZZ, 0HMVXZZ, 0HQT0ZZ, 0HQT3ZZ, 0HQT7ZZ, 0HQT8ZZ, 0HQU0ZZ, 0HQU3ZZ, 0HQU7ZZ, 0HQU8ZZ, 0HQV0ZZ, 0HQV3ZZ, 0HQV7ZZ, 0HQV8ZZ, 0HQY0ZZ, 0HQY3ZZ, 0HQY7ZZ, 0HQY8ZZ, 0HRT07Z, 0HRT0KZ, 0HRT37Z, 0HRT3KZ, 0HRU07Z, 0HRU0KZ, 0HRU37Z, 0HRU3KZ, 0HRV07Z, 0HRV0KZ, 0HRV37Z, 0HRV3KZ, 0HUT07Z, 0HUTOJZ, 0HUT0KZ, 0HUT37Z, 0HUT3JZ, 0HUT3KZ, 0HUT77Z, 0HUT7JZ, 0HUT7KZ, 0HUT87Z, 0HUT8JZ, 0HUT8KZ, 0HUU07Z, 0HUU0JZ, 0HUU0KZ, 0HUU37Z, 0HUU3JZ, 0HUU3KZ, 0HUU77Z, 0HUU7JZ, 0HUU7KZ, 0HUU87Z, 0HUU8JZ, 0HUU8KZ, 0HUV07Z, 0HUV0JZ, 0HUV0KZ, 0HUV37Z, 0HUV3JZ, 0HUV3KZ, 0HUV77Z, 0HUV7JZ, 0HUV7KZ, 0HUV87Z, 0HUV8JZ, 0HUV8KZ, 3E00X3Z, 3E00XBZ, 3E00XKZ, 3E00XMZ
Implant	0H0T0JZ, 0H0T3JZ, 0H0U0JZ, 0H0U3JZ, 0HRT0JZ, 0HRT3JZ, 0HRU0JZ, 0HRU3JZ, 0HRV0JZ, 0HRV3JZ, 0H0V0JZ, 0H0V3JZ, 0H0T07Z, 0H0T0JZ, 0H0T0KZ, 0H0T3JZ, 0H0T3KZ, 0H0U07Z, 0H0U0JZ, 0H0U0KZ, 0H0U3JZ,

	0H0U3KZ, 0HRT0JZ, 0HRT0KZ, 0HRT3JZ, 0HRT3KZ, 0HRU0JZ, 0HRU0KZ, 0HRU3JZ, 0HRU3KZ, 0HUTOJZ, 0HUTOKZ, 0HUT3JZ, 0HUT3KZ, 0HUU0JZ, 0HUU0KZ, 0HUU3JZ, 0HUU3KZ, 0HOV07Z, 0HOV0JZ, 0HOV0KZ, 0HOV37Z, 0HOV3JZ, 0HOV3KZ, 0HVU0JZ, 0HVU3JZ, 0HWTOJZ, 0HWTOKZ, 0HWU0JZ, 0HWU3JZ, 0HPT0JZ, 0HPT3JZ, 0HPU0JZ, 0HPU3JZ, 0HHT0NZ, 0HHT3NZ, 0HHT7NZ, 0HHT8NZ, 0HHU0NZ, 0HHU3NZ, 0HHU7NZ, 0HHU8NZ, 0HHV0NZ, 0HHV3NZ, 0HHV7NZ, 0HHV8NZ, 0HHW0NZ, 0HH3NZ, 0HHW7NZ, 0HHW8NZ, 0HHX0NZ, 0HHX3NZ, 0HHX7NZ, 0HHX8NZ, 0HPT0NZ, 0HPT3NZ, 0HPU0NZ, 0HPU3NZ
Autologous, NOS	0HRT37Z, 0HRU37Z, 0HRV37Z, 0JD03ZZ, 0JD13ZZ, 0JD43ZZ, 0JD53ZZ, 0JD63ZZ, 0JD73ZZ, 0JD83ZZ, 0JD93ZZ, 0JDB3ZZ, 0JDC3ZZ, 0JDD3ZZ, 0JDF3ZZ, 0JDG3ZZ, 0JDH3ZZ, 0JDJ3ZZ, 0JDK3ZZ, 0JDL3ZZ, 0JDM3ZZ, 0JDN3ZZ, 0JDP3ZZ, 0JDQ3ZZ, 0JDR3ZZ, 0HRT07Z, 0HRT0JZ, 0HRT0KZ, 0HRU07Z, 0HRU0JZ, 0HRU0KZ
Autologous, pedicled	0HRT075, 0HRU075, 0HRV075, 0KXK0Z6, 0KXK4Z6, 0KXL0Z6, 0KXL4Z6, 0HX5XZZ, 0HX0XZZ, 0HX1XZZ, 0HX4XZZ, 0HX5XZZ, 0HX6XZZ, 0HX7XZZ, 0HX8XZZ, 0HXAXZZ, 0HXBXZZ, 0HXCXZZ, 0HXDXZZ, 0HDEXZZ, 0HFXZZ, 0HGXZZ, 0HXHXZZ, 0HXJXZZ, 0HXKXZZ, 0HXLXZZ, 0HXMXZZ, 0HGNXZZ, 0H80XZZ, 0H81XZZ, 0H84XZZ, 0H85XZZ, 0H86XZZ, 0H87XZZ, 0H88XZZ, 0H8AXZZ, 0H8BXZZ, 0H8CXZZ, 0H8DXZZ, 0H8EXZZ, 0H8FXZZ, 0H8GXZZ, 0H8HXZZ, 0H8JXZZ, 0H8KXZZ, 0H8LXZZ, 0H8MXZZ, 0H8NXZZ, 0KXH0ZZ, 0KXH4ZZ, 0KXJ0ZZ, 0KXJ4ZZ, 0HX0XZZ, 0HX1XZZ, 0HX4XZZ, 0HX5XZZ, 0HX6XZZ, 0HX7XZZ, 0HX8XZZ, 0HXAXZZ, 0HXBXZZ, 0HXCXZZ, 0HXDXZZ, 0HDEXZZ, 0HFXZZ, 0HGXZZ, 0HXHXZZ, 0HXJXZZ, 0HXKXZZ, 0HXLXZZ, 0HXMXZZ, 0HGNXZZ, 0H00ZB, 0JX00ZC, 0JX03ZB, 0JX03ZC, 0JX10ZB, 0JX10ZC, 0JX13ZB, 0JX13ZC, 0JX40ZB, 0JX40ZC, 0JX43ZB, 0JX43ZC, 0JX50ZB, 0JX50ZC, 0JX53ZB, 0JX53ZC, 0JX60ZB, 0JX60ZC, 0JX63ZB, 0JX63ZC, 0JX70ZB, 0JX70ZC, 0JX73ZB, 0JX73ZC, 0JX80ZB, 0JX80ZC, 0JX83ZB, 0JX83ZC, 0JX90ZB, 0JX90ZC, 0JX93ZB, 0JX93ZC, 0JXB0ZB, 0JXB0ZC, 0JXB3ZB, 0JXB3ZC, 0JXC0ZB, 0JXC0ZC, 0JXC3ZB, 0JXC3ZC, 0JXD0ZB, 0JXD0ZC, 0JXD3ZB, 0JXD3ZC, 0JXF0ZB, 0JXF0ZC, 0JXF3ZB, 0JXF3ZC, 0JXG0ZB, 0JXG0ZC, 0JXG3ZB, 0JXG3ZC, 0JXH0ZB, 0JXH0ZC, 0JXH3ZB, 0JXH3ZC, 0JXL0ZB, 0JXL0ZC, 0JXL3ZB, 0JXL3ZC, 0JXM0ZB, 0JXM0ZC, 0JXM3ZB, 0JXM3ZC, 0JXN0ZB, 0JXN0ZC, 0JXN3ZB, 0JXN3ZC, 0JXP0ZB, 0JXP0ZC, 0JXP3ZB, 0JXP3ZC, 0JXQ0ZB, 0JXQ0ZC, 0JXQ3ZB, 0JXQ3ZC, 0JXR0ZB, 0JXR0ZC, 0JXR3ZB, 0JXR3ZC
Autologous, free	0HRT076, 0HRU076, 0HRV076, 0HRT077, 0HRU077, 0HRV077, 0HRT078, 0HRU078, 0HRV078, 0HRT079, 0HRU079, 0HRV079
CPT/HCPCS code	
NOS	19324, 19350, 19366, 19380
Implant	19325, 19340, 19342, 19567, L8600
Autologous, pedicled	19361, 19367-19369
Autologous, free	19364, S2066-S2068
Exclusions	

ICD-10 diagnosis codes	
Breast cancer (both sides)	<u>Right:</u> C50.011, C50.111, C50.211, C50.311, C50.411, C50.511, C50.611, C50.811, C50.911, D05.01, D05.11, D05.81, D05.91 <u>Left:</u> C50.012, C50.112, C50.212, C50.312, C50.412, C50.512, C50.612, C50.812, C50.912, D05.02, D05.12, D05.82, D05.92
Abbreviations: ICD-10, International Classification of Diseases Tenth Revision; CPT/HCPCS, Current Procedural Terminology/Healthcare Common Procedures Classification System; NOS, not otherwise specified.	

Supplementary Table 1: ICD and CPT Codes