

**Appendix**

TABLE E-1 ICD-9-CM and CPT Codes Used to Identify Patients Who Had Undergone Below-the-Knee Orthopaedic Surgery

	CPT Codes	ICD-9-CM Codes
Foot/ankle surgery	27605, 27606, 27610, 27612, 27620, 27625, 27626, 27647, 27650, 27652, 27654, 27675, 27676, 27680, 27681, 27690, 27691, 27695, 27696, 27698, 27700, 27702, 27703, 27704, 27730, 27732, 27734, 27766, 27769, 27792, 27814, 27822, 27823, 27826, 27827, 27828, 27846, 27848, 27870, 27871, 27888, 27889, 28005, 28008, 28010, 28011, 28020, 28022, 28024, 28035, 28039, 28041, 28047, 28050, 28052, 28054, 28060, 28062, 28070, 28072, 28086, 28088, 28090, 28092, 28100, 28102, 28103, 28104, 28106, 28107, 28108, 28110, 28111, 28112, 28113, 28114, 28116, 28118, 28119, 28120, 28122, 28124, 28126, 28130, 28140, 28150, 28153, 28160, 28171, 28173, 28175, 28192, 28193, 28200, 28202, 28208, 28210, 28220, 28222, 28225, 28226, 28230, 28232, 28234, 28238, 28240, 28250, 28260, 28261, 28262, 28264, 28270, 28272, 28280, 28285, 28286, 28288, 28289, 28290, 28292, 28293, 28294, 28296, 28297, 28298, 28299, 28300, 28302, 28304, 28305, 28306, 28307, 28308, 28309, 28310, 28312, 28313, 28315, 28320, 28322, 28340, 28341, 28344, 28345, 28360, 28406, 28415, 28420, 28436, 28445, 28446, 28456, 28465, 28476, 28485, 28496, 28505, 28525, 28531, 28546, 28555, 28576, 28585, 28606, 28615, 28636, 28645, 28666, 28675, 28705, 28715, 28725, 28730, 28735, 28737, 28740, 28750, 28755, 28760, 28800, 28805, 28810, 28820, 28825, 28899	77.08, 77.28, 77.38, 77.51, 77.52, 77.53, 77.54, 77.56, 77.57, 77.58, 77.59, 77.68, 77.78, 77.88, 77.98, 78.07, 78.08, 78.28, 78.38, 78.48, 78.58, 78.68, 78.78, 78.88, 78.98, 79.27, 79.28, 79.37, 79.38, 79.67, 79.68, 79.87, 79.88, 79.97, 79.98, 80.07, 80.08, 80.17, 80.18, 80.27, 80.28, 80.87, 80.88, 80.97, 80.98, 81.1, 81.11, 81.12, 81.13, 81.14, 81.15, 81.16, 81.17, 81.18, 81.49, 81.56, 81.57, 81.94, 84.11, 84.12, 84.13, 84.14, 84.25, 84.26
Below-the-knee surgery	27600, 27601, 27602, 27635, 27637, 27638, 27640, 27641, 27645, 27646, 27656, 27658, 27659, 27664, 27665, 27687, 27705, 27707, 27709, 27712, 27715, 27720, 27722, 27724, 27725, 27740, 27742, 27745, 27756, 27758, 27759, 27784, 27880, 27881, 27882, 27884, 27886, 27892, 27893, 27894	77.07, 77.27, 77.37, 77.67, 77.77, 77.87, 77.97, 78.27, 78.37, 78.47, 78.57, 78.67, 78.77, 78.87, 78.97, 79.26, 79.36, 79.56, 79.66, 79.96, 84.15, 84.27
Unspecified codes (manually checked)	27607, 27685, 27686, 27692, 27727, 27829, 27832, 27845, 27899	

TABLE E-2 Charlson Comorbidity Index

Score	Condition
1	Myocardial infarct, congestive heart failure, peripheral vascular disease, cerebrovascular disease, dementia, chronic pulmonary disease, connective-tissue disease, ulcer disease, mild liver disease, diabetes
2	Hemiplegia, moderate or severe renal disease, diabetes with end-organ damage, any tumor, leukemia, lymphoma
3	Moderate or severe liver disease
6	Metastatic solid tumor, AIDS

TABLE E-3 ICD-9 Codes for Modified Charlson Comorbidity Index Algorithm

Comorbidity	ICD-9 Code
Congestive heart failure	398.91, 402.01, 402.11, 402.91, 404.01, 404.03, 404.11, 404.13, 404.91, 404.93, 425.4-425.9, 428-428.43
Dementia	290, 290.0, 290.11, 290.12, 290.13, 290.20, 290.21, 290.3, 290.40, 290.41, 290.42, 290.43, 290.8, 290.9, 294.1, 294.11-294.21, 331.2
Chronic pulmonary disease	416.8, 416.9, 490-491.0, 491.2-495.2, 495.4-505, 506.4, 508.1, 508.8
Rheumatologic disease	466.5, 710.0-710.4, 714.0-714.2, 714.8, 725
Mild liver disease*	070.22, 070.23, 070.32, 070.33, 070.44, 070.54, 070.6, 070.9, 570, 570.1, 573.3, 573.4, 573.8, 753.9, V42.7
Diabetes with chronic complications	249.40-249.91, 250.40-250.90
Hemiplegia or paraplegia	342.00-342.92, 344.00-344.5, 344.89-344.9
Renal disease	403.01, 403.11, 403.91, 404.02, 404.03, 404.12, 404.13, 404.92, 404.93, 582-583.7, 585-586, 588.0, V42.0, V45.1, V56-V56.8
Any malignancy, including leukemia and lymphoma†	150.0-159.0, 162-173.59, 173.70-175.9, 180.0-183.9, 185-186.9, 188.0-188.6, 188.8-189.4, 189.9, 191.0-192.3, 192.9-194.4, 200.2-202.38, 202.70-202.81, 203.0-204.22, 204.90-208.22, 208.90-209.36, 209.70, 209.72-209.79, 230.2-230.6, 230.8, 231.2, 231.9, 232.5-232.7, 233.0, 233.1, 233.31, 233.32, 233.4, 233.7, 235.2-235.4, 235.7, 235.8, 236.2, 236.4, 236.5, 236.7-236.91, 237.1-237.4, 237.6, 238.0-238.3, 238.79, 239.0-239.4, 239.6, 239.7, 239.89, 239.9
Moderate or severe liver disease*	456.0-456.2, 572.2-572.8
Metastatic solid tumor†	190.0-190.9, 192.0-196.9, 197.0-198.7, 198.0-198.81, 199.0
AIDS/HIV	042

\*Mild liver disease and moderate or severe liver disease were mutually exclusive. †Any malignancy and metastatic solid tumor were mutually exclusive.

TABLE E-4 Comparison of Baseline Characteristics Between Matched and Unmatched Patients

	Matched* (N = 10,572)	Unmatched* (N = 6,863)	P Value†
Sex			<b>0.109</b>
Male	5,318 (50%)	3,496 (51%)	
Female	5,254 (50%)	3,367 (49%)	
Age			
Mean (interquartile range) (yr)	49 (35-60)	52 (40-65)	<b>&lt;0.001</b>
<40 yr	3,413 (32%)	1,651 (24%)	
40-65 yr	5,383 (51%)	3,476 (51%)	
>65 yr	1,776 (17%)	1,736 (25%)	
BMI‡			
Mean ± stand. dev. (kg/m <sup>2</sup> )	29 ± 7	28 ± 6	<b>&lt;0.001</b>
>30 kg/m <sup>2</sup>	2,412 (38%)	1,367 (32%)	
Race			<b>0.009</b>
White	8,953 (85%)	5,711 (83%)	
Non-white	1,619 (15%)	1,152 (17%)	
Location of surgery			<b>&lt;0.001</b>
Forefoot/midfoot	2,560 (24%)	2,382 (35%)	
Hindfoot/ankle	615 (5.8%)	1,337 (19%)	
Lower leg	2,243 (21%)	2,228 (32%)	
Combination§	5,154 (49%)	916 (13%)	
Smoker/history of smoking	4,228 (40%)	3,217 (47%)	<b>&lt;0.001</b>
Contraception or postmenopausal hormone replacement therapy	671 (6.4%)	495 (7.2%)	<b>0.006</b>
Comorbidities			
Varicose vein	130 (1.2%)	91 (1.3%)	0.579
History of VTE	398 (3.8%)	361 (5.3%)	<b>&lt;0.001</b>
Bleeding disorder	696 (6.6%)	503 (7.3%)	0.057
Hypercoagulability	42 (0.4%)	60 (0.9%)	<b>&lt;0.001</b>
Coagulopathy	120 (1.1%)	83 (1.2%)	0.655
Family history of cardiovascular disease	242 (2.3%)	163 (2.4%)	0.713
Charlson Comorbidity Index >2	1,159 (11%)	942 (14%)	<b>&lt;0.001</b>

\*The values are given as the number of patients with the percentage in parentheses, except where otherwise indicate. †Significant values are in bold. ‡The patients were not actively matched for BMI because of a high rate of missing values (39%).

§Forefoot/midfoot, hindfoot/ankle, and/or lower-leg surgery during a single operation.