

## ACGME Mapping V1.0

The medical education team at Fundamental Surgery carefully design surgical simulations to align as closely as possible with internationally recognised training objectives. During the initial design phase of the development of each of our simulations, the team mapped the current procedural terminology (CPT) milestones of the American Council of Graduate Medical Education (ACGME). The following table lists each of our simulated procedures and the ACGME code to which it can be mapped followed by a list of the specific criteria for each level to which our simulations can provide evidence of appropriate learning opportunities.

✱ Procedure	ACGME CPT Code Mapping	Level 1	Level 2
Total knee arthroplasty (replacement)	27447 TKA Arthroplasty, knee, condyle and plateau; medial AND lateral compartments with or without patella resurfacing (total knee arthroplasty)	<p><i>Medical knowledge</i></p> <ul style="list-style-type: none"> <li>● Correlates anatomic knowledge to imaging findings on basic imaging studies (e.g. plain radiographs)</li> <li>● Demonstrate knowledge of knee anatomy</li> <li>● Understands basic pre-surgical planning and templating</li> <li>● Completes pre-operative planning with basic instrumentation and implants</li> <li>● Understands the importance of post-operative complications that may arise from TKR (e.g. wound healing complications, infection, VTE, instability, neovascularization (NV) injury, stiffness)</li> </ul> <p><i>Patient care</i></p> <ul style="list-style-type: none"> <li>● Completes pre-operative planning with basic instrumentation and implants</li> </ul>	<p><i>Medical knowledge</i></p> <ul style="list-style-type: none"> <li>● Demonstrates knowledge of knee arthritis anatomy, basic surgical approaches</li> <li>● Understands alternative implant choices/biomaterials</li> <li>● Understands the importance of intra-operative decision making that may lead to complications (e.g. patellofemoral complications, tibio-femoral instability, femoral and tibial orientation, soft tissue balancing).</li> </ul> <p><i>Patient care</i></p> <ul style="list-style-type: none"> <li>● Completes pre-operative planning with basic instrumentation and implants</li> <li>● Recognizes intraoperative complications</li> </ul> <p><i>Self-directed learning - practice based learning and development</i></p> <ul style="list-style-type: none"> <li>● Continually evaluates own performance by evaluating feedback and assessment</li> </ul>

Total hip arthroplasty (replacement)	27130 THA arthroplasty, acetabular and proximal prosthetic replacement (total hip arthroplasty), with or without autograft or allograft	<p><i>Medical knowledge</i></p> <ul style="list-style-type: none"> <li>• Correlates anatomic knowledge to imaging findings on basic imaging (plain radiographs)</li> <li>• Demonstrates knowledge of hip anatomy</li> <li>• Understands the importance of post-operative complications that may arise from THR (e.g. VTE, infection, dislocation, NV injury)</li> </ul> <p><i>Patient care</i></p> <ul style="list-style-type: none"> <li>• Completes pre-operative planning with basic instrumentation and implants</li> </ul>	<p><i>Medical knowledge</i></p> <ul style="list-style-type: none"> <li>• Demonstrates knowledge of hip arthritis anatomy and basic surgical approaches</li> <li>• Understands the importance of intra-operative decision making that may lead to complications (e.g. limb length discrepancies, instability, cup orientation, femoral offset)</li> </ul> <p><i>Patient care</i></p> <ul style="list-style-type: none"> <li>• Completes pre-operative templating with basic instrumentation and implants</li> <li>• Recognizes intra-operative complications</li> </ul> <p><i>Self-directed learning - practice-based learning and development</i></p> <ul style="list-style-type: none"> <li>• Continually evaluates own performance by evaluating feedback and assessments</li> </ul>
Spinal pedicle screw	Part of: 22040, 22842, 22843, 22844 (all Posterior Instrumentation CPT codes)	<p><i>[Degenerative lumbar, Degenerative cervical, Traumatic, Deformity] - medical knowledge</i></p> <ul style="list-style-type: none"> <li>• Demonstrates knowledge of basic spinal anatomy</li> </ul>	
			<p><i>Self-directed learning - practice-based learning and development</i></p> <ul style="list-style-type: none"> <li>• Continually evaluates own performance by evaluating feedback and assessments</li> </ul>

**References:**

ACGME (2015) The Adult Reconstructive Surgery Milestone Project  
ACGME (2015) The Spinal Orthopedic Surgery Milestone Project