

Surgical Care — Medical Knowledge				
Level 1	Level 2	Level 3	Level 4	Level 5
<ul style="list-style-type: none"> Understands normal physiology, fluid and electrolyte balance, hemostasis, sepsis, and wound healing Understands the principles of safe surgical performance (e.g., checklist, surgical consent, aseptic technique, patient positioning, skin preparation, draping, use of appropriate instruments, universal precautions) 	<ul style="list-style-type: none"> Understands the effect of age, pregnancy, and obesity on the surgical patient Understands alterations in nutrition, including, obesity and cachexia; understands the indications for enteral and parenteral feeding Understands the effects of alcohol, tobacco, and substance abuse 	<ul style="list-style-type: none"> Understands the effect of comorbidities on the surgical patient (e.g., cardiac, pulmonary, renal, hepatic failure) Understands psychosocial disorders (e.g., depression, body dysmorphic disorder) Understands the effects of chemotherapy, radiation, immunosuppression, and medications, including homeopathic regimens 	<ul style="list-style-type: none"> Understands the management of complex multisystem surgical pathophysiology, including intensive care and organ system support (e.g., dialysis, ventilator use) Understands potential reasons to decline offering surgical services Understands the process of professional and legal discharge of a patient from practice 	<ul style="list-style-type: none"> Systematically reviews outcomes and publishes in peer-reviewed journals
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Surgical Care — Patient Care				
Level 1	Level 2	Level 3	Level 4	Level 5
<ul style="list-style-type: none"> • Performs history and physical examination of the surgical patient and employs algorithms such as advanced trauma life support (ATLS) and advanced cardiac life support (ACLS) • Manages several uncomplicated patients, with assistance • Independently performs basic techniques in the care of the surgical patient, (e.g., nasogastric [NG] tube placement, urethral catheterization, knot tying) • Gathers and categorizes information 	<ul style="list-style-type: none"> • Manages a surgical patient with single system disease with assistance, and deviates from algorithms when indicated • Provides surgical consultations with assistance • Independently performs routine procedures (e.g., incision and drainage, central line placement, chest tube placement, biopsy, wound closures and laceration repair) • Recognizes patterns and establishes major priorities while being able to describe at least one solution 	<ul style="list-style-type: none"> • Manages a surgical patient with multiple system diseases with assistance • Independently manages multiple patients and surgical consultations • Recognizes exceptions and describes three or more solutions 	<ul style="list-style-type: none"> • Independently manages a surgical patient with multiple system diseases; manages a surgical patient with one or more life threatening conditions with consultation • Manages a surgical service • Applies known solutions in novel ways; anticipates and has a plan for potential problems 	<ul style="list-style-type: none"> • Teaches and supervises other learners who manage patients • Develops and employs simulation for teaching and assessment of surgical skills
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