

LSUHSC-Shreveport and LSUHSC-Monroe
 Major Participating Institutions-, Overton Brooks VA Medical Center, Willis Knighton
 Medical Center

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| <ol style="list-style-type: none"> 1) Medical Knowledge 2) Patient care skills 3) Practice-based learning 4) Interpersonal and communication skills 5) Systems-based practice 6) Professionalism |
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RESIDENT LEVELS OF CARE

DEPARTMENT of SURGERY
General Surgery

Resident Level: PGY-1

Clinical Diagnosis and Management	Invasive Operative Management
<p>The resident</p> <ul style="list-style-type: none"> • Is able to perform a comprehensive history and physical exam (1,2,4,6) • Provides adequate pre- and post-operative care with good documentation (1,2,4,6) • Appropriately diagnoses medical and surgical conditions (1) • Provides appropriate care for urgent and emergent medical and surgical conditions (1) • Diagnoses and treats an uncomplicated reducible hernia (1) • Discusses nature of medical condition and prognosis with family (1,2,4,6) • Diagnoses acute abdomen and prepares for the OR (1,2,4,6) 	<p>The resident</p> <ul style="list-style-type: none"> • Understands the function of surgical instruments • Is able to tie knots effectively • Sutures a complex wound • Uses scalpel, forceps, and scissors effectively • Understands the use of electrocautery • Performs bedside procedures (i.e. IV insertion, ABG, NG insertion) <p>The resident performs or assists in performing operative procedures which may include but are not limited to:</p> <ul style="list-style-type: none"> • Chest tube insertion • Venous cutdown • Tracheostomy • Gastrostomy • Jejunostomy • Herniorrhaphy • Appendectomy • Amputation • Diagnostic laparoscopy • Breast biopsy • Lymph node biopsy
<p>* A faculty physician, other than another resident, is present physically during the key portions of the procedure or is immediately available.</p>	

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RESIDENT LEVELS OF CARE

DEPARTMENT of SURGERY
General Surgery

Resident Level: PGY-3

Clinical Diagnosis and Management	Invasive Operative Management
<p>The resident</p> <ul style="list-style-type: none"> • Sees patients in clinic, orders appropriate tests, and makes diagnosis (1,2,4,6) • Is able to independently make decisions concerning pre-and post-op care for complicated patients (1,2,5) • Is able to provide care for critical patients with minimal supervision (1,2,4,6) • Understands the appropriate diagnostic and treatment approaches for inflammatory and malignant disease (1,2,4,5,6) • Understands principles of gastrointestinal anastomosis and fascial closure (1,2) • Understands principles of adequate operative exposure (1,2) • Understands indications and use of drains (1,2) • Is able to discuss prognosis and treatment of cancer with a patient/family (1,2,4,6) 	<p>The resident</p> <ul style="list-style-type: none"> • Is generally facile with laparoscopic instruments • Inserts and monitors critical monitoring lines (i.e., PA Cath, Arterial Line) • performs or assists in performing operative procedures which may include but are not limited to: <ul style="list-style-type: none"> ❖ The stomach ❖ Colon and small bowel ❖ Laparoscopic and open cholecystectomy ❖ Splenectomy and splenorrhaphy ❖ Thyroid and parathyroid glands and vascular access
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RESIDENT LEVELS OF CARE
DEPARTMENT of SURGERY
General Surgery
Resident Level: PGY-4, 5

Clinical Diagnosis and Management	Invasive Operative Management
<p>The resident</p> <ul style="list-style-type: none"> • Is able to completely coordinate the care of the patient in the outpatient setting (1,2,4,6) • Is able to direct the care of multiple pre- and post-operative patients (1,2,4,6) • Understands and is able to apply the principles of surgical critical care (1,2,4,6) • Understands all operative approaches to a surgical or vascular problem and is able to choose the most appropriate (1,2,4,6) • Understands principles of stapling devices (1,3,5) • Understands principles of gastrointestinal and/or vascular anastomosis (1,2) • Administratively manages the service, providing an educational environment for residents and students, and is prepared to make decisions about patients with complex surgical problems or complications (1,2,3,4,5,6) • Is able to interact appropriately with multiple consultants, ED physicians and nursing staff (1,2,3,4,5,6) • Is able to discuss complex surgical problems and prognosis with patients and family (1,2,3,4,5,6) 	<p>The resident</p> <ul style="list-style-type: none"> • Is generally facile with laparoscopic approaches for advanced laparoscopic procedures • Understands and manages intraoperative emergencies (i.e., bleeding, enterotomy) • Is able to direct the operative team effectively and to use assistants well • Is able to perform more complicated operations including but not limited to procedures on <ul style="list-style-type: none"> ❖ Adrenal gland ❖ Complex hepatobiliary reconstructions ❖ Pancreaticoduodenectomy ❖ Pancreatic procedures ❖ Re-operations for surgical complications
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RESIDENT LEVELS OF CARE

DEPARTMENT of SURGERY Surgery/Burn Surgery

Resident Level: PGY 2

Clinical Diagnosis and Management	Invasive Operative Management
<p>The resident</p> <ul style="list-style-type: none"> • Provides burn patient evaluation and monitoring (1) • Implements fluid resuscitation protocols for children & adults (1,2,) • Selects and applies appropriate dressings and antibacterials (1,2,3,5) • Manages systemic effects of the burn wound in critically injured surgical patient considering sepsis, gastrointestinal, immunologic problems, and cardio-respiratory effects (1,2,3,5) • Manages treatment of inhalation injury, including flexible laryngotracheoscopy, and ventilator management (1,2) • Manages wound therapy, including Eschar formation and slough, re-epithelization, tangential and fascial excision, debridement of deep tissues, and skin graft harvest and application (1,2) • Evaluates electrical burns, including entrance and exit wound, cardiac, vascular, neurologic, ophthalmologic effects, deep tissue destruction (1,2) • Institutes treatment of chemical burns, including identification of types and sources, management by dilution or neutralization, treatment of systemic effects of local chemicals (1,2) • Manages Eschar contracture and 	<p>The resident</p> <ul style="list-style-type: none"> • Performs tangential exclusions of burn wounds • Performs fascial excision of burn wounds • Harvests split thickness skin grafts • Applies split thickness skin grafts to wounds • Harvests full thickness skin grafts • Applies full thickness skin grafts to wounds • Releases burn contractures • Places K-wire pins through fingers and toes • Excises burn scars and closes wounds with local flaps • Places arterial lines • Places triple lumen central venous pressure lines • Places Swan Ganz catheters • Performs tracheostomy • Places percutaneous endoscopic gastrostomy tubes

<p>edema control through techniques of escharotomy and techniques of fasciotomy (1,2)</p> <ul style="list-style-type: none">• Manages treatment of burned child, including initial therapy, systemic support, and special care needs with input from pediatric intensive care team (1,2,4,6)• Directs clinical management and supervision of burn team (1,2,4,6)	
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**RESIDENT LEVELS OF CARE
DEPARTMENT of SURGERY**

Critical Care

Resident Level: PGY 1

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Clinical Diagnosis and Management	Invasive Operative Management
<p>The resident has close contact with surgical diseases in the ICU, and through contact with faculty on call, will</p> <ul style="list-style-type: none"> • Utilize ventilators to optimize pulmonary function (1,2) • Interpret data from clinical sources and hemodynamic monitors and utilize the appropriate fluid management, inotrope and pressors to optimize hemodynamic status(1,2) • Diagnose and manage fluid and electrolyte abnormalities, including renal impairment (1,2) • Understand the clinical and hemodynamic symptoms of sepsis and interpret the results of bacterial and fungal culture and determine appropriate antibiotic usage (1,2) • Interpret results of nutritional analysis to formulate appropriate strategies for nutritional repletion (1,2) • Understand principles of intensive neuromonitoring and manage states of decreased level of consciousness and increased intracranial pressure (1,2) • Understand blood component therapy (1,2) • Understand and treat hypothermia (1,2) • Understand usage of paralytic, sedatives and analgesics in an ICU setting (1,2) • Determine relationship between treatment of surgical disease through operation intervention and impact of this on organ physiology (1,2) 	<p>The resident becomes facile in the insertions of</p> <ul style="list-style-type: none"> • Central venous catheters • Pulmonary artery catheters • Arterial lines • Intubation • Percutaneous tracheostomy • Percutaneous endoscopic gastrostomy
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RESIDENT LEVELS OF CARE

DEPARTMENT of SURGERY
Cardiothoracic Surgery
 Resident Level: PGY 2

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Clinical Diagnosis and Management	Invasive Operative Management
<p>The resident is</p> <ul style="list-style-type: none"> • Able to perform a comprehensive history and physical exam, assessment and develop a basic plan (1,2,4,6) • Able to provide post-operative care for cardiothoracic surgery patients on the ward (1,2,4,6) • Understands commonly done studies for the evaluation of cardiothoracic diseases, i.e. pulmonary function studies, CT scan, bronchoscopy, EKG, stress testing, radio nuclear scans, cardiac catheters (1,2,3,4,5) • Demonstrates basic understanding of positioning and draping for common cardiothoracic procedures (1,2) 	<p>The resident</p> <ul style="list-style-type: none"> • Demonstrates basic understanding and draping for common cardiac procedures • Performs thoracostomy tube placement under supervision • Performs central line placement under supervision • Is able to close skin, subcutaneous and muscular layers of cardiothoracic wounds effectively • Serves as first assistant on cardiac surgical procedures
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RESIDENT LEVELS OF CARE

DEPARTMENT of SURGERY

Surgical Oncology

Resident Level: PGY 1

Clinical Diagnosis and Management	Invasive Operative Management
<p>The resident</p> <ul style="list-style-type: none"> • Is able to perform a comprehensive history and physical exam (1,2,4,6) • Provides adequate pre- and post-operative care with good documentation (1,2,4,6) • Appropriately diagnoses medical and surgical conditions (1,2,4,6) • Provides appropriate care for urgent and emergent medical and surgical conditions (1,2,4,6) • Is familiar with radiographic modalities employed for diagnosis and staging of malignancies (1,2) • Appreciates utility and importance of histopathologic consultation in the management of cancer patients (1,2,3,4,5,6) • Understands importance of social and other support services, such as home health and hospice facilities (1,2,3,4,5,6) • Is responsible for care of in-house patients with malignancies (1,2,3,4,5,6) • Has ability to perform head and neck exam (1,2) • Is able to discuss nature of medical condition and prognosis with family (1,2,4,6) 	<p>The resident performs common diagnostic biopsy procedures such as</p> <ul style="list-style-type: none"> • Fine-needle aspiration • Tru-Cut needle biopsy • Excisional biopsies of smaller tumors, e.g. melanoma, breast lesions and peripheral lymph nodes • Placement of permanent access lines for chemotherapy • Endoscopy for head and neck cancer
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RESIDENT LEVELS OF CARE

DEPARTMENT of SURGERY

Surgical Oncology
 Resident Level: PGY 2

Clinical Diagnosis and Management	Invasive Operative Management
<p>The resident</p> <ul style="list-style-type: none"> • Is able to see patients in clinic, order appropriate tests, and make diagnosis (1,2,4,6) • Is able to independently make decisions concerning pre- and post-op care for complicated patients (1,2,4,6) • Is able to provide critical care with minimal supervision (1,2,4,6) • Understands appropriate diagnostic and treatment approaches for inflammatory and malignant disease (1,2) • Is familiar with clinical, endoscopic and radiological imaging of patients with gastrointestinal malignancies (1,2) • Is able to evaluate patients with complex malignancies (1,2) 	<p>The resident</p> <ul style="list-style-type: none"> • Participates in common gastrointestinal operations as well as bowel resections, breast malignancies, melanomas and sarcomas procedures • Performs excisional biopsies of smaller tumors, e.g. melanoma, breast lesions, and peripheral lymph nodes • Performs placement of permanent IV accesses.

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RESIDENT LEVELS OF CARE

DEPARTMENT of SURGERY

Surgical Oncology

Resident Level: PGY 3, 4

Clinical Diagnosis and Management	Invasive Operative Management
<p>The resident</p> <ul style="list-style-type: none"> Is able to completely coordinate the care of the patient in the outpatient setting including diagnosis and determination of appropriate treatment (1,2,4,6) Is able to direct the care of multiple pre- and post-operative patients (1,2,4,6) Understands and is able to apply principles of surgical critical care (1,2,4,6) Understands all operative approaches to a problem and is able to choose the most appropriate (1,2,4,6) Has detailed knowledge of the continuum of care for the cancer patient during its various phases: latency, staging, treatment and follow-up (1,2,4,6) Evaluates a complex cancer and prepares for operative resection (1,2) Discusses complex surgical problems and prognosis with patient and family (1,2,4,6) Interacts well with multiple specialists and nursing staff (1,2,4,6) 	<p>The resident performs</p> <ul style="list-style-type: none"> Breast resection and reconstruction A variety of operations for carcinomas of the gastrointestinal tract Melanoma and sarcoma, including those afflicting the extremities Liver, esophageal and pancreatic malignancies Diagnostic operative procedures Parotidectomy Radical neck and jaw resection Laryngectomy Pharyngectomy Reconstructive procedures including myocutaneous auxiliary, local flap, and maxillectomy
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RESIDENT LEVELS OF CARE

DEPARTMENT of SURGERY

Trauma Surgery

Resident Level: PGY 1, 2

Clinical Diagnosis and Management	Invasive Operative Management
<p>The resident</p> <ul style="list-style-type: none"> • Is able to perform a comprehensive history and physical exam (1,2,4,6) • Appropriately diagnoses and treats emergent medical and surgical conditions (1,2) • Participates in evaluation and treatment of less complicated pre- and post-operative problems found in trauma patients (1,2,4) • Participates in all trauma resuscitations and is given graded responsibilities to help improve skills needed for early resuscitation (1,2,3,4,5,6) • Understands priorities in trauma resuscitation and management as outlined in ATLS manual (1,5) 	<p>With attending supervision, the resident performs operative procedures which may include</p> <ul style="list-style-type: none"> • Needle decompression • Chest tube insertion • DPL • Peripheral and central intravenous access • Venous cutdown • Foley catheter and nasogastric tube placement • Arterial blood gas sticks • Arterial lines • Tracheostomy • Gastrostomy • Suture of lacerations • Removal of foreign bodies

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RESIDENT LEVELS OF CARE

DEPARTMENT of SURGERY

Trauma Surgery

Resident Level: PGY 4

Clinical Diagnosis and Management	Invasive Operative Management
<p>The resident</p> <ul style="list-style-type: none"> • Is able to completely coordinate the care of patient in outpatient setting (1,2,3,4,5,6) • Is able to direct care of multiple patients in the hospital (2,4) • Understands and is able to apply the principles of surgical critical care and direct a surgical critical care team (4,6) • Understands all approaches to a trauma problem and is able to choose the most appropriate (1) • Provides appropriate guidance and education to lower level residents and students (1,4) • Has a complete understanding of and ability to teach all techniques and operative skills to lower level residents and students (1,2,3,4,5,6) 	<p>The resident</p> <ul style="list-style-type: none"> • With attending supervision, performs complicated operations for life threatening traumatic injuries • Understands and is able to perform critical maneuvers in trauma surgery including <ul style="list-style-type: none"> ❖ Resuscitative thoracotomy ❖ Exposure techniques for abdominal viscera ❖ Damage control laparotomy ❖ Principles of bowel anastomosis ❖ Surgical therapy for injuries to liver, spleen, pancreas and abdominal vasculature

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RESIDENT LEVELS OF CARE

DEPARTMENT of SURGERY

Pediatric Surgery

Resident Level: PGY 1

Clinical Diagnosis and Management	Invasive Operative Management
<p>The resident</p> <ul style="list-style-type: none"> • Understands and becomes proficient in the pre- and post-operative management of the surgically ill infant and child (1,2,4) • Works with neonatal and pediatric intensivists in the special care units and outpatient setting caring for less severely ill pediatric patient (4,6) 	<p>The resident, with attending supervision, performs procedures including</p> <ul style="list-style-type: none"> ❖ Line placements ❖ Herniorrhaphies ❖ Appendectomies ❖ Pyloromyotomies <p>on infants, children and adolescents</p> <p>The resident assists in more complex procedures on these patients as well as in operations of neonates</p> <p>The resident is introduced to principles of advanced laparoscopic surgery</p>
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RESIDENT LEVELS OF CARE

DEPARTMENT of SURGERY

Pediatric Surgery

Resident Level: PGY 4

Clinical Diagnosis and Management	Invasive Operative Management
<p>The resident</p> <ul style="list-style-type: none"> • Is able to effectively plan the diagnostic and therapeutic management of children with severe surgical illness (1,6) • Is able to assume management of inpatient pediatric surgical service (1,2) • Is able to direct the activities of and participate in teaching of lower level residents and students (1,4) 	<p>The resident</p> <ul style="list-style-type: none"> • Becomes proficient in all pediatric surgical procedures commonly part of general surgical practice • Performs more complex pediatric surgical procedures such as bowel resections • Becomes proficient in advanced laparoscopic procedures

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RESIDENT LEVELS OF CARE

DEPARTMENT of SURGERY

Vascular Surgery

Resident Level: PGY 1

Clinical Diagnosis and Management	Invasive Operative Management
<p>The resident</p> <ul style="list-style-type: none"> • Understands the diagnostic criteria and patho-physiologies differentiating acute and chronic arterial and venous vascular disease (1,2) • Is able to evaluate and institute therapy of patients with common vascular problems (1,2) • Is able to perform ankle/brachial index in vascular non-invasive lab (1,2) • Is familiar with non-invasive testing of vascular patients (1,2,5) 	<p>The resident</p> <ul style="list-style-type: none"> • Performs minor and major amputations and insertion of central venous lines • Develops proficiency in closure of surgical incisions

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RESIDENT LEVELS OF CARE

DEPARTMENT of SURGERY

Vascular Surgery

Resident Level: PGY 4, 5

Clinical Diagnosis and Management	Invasive Operative Management
<p>The resident</p> <ul style="list-style-type: none"> • Demonstrates the ability to interpret vascular diagnostic procedures and to provide vascular consultations (1,4) • Demonstrates expertise in consultation for appropriate management of common vascular disorders (2,4) • Integrates pre-operative evaluation, operative and non-operation treatment and post-operative management and follow-up of patients with vascular disease (1,2) 	<p>The resident</p> <ul style="list-style-type: none"> • Obtains further experience with amputations and obtaining vascular access • Gains expertise in repair and/or reconstruction of major vessels and uncomplicated arterial repair or anastomosis • Acquires experience in transfemoral lumbar and femoral arteriography using Seldinger technique • Acquires experience in major arterial reconstructive surgery including carotid artery surgery, AAA repair, infra-inguinal bypasses and uncomplicated visceral arterial bypasses

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RESIDENT LEVELS OF CARE

DEPARTMENT of SURGERY

Willis Knighton Transplant/Critical Care

Resident Level: PGY 1, 2

Clinical Diagnosis and Management	Invasive Operative Management
<p>The resident</p> <ul style="list-style-type: none"> • Is thoroughly familiar with and competent in the management of the following in transplant patient <ul style="list-style-type: none"> ❖ Hyperkalemia ❖ Fluid balance ❖ Diabetes ❖ Fever of unknown origin ❖ Hypertension ❖ Sepsis ❖ Wound infection ❖ Malnutrition (1) • Learns manifestations of rejection of renal, hepatic, and pancreas transplant (1,2) • Understands principles of vascular and gastrointestinal anastomosis (1,2) • Becomes thoroughly familiar with anatomy of retro-peritoneal iliac arterial/venous area (1,2) • Becomes familiar with anatomy of liver transplantation (1,2) • Understands roles of <ul style="list-style-type: none"> ❖ Renal nuclear scans ❖ Ultrasonography ❖ Arteriography ❖ Biopsy In diagnosis of kidney graft dysfunction (1,2) 	<p>The resident</p> <ul style="list-style-type: none"> • Generally facile with instruments, ties knots in difficult access areas • Understands and manages intraoperative emergencies (ie., bleeding, enterotomy) • Able to provide exposure in difficult areas • Understands techniques of dissection; finds tissue planes; appropriately handles delicate tissues

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RESIDENT LEVELS OF CARE

DEPARTMENT of SURGERY

Willis Knighton Transplant/Critical Care

Resident Level: PGY 3

Clinical Diagnosis and Management	Invasive Operative Management
<p>The resident</p> <ul style="list-style-type: none"> • Is able to completely coordinate care of transplant patient in the trauma setting (1,2,4,6) • Is able to direct the care of multiple pre- and post-operative patients (1,2,4) • Understands and is able to apply principles of surgical critical care and direct surgical critical care team (1,2,4) • Understands all operative approaches for transplantation and variceal disease and is able to choose the most appropriate (1,2,3,5) • Manages immunosuppression after a renal transplant (1) • Manages delayed complications from a transplant (1) • Interacts appropriately with multiple consultants and nursing staff (1,4,6) • Is able to discuss complex surgical problems and prognosis with patient and family (1,2,4,6) 	<p>The resident</p> <ul style="list-style-type: none"> • Performs uncomplicated donor harvest of kidney • With faculty physician supervision, performs kidney, liver and pancreas transplants

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