

Howard University Hospital General Surgery Residency 2022 – 2023 Simulation and Skills Curriculum

Intern Skills (Intern Boot Camp):

1. Asepsis: scrubbing, skin prep and draping
2. Instrument Identification
3. Knot tying, suturing, wound closure, skin biopsy
4. Foley placement, Nasogastric tube placement
5. Airway: bag mask Ventilation, Orotracheal Intubation, Surgical Airway
6. Venipuncture, peripheral IV, arterial stick

Junior Resident Skills (PGY 1 /2):

1. Team Training: Communications: Sign-out & Transition of Care
2. Clinical OSCE: Giving Bad News, Obtaining Informed Consent
3. Clinical OSCE: PACTS
4. Skills OSCE: Suturing & Knot tying, Peripheral IV line placement, Central Line Placement, Intubation
5. Ultrasound guided central line placement
6. Arterial puncture & arterial line placement
7. Basic Laparoscopic and Endoscopic Skills: FLS/FES
8. Laparotomy: opening and closing
9. Chest tube placement and needle decompression
10. Introduction to Upper Endoscopy Skills
11. Introduction to Lower Endoscopy Skills
12. Vascular Anastomosis
13. Gastrointestinal Anastomosis
14. Use of ultrasound
15. Percutaneous Tracheostomy and Nasal Packing
16. Plastics: Dog ear, skin flaps

Senior Resident Skills (PGY 3 - 5)

1. Advanced Laparoscopic and Endoscopic Skills: FLS/FES
2. Vascular Anastomosis
3. Gastrointestinal Anastomosis
4. Team Training: Trauma / Critical Care
5. Skills OSCE: Vascular anastomosis & GI anastomosis
6. Animate Lab Skills: Laparoscopic Splenectomy; Laparoscopic Bowel Resection & Anastomosis; Laparoscopic Gastrectomy * Off site

All Residents (PGY 1 – 5):

1. Robot Skills Curriculum, In-service Robot training and Robot Simulation Modules

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Module Didactics and Instructions for Resident and Faculty prep can be found in the **ACS/APDS Surgery Resident Skills Curriculum:**

<https://learning.facs.org/content/acsapds-surgery-resident-skills-curriculum-phase-1#group-tabs-node-course-default1>

(Must register for membership of American College of Surgeons, access to curriculum is included)

ACS/APDS Surgery Resident Skills Curriculum Phase 1: Core Skills

- Module 1: Asepsis and Instrument Identification
- Module 2: Knot Tying
- Module 3: Suturing
- Module 4: Wound Closure and Skin Flaps
- Module 5: Skin Grafts
- Module 6: Urethral Catheterization
- Module 7: Airway Management
- Module 8: Chest Tube Insertion
- Module 9: Central Line Insertion
- Module 10: Surgical Biopsy
- Module 11: Laparotomy Opening and Closure
- Module 12: Basic Laparoscopy Skills
- Module 13: Advanced Laparoscopy Skills
- Module 14: Hand-Sewn Bowel Anastomosis
- Module 15: Stapled Bowel Anastomosis
- Module 16: Arterial Anastomosis

Howard University Hospital General Surgery Residency
2022 PGY I Surgery Essentials Skills Course (SESC) Boot Camp

Medical Director Simulation Center: Debra H. Ford M.D., FACS, FASCRS

Program Director: Daniel Tran, M.D., FACS

Assistant Program Director: Lori Wilson, M.D., FACS

Surgical Simulation Education Program Director: Christine Nembhard, M.D.

Date	Time	Location	Skill	Faculty/Instructor
Tuesday June 28, 2022	11:00 am – 12:00 pm	Operating Room	Scrub Class	Michelle Dempsey- Evans
	12:00 pm – 1:00 pm	Lunch		
	1:00 pm – 1:30 pm	Simulation Center	Identify & name surgical instruments	Ford
	1:30 pm – 3:30 pm	Simulation Center	Knot tying, Suturing, skin biopsy	Nembhard / Wilson
	3:30pm - 3:50 pm	Simulation Center	Foley catheterization didactic	Tonkin
	4:00 pm – 4:30 pm	Simulation Center	Foley placement (Group A) NG tube placement (Group B)	Tonkin
	4:30 pm – 5:00 pm	Simulation Center	Foley placement (Group B) NG tube placement (Group A)	Tonkin
Friday July 8, 2022	7:30 am – 8:30 am	Simulation Center	Airway: bag/mask ventilation, orotracheal intubation, surgical airway	Kalejaiye
	8:30 am – 9:30 am	Simulation Center	Venipuncture & Peripheral IV, Arterial stick	Rose

All PGY I residents will be unavailable during the above times to complete the essential skills boot camp

Group A:

- **Lerone Ainsworth** (Gen Surg)
- **Anna Lin** (Gen Surg)
- **Reinaldo Hernandez Soto** (Gen Surg)
- **Alaa Mansour** (Gen Surg)
- **Nnaemeka Okorie** (Ortho)
- **Abioye Oshodi** (Ortho)
- **Marcus Allen Crayton** (OMFS)

Group B:

- **Lawrence Prince-Wright** (Gen Surg)
- **Miriannie Rivera-Valerio** (Gen Surg)
- **Siobhan Nnorom** (Gen Surg)
- **Brian Aristega Almeida** (Ortho)
- **Miranda Barnes** (Ortho)
- **Ayodeji Joseph Awopegba** (OMFS)
- **Siri Sarva** (OMFS)

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Date	PGY Level	Time	Skills	Faculty/Instructor
7/8/22	PGY 1	7:30 am – 9:30 am	Intern Boot Camp Part 2: Airway / Venipuncture / Arterial stick	Kalejaiye / Rose
7/15/22	PGY 1-2	9 am – 11 am	Team Training: Communications Sign-out & Transition of Care Location: TBD	Wilson / Nembhard
7/22/22	PGY 3-5	9 am – 11 am	Advanced Laparoscopic / Endoscopic Skills: FLS/FES	Tran / Nembhard
7/29/22	All PGYs	OR room 10 9 am – 11 am	Robot Modules and Expectations Robot In Service	Tran / Nembhard / DaVinci Rep
8/5/22	PGY 1-2	9 am – 11 am	Ultrasound guided central line placement/ Arterial line placement	Rose / Hughes
8/12/22	PGY 1-2	9 am – 11 am	Chest tube placement & needle decompression	Williams/Siram/Smalls
8/19/22	PGY 3-5	9 am – 11 am	Advanced Laparoscopic Skills: FLS/FES/FRS skills/suturing	Tran / Nembhard
8/26/22	PGY 1	9 am – 11 am	Clinical OSCE: <i>Giving Bad News & Obtaining Informed Consent:</i> Communication Skills with Standardized patients Location: Clinical Skills Center, 2nd floor Mudd Building, HUCM	Wilson/Owens Faculty/Chiefs
9/2/22	PGY 1	9 am – 11 am	Skills OSCE: Suturing & Knot tying, Peripheral IV line placement, Central Line Placement, Intubation	Wilson / Nembhard / Residents

9/9/22	PGY 1-2	9 am – 11 am	Basic Laparoscopic Skills: FLS	Tran / Nembhard
9/16/22	PGY 3-4	9 am – 11 am	Gastrointestinal Anastomosis: Stapled & Hand-sewn	Wilson/ Nembhard
Date	PGY Level	Time	Skills	Faculty/Instructor
9/23/22	PGY I	9 am – 11 am	Clinical OSCE: PACTS Location: Clinical Skills Center, 2nd floor Mudd Building, HUCM	Wilson/Owens Faculty/Chiefs
9/30/22 Radiology	PGY 1-2	9 am – 11 am	Ultrasound techniques	Davis / Radiology faculty
10/7/22	PGY 3-4	9 am – 11 am	Vascular Anastomosis	Wilson / Nembhard
10/14/22	PGY 1-2	9 am – 11 am	Laparotomy: Opening & Closing	Williams/Siram/Smalls/ Chiefs
10/21/22	PGY 3-4	9 am – 11 am	Skills OSCE: Gastrointestinal and Vascular Anastomosis	Nembhard/Wilson/Tran / Rose/Hughes
11/18/22	PGY 1-2	9 am – 11 am	Introduction to Upper Endoscopy: Equipment/Scope Manipulation	Tran
12/2/22	PGY 3-5	9 am – 11 am	Advanced Laparoscopic and Endoscopic Skills: FLS/FES	Tran / Nembhard
12/9/22	PGY 1-2	9 am – 11 am	Percutaneous Tracheostomy/ Nasal Packing for Bleeding	Kalejaiye
1/6/23	PGY 3-5	9 am – 11 am	Team Training Scenario: Trauma / Critical Care	Williams / Siram
1/13/23	PGY 1-2	9 am – 11 am	Introduction to Lower Endoscopy: Equipment/Scope Manipulation	Nembhard
1/20/23	PGY 3-5	9 am – 11 am	Advanced Laparoscopic and Endoscopic Skills: FLS/FES	Tran / Nembhard
2/10/23	PGY 1-2	9 am – 11 am	Basic Laparoscopic Skills	Tran / Nembhard

2/17/23	PGY 3-5	9 am – 11 am	Advanced Laparoscopic and Endoscopic Skills: FLS/FES	Tran / Nembhard
3/10/23	All PGYs	9 am – 11 am	Robot In-Service	DaVinci Rep
? 3/17/23	PGY 3-5	9 am – 11 am	Advanced Laparoscopic and Endoscopic Skills: FLS/FES	Tran / Nembhard
Date	PGY Level	Time	Skills	Faculty/Instructor
? 4/14/23	PGY 3-5	9am – 11am	Hemostatic Agents, Staplers, Energy Devices (Laparoscopic)	Ethicon Rep / Tran / Nembhard
5/5/23	PGY 2-4	9am – 11am	Advanced Laparoscopic and Endoscopic Skills: FLS/FES	Tran / Nembhard
5/12/23	PGY 1-2	9 am – 11 am	Gastrointestinal anastomosis	Wilson/Nembhard
5/19/23	PGY 1-2	9 am – 11 am	Plastics: Dog ear, local flaps	Paul / Bolden
6/2/23	PGY 3-5	9 am – 11 am	Advanced Laparoscopic and Endoscopic Skills: FLS/FES	Tran / Nembhard
6/9/23	PGY 1-2	9 am – 11 am	Vascular Anastomosis	Rose / Hughes
6/16/23	PGY 2-4	9 am – 11 am	Advanced Laparoscopic and Endoscopic Skills: FLS/FES	Tran / Nembhard
TBA <i>Porcine Animate Lab</i>	PGY 3-5	8:30am – 2:00 pm	On hold x 2 years: COVID Ethicon: Advanced Laparoscopic Procedures: Laparoscopic Splenectomy, Laparoscopic Bowel Resection & Anastomosis, Laparoscopic Gastrectomy Location: George Washington University Medical School Animate Lab	Tran / Nembhard
TBA	PGY I	TBA	PGY I Surgery Essential Skills Course (SESC) Boot Camp	Faculty

Independent practice on FLS/FES trainers is available in the Simulation Center is open (8 am – 5 pm). This must be arranged with the Sim Center in advance, call 202-806-3800.