Immersion Phase Class of 2024 **Planning Your Phase:** Registration Fair and Elective Counseling



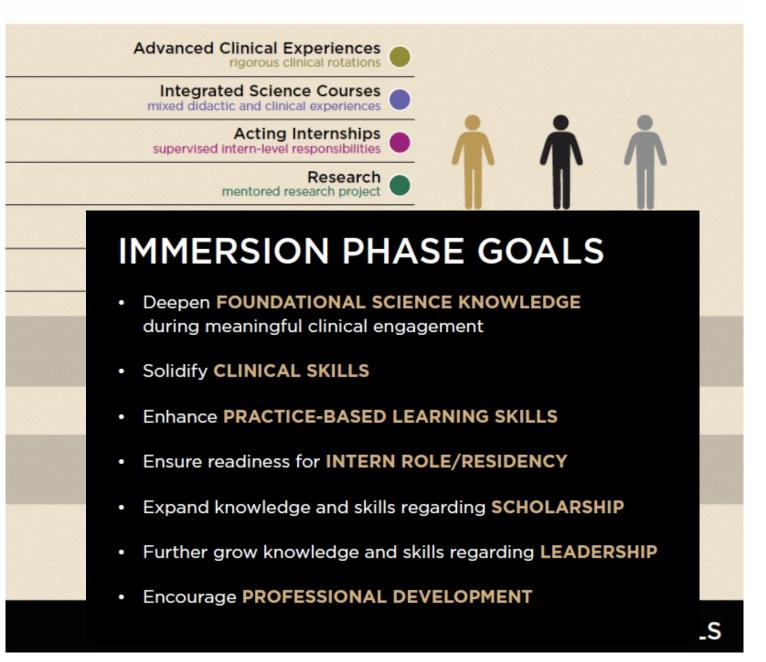
What we'll cover tonight:

- Video with Dean Fleming (watch this!)
- Immersion Phase requirement reminders
- Student representative tips on Immersion Phase planning
- Integrated Science Course (ISC) introductions
- Meet with subspecialty advisors (30 min: via Zoom)



Curriculum 2.0: Immersion Phase

A highly individualized post-clerkship phase that uses clinical context to build upon prior learning



C 2.0 Immersion Phase (IP) Requirements (traditional path)

Minimum C2.0 Requirements (in Months)							
	4	Integrated Science Courses (ISCs)					
On-Campus	1	Acting Internship (AI)					
	4	Advanced Clinical Electives (ACEs)					
On-Campus or Away	3	Research Immersion					
(away with approval)	3	Competency and Interest-Driven Rotations* (can be ISCs, ACEs, AIs or Electives)					
15 required months		Must include: 1 Primary Care course (either ACE or ISC) 1 Acute Care course (EM or ICU-based course)					
4+2+1 (7 total)		Flex months (4 + 2 month for Step 1 + 1 month for interviews)					

Students can register for up to 19 months *At least one must be clinical rotation.

C2.0 Longitudinal Requirements Summary

Longitudinal Course Requirements								
	of Health Care —10 units	Learning Communities— 8 units	Research-3 months					
5 self-enrolled, taken with a primary course	5 units completed during week-long FHD Immersions	All self-enrolled, taken with a primary course	PLAN Required	3-6 block Research Immersion				

Students must be present for face-to-face sessions:

- FHD has one or two on Tuesdays from 1-5p
- LC has one on a Monday from 1-3p or 3-5p

Immersion Weeks are mandatory. Do not submit abstracts to meetings during these weeks:

- Aug. 22-25, 2022 (Immersion Orientation and FHD AC1 and PHP)
- Feb. 27-March 3, 2023 (EPA week)
- May 1-5, 2023 (FHD AC2 and IPE1)
- TBD between February and March 2024

Resources

- Class of 2024
 - <u>https://medschool.vanderbilt.edu/md-gateway/grad-</u> requirements/
- MD/PhD C2.0
 - <u>https://medschool.vanderbilt.edu/md-gateway/mstp-c20-</u> requirements/
- MIDP
 - <u>https://medschool.vanderbilt.edu/md-gateway/midp-requirements/</u>
- Dual Degree
 - <u>https://medschool.vanderbilt.edu/md-gateway/dual-degree-requirements/</u>



Approach to IP Planning

- Ideally, plan for 3 ISCs in Year 3 with a minimum of 2
 - Please do not enroll for more than 3 during initial registration
- Acting Internships (AI) will be taken between March of Y3 and September of Y4 by most students
 - Students will work with IP team to register
 - In approx. November, we will send out a separate survey for AI preferences
- QI must be completed by November of Y4
- RI must be completed by March of Y4

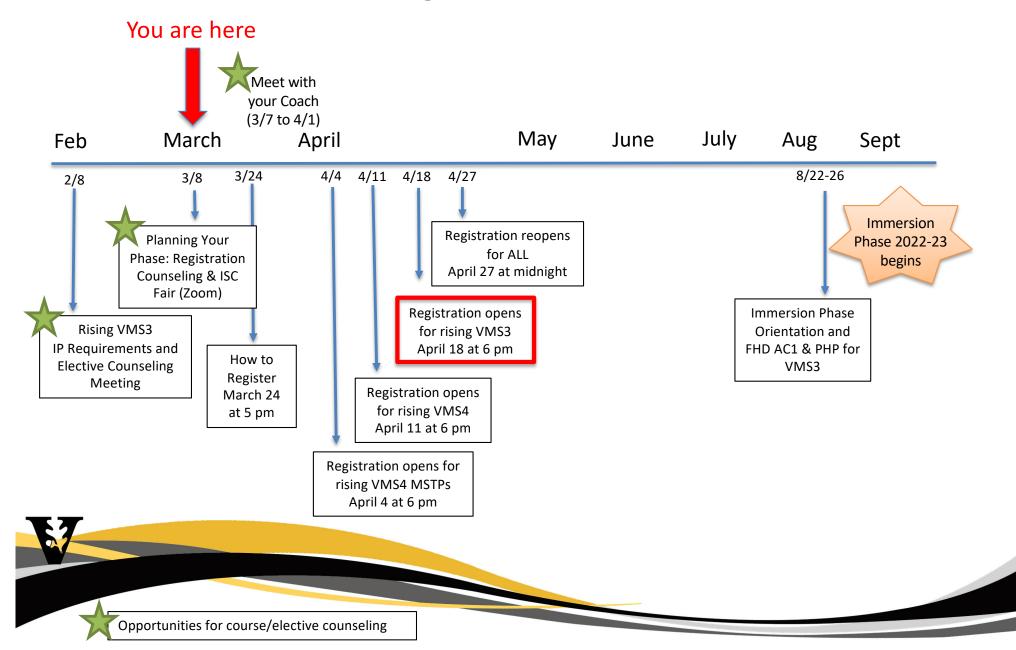


Approach to IP Planning

- Have several schedules planned and recognize that you will make many changes to your schedule
 - Make sure to register through June 2023
 - Leave spots for Research Immersion (you register after PLAN)
- Be mindful of your peers as you plan
- Discuss your IP Plan with your advisors, mentors, coach:
 - Plan ahead for the full 2 years
 - Year 3 should be approached as exploratory and to attain required competencies
 - Balance general medical education vs specialization



VMS2 Registration Timeline



Certificate Programs

The School of Medicine offers graduate certificate programs to its students who wish to gain focused expertise in a specific area.

- Each program has its own admission and completion requirements.
- Students **must submit an "Intent to Enroll" form** to document their intention to pursue a certificate, as well as other documentation as needed.
- Permission of the degree program director and the certificate program director are required to pursue a certificate.



Certificate Programs

- Biomedical Ethics
- Global Health
- Health Equity
- Lesbian, Gay, Bisexual, and Transgender (LGBT) Health
- Neurodevelopmental Disabilities



Careers in Medicine

https://medschool.vanderbilt.edu/md-gateway/pathway-to-match/

Your guide to succeeding in the residency application process with info such as Calendar to Match Checklist for Match **Fourth-Year Scheduling Away Rotations Faculty Advisor Lists** Writing Your Curriculum Vitae Workshops **Application Process** Letters of Recommendation



Leland Dunwoodie

Integrated Science Course Presentations

(please hold all questions until the end)



Cardiovascular Disease

David Meoli, MD, PhD and Lisa Mendes, MD

Science: Lecture, Anatomy Lab, CELA (code and echo simulators), ECG workshops, CBL

- CV gross anatomy and imaging
- Cardio-oncology
- CV hemodynamics
- Acute and chronic CHF treatment
- Vascular emergencies
- Pharmacology of CV drugs

- Echo: U/S physics •
- Vascular biology of stress testing •
- **ECG** interpretation
- Pulmonary vascular disease •
- Coronary/valvular surgery ullet
- Mental health and CV disease ullet

Clinical Settings: Three one-week experiences •

CT Surgery

- Card Anesthesia
- Vascular Surgery HF/transplant

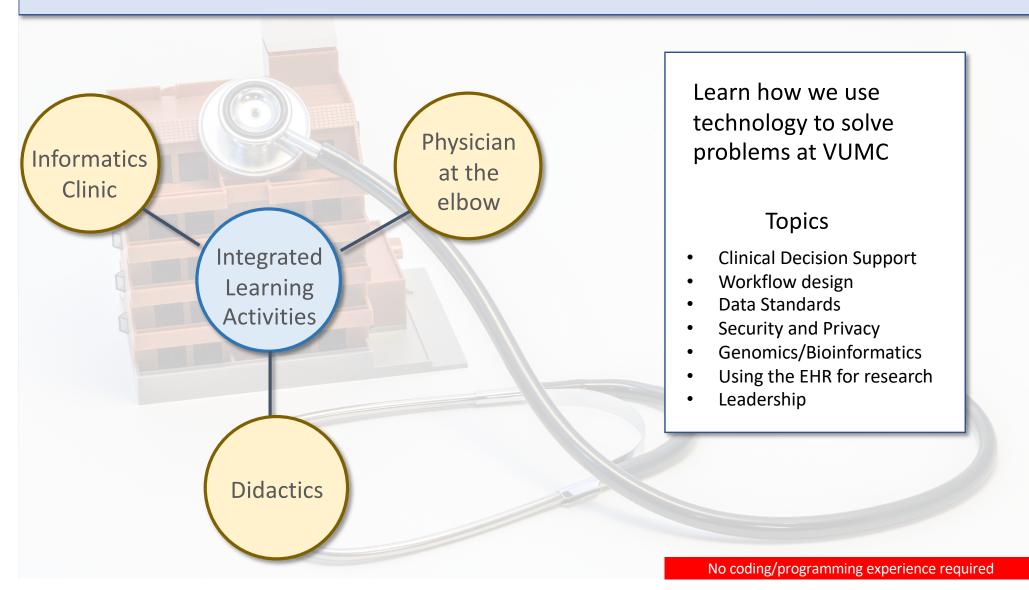
- General Cardiology/Imaging
- Interventional Cardiology
- Electrophysiology

Specialty Interests: All are welcomed!

Internal Medicine, Cardiology, Critical Care, Surgery (CT, Vascular) Anesthesiology, Emergency Medicine

Clinical Informatics Dara Mize, MD, MS and Travis Osterman, DO, MS

The healthcare system is your patient



Community Healthcare M. Cooper Lloyd, MD and Tiffany Israel, MSSW

Goals:

- Investigate the SDOH in the lives of individual patients, the Nashville community, and populations at large
- Hear from community resources and advocates in Nashville
- Develop skills working with and advocating for underserved populations

<u>Clinical settings:</u> outpatient clinics working with underserved communities. Some ex:

- Matthew Walker
- St. Thomas Family Clinic
- Maternal Addiction Program
- Comprehensive Care Clinic
- Faith Family Medical Center

<u>Specialties:</u> Students entering primary care fields as well as specialties welcome

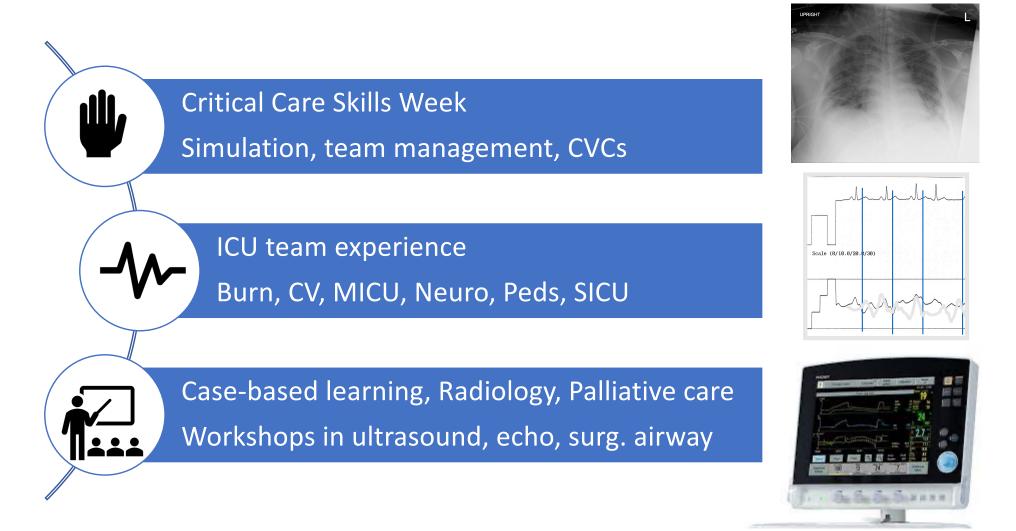
Science:

- Social determinants of health
- Population health
- Community engagement
- Public health
- Health policy
- Stress biology



Critical Illness

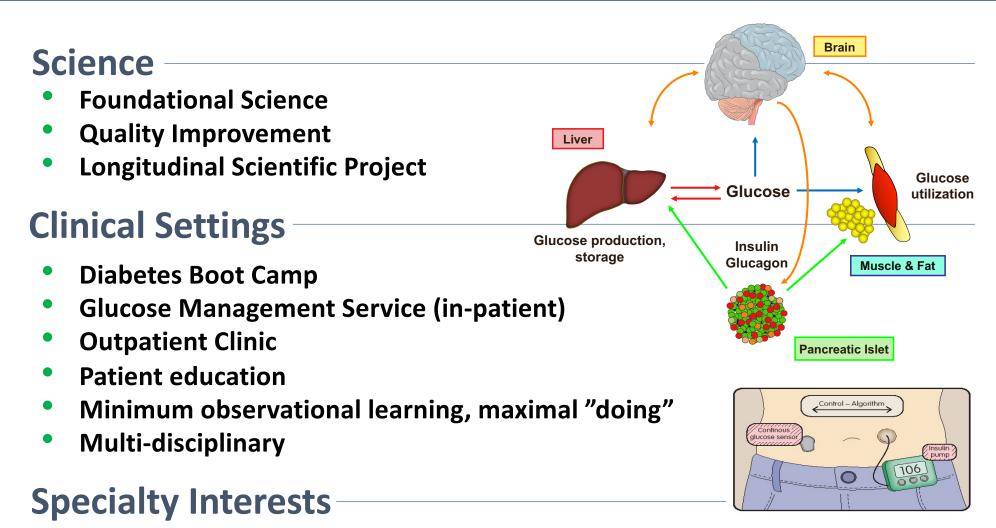
Jennifer King, MD, PharmD, Meredith Pugh, MD, Jeremy Walco, MD



Anesthesia, EM, IM, Pediatrics, Surgery and surgical subspecialties

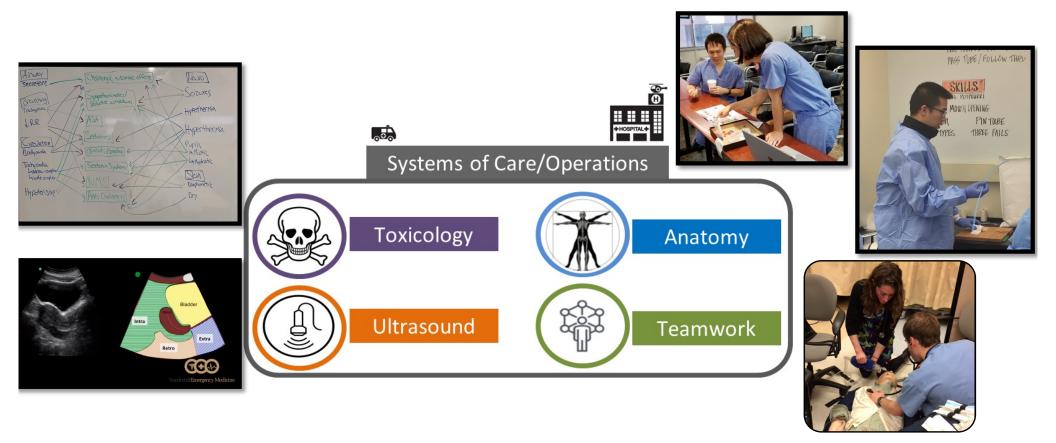
Diabetes

Alvin Powers, MD and Tiffanie Marksbury, NP



- Anyone who will see individuals with diabetes (that's just about everyone)
- Practical approaches to insulin, nutrition, and glucose monitoring

Emergency Care Kendra Parekh, MD, and Saralyn Williams, MD



Designed for students with interests in: anesthesia, critical care, EM, family medicine, IM, neurology, orthopedics, pediatrics, psychiatry, radiology, surgery and surgical subspecialties

Global Health

Marie Martin, PhD, MEd; Eiman Jahangir, MD, MPH; Elizabeth Rose, EdD, MEd, MPH

Focus on health systems and health disparities with opportunities for rotations in various specialties



https://tinyurl.com/ISCGlobalHealth

Healthy Aging & Quality Dying Mariu Duggan, MD, MPH & Andy Wooldridge, MD



Science

Physiology, biochemistry, immunology, pharmacology, neuroscience, psychology, epidemiology, preventive health, public health, social sciences, philosophy, ethics, science of healthcare systems

Clinical Settings

Skills week

1-week inpatient (geriatrics wards/consults, geri-psych, nursing home, PCU) 1-week outpatient (primary care, specialty clinics)

Specialty Interests

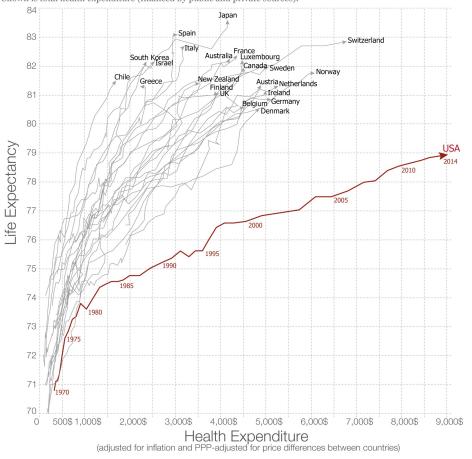
Internal Medicine and subspecialties, Surgery, Family Medicine, Neurology, Psychiatry, Emergency Medicine



High Value Care Krista Suojanen, MD, Miklos Kertai, MD, PhD, and Jim Powers, MD

Life expectancy vs. health expenditure over time (1970-2014) Our World

Health spending measures the consumption of health care goods and services, including personal health care (curative care, rehabilitative care, long-term care, ancillary services and medical goods) and collective services (prevention and public health services as well as health administration), but excluding spending on investments. Shown is total health expenditure (financed by public and private sources).



Data source: Health expenditure from the OECD; Life expectancy from the World Bank Licensed under CC-BY-SA by the author Max Roser. The interactive data visualization is available at OurWorldinData.org. There you find the raw data and more visualizations on this topic.

- Foundational Science: health systems science, ethics, implementation science, population health
- Didactics: lectures and discussion from variety of specialties and health policy faculty
- Case-based Learning: team-based work on real-world examples of implementing high value care
- Clinical setting: individualized clinic experience based on students' desires, VFF, utilization management, HiRISE clinic, patient centered medical home
- Specialty Interests: ANYONE!!

Infectious Diseases Holly Algood, PhD, Christina Fiske, MD MPH Cody Chastain MD, Isaac Thomsen, MD MPH



Science

Microbiology, molecular biology, immunology, pathophysiology, pathology, antimicrobial stewardship, infection prevention, pharmacology

Clinical Settings

Inpatient consult service(Pediatric or Adult), Outpatient clinics (Pediatric, General Adult, HIV), Microbiology lab, Tennessee Department of Health

Other Learning Modalities

Didactic lectures, case based learning, debate activity, journal clubs

Specialty Interests

ANYONE!!!









Injury, Repair & Rehabilitation (IRR) Shannon Eastham, MD

Science

Anatomy, Cell and Developmental Biology, Epidemiology, Ethics, Immunology, Implementation Science, Neuroscience, Nutrition sciences, Pathology, Pathophysiology, Pharmacology, Radiology, Social Sciences, Speech Sciences, and System Sciences

Clinical Settings

Trauma (ICU/Admits): 2 Nights and 2 Days Wound Team: 0.5 Day Medical Examiner's (Coroner's) Office: 2 Days Stallworth Rehabilitation Hospital: 0.5 Day

Specialty Interests

Surgery & Subspecialties, Emergency Medicine, Anesthesiology, and Aspiring MDs

Medical Imaging & Anatomy Will Laxton, MD and Scott Pearson, MD

Science

Advanced Clinical Anatomy labs*, radiation basics, contrast use, appropriate ordering



See MRI in action & procedures in fluoroscopy; Hands-on Ultrasound in CELA: SP & image-guided CVC placement; Practice being a Radiology resident; Radiology reading room experience*

Specialty Interests *Individualized based on your interest:

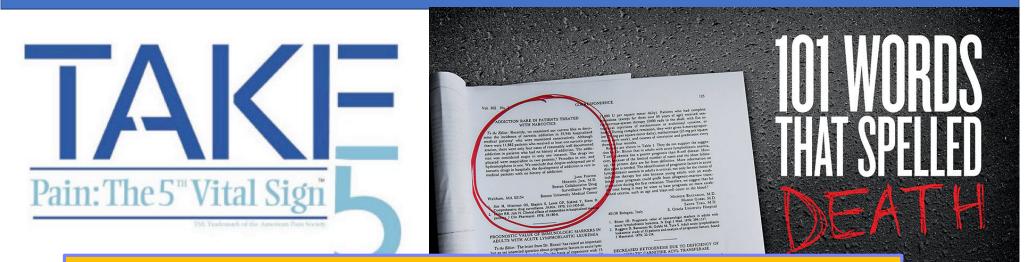
Internal Medicine, General Surgery, Emergency Medicine,



Orthopedic Surgery, Pediatrics, Neurology, Neurosurgery, Ophthalmology, Ob-Gyn, ENT, Radiology, Radiation Oncology,



The National Opioid Crisis: Pain, Policy, and Addiction David Edwards MD, PhD & Rebecca Donald, MD



How did these two things get us to where we are today?

Science:

- Neurobiology
- Physiology
- Pharmacology
- Psychology
- Epidemiology
- Public Health
- Preventative Health
- Science of Health Care Systems
- Complementary and alternative medicine
- Ethics
- Social determinants of health

	Hands-Or
Didactics	Sessions

Spine Clinic

nds-On Guest Speakers

Inpatient Chronic Pain Service

Clinical Experiences

Inpatient Pediatric Pain Service Women's Health

Interventional Pain Clinic Addiction Psychiatry Consult Service

Cedar Recovery Bridge Clinic (Suboxone Initiation & Stabilization)

Politics, Humanism, and How to Move Forward

Firefly Clinic (pregnant women and new moms)

Book Club

Pediatric Pain Clinic

- Student Led Discussions
 - Pediatrics
 Internal Medicine
 - & subspecialties

Anesthesiology

Specialty Interests:

Psychiatry

- Surgery & subspecialties
- Ob/Gyn
- Orthopedics
- Family Medicine
- Neurology
- Emergency Medicine
- PM&R

Sexual Medicine and Reproduction Melissa Kaufman, MD and Mary Romano, MD

Science

Embryology and development, Anatomy, Neurophysiology, Sexual function and response, Sexual orientation, Intimacy and behavior, Treatment of sexual dysfunction, Sexually transmitted infections, Infertility

Special emphasis is placed on interviewing techniques and skills for both adolescents and adults with a simulated patient encounter at CELA at the conclusion of the course.

Clinical Settings

Students will spend time in outpatient clinics including Adolescent Medicine, Urologic Surgery, Comprehensive Care Clinic, Adult Transgender Clinic and OB/GYN Family Planning Clinic.

Specialty Interests

Adolescent Medicine, Family Medicine, Internal Medicine, Obstetrics/Gynecology, Pediatrics, Psychiatry, Urology

The Skinny on Obesity Gisella Carranza Leon, MD and C. Robb Flynn, PhD

Highlights of the course

- Obesity boot camp
- Food analysis project
- Journal clubs on obesity interventions

Clinical Settings

- Medical Weight Loss Clinic
- Surgical Weight Loss
- Vanderbilt Lipid Clinic
- Diabetes Eskind Clinic

Science

- Adipose tissue physiology
- Gut regulation of metabolism
- Nutrition
- Pathophysiology, pharmacology, diagnosis and treatment of obesity and its complications.
 - Physicians
 - Nurse practitioners
 - Dietitians
 - Exercise physiologists

Specialty Interests

All specialties must deal with patients with obesity, but critical for Internal Medicine and subspecialties, Pediatrics and subspecialties, Surgery (all types), Neurology, Ob/Gyn

Clinical Cancer Medicine Kim Dahlman, PhD and Vicki Keedy, MD, MSCI

"This is by far the best course that I've taken at Vanderbilt"

"This was really a unique experience for me in medical school. It's truly been an eyeopening month for me and is making me question (in a good way) where I may want my career to go."

"I thought that the teaching didactics (CBL and TBL) were a great way to have us independently learn without having to sit in traditional lectures."

"This was an extremely rewarding course."

"I felt it [the course] taught concepts that I was formerly completely unaware and in a way that I could grasp them."

How Doctors Think: Clinical Reasoning & Decision Making Cody Chastain, MD, Travis Crook, MD Kendra Parekh, MD, & Chase Webber, DO

Science

- <u>Clinical reasoning</u> & <u>medical epistemology</u>
- Foundational sciences include behavioral psychology, biostatistics, epidemiology, epistemology, ethics, pathophysiology, & pharmacology

Clinical Settings

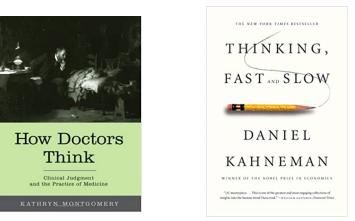
- Internal Medicine, Pediatrics, & Emergency Medicine
- 2-3 shifts for Weeks 1-3

Learning Modalities

- Meaningful clinical engagement
- Online asynchronous didactics & independent reading
- Clinical reasoning reports
- Critical analysis of evidence & practice of medicine
- Simulation and more!

Specialty Interests

 <u>Anyone</u> who wishes to <u>think critically & deeply</u> about their practice of medicine



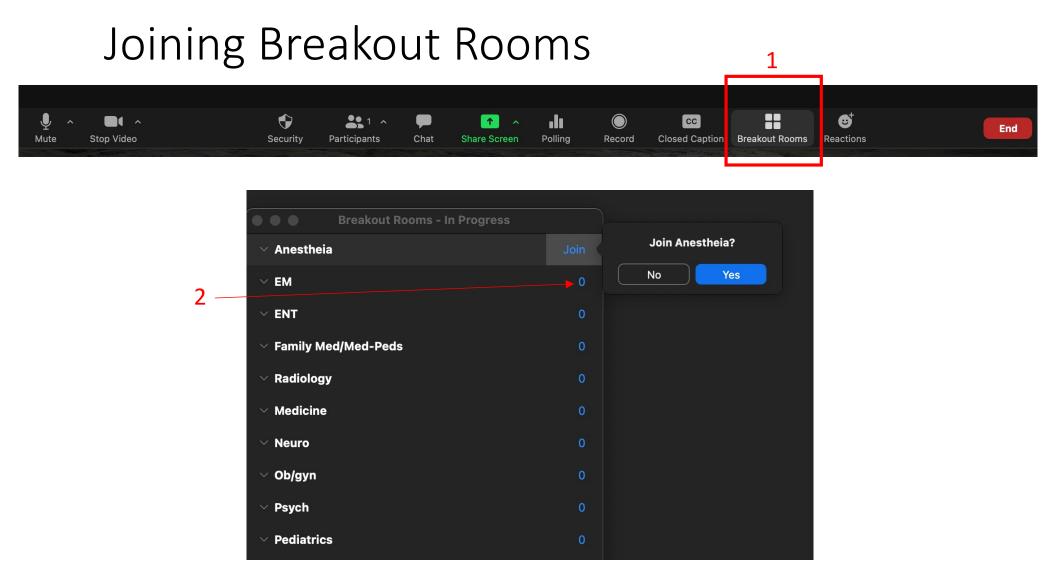




Images from amazon.com, medicine.vumc.org, and clinicalproblemsolving.com

ISC Offerings in 2022-23

		Academic Year 2022-23											
Course	Max Capacity	7	8	9	10	11	12	1	2	3	4	5	6
Cancer	10												
Cardiovascular Diseases	8												
Clinical Informatics	8												
Community Healthcare	8												
Critical Illness	24												
Diabetes	4												
Emergency Care	6												
Global Health	n/a	any month with approval of international travel											
Healthy Aging and Quality Dying	8												
High Value Care	8												
How Doctors Think	8												
Infectious Diseases	8												
Injury, Repair, & Rehabilitation	8												
Medical Imaging and Anatomy	9												
Obesity	4												
Opioid	8												
Sexual Medicine & Reproduction	8												



Open the Breakout Rooms dialogue box from the bottom of the Zoom screen.
 Hover over the number in the far-right column and a "Join" button will appear.