Becoming a Medical Specialist and a Lifelong Learner:

Residency, Fellowship, and Continuing Medical Education

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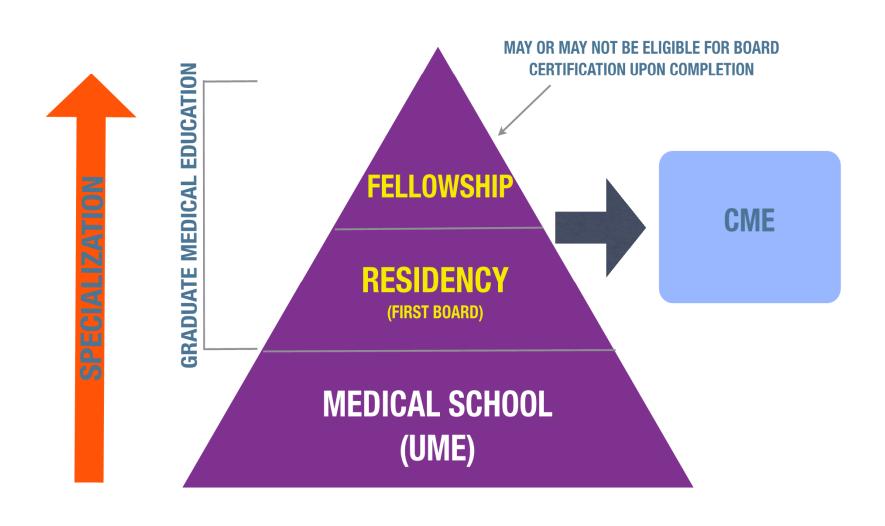
Education

UCSF Osher Mini Medical School for the Public November 29, 2017

Topics for Tonight

- Graduate Medical Education (GME)
 - Residents
 - Fellows
 - Advanced fellows (not yet formally accredited)
- Lifelong Learning
 - Continuing Medical Education (CME)
 - Maintenance of Certification (MOC)

What is Postgraduate Training?



Specialties of Medicine

- Allergy & Immunology
- Anesthesiology
- Colon and Rectal Surgery
- Dermatology
- Emergency Medicine
- Family Medicine
- Internal Medicine
- Medical Genetics and Genomics
- Neurological Surgery
- Nuclear Medicine
- Obstetrics & Gynecology
- Ophthalmology
- Orthopaedic Surgery
- Otolaryngology

- Pathology
- Pediatrics
- Physical Medicine & Rehabilitation
- Preventive Medicine
- Plastic Surgery
- Preventive Medicine
- Psychiatry & Neurology
- Radiology (includes Radiation Oncology)
- Surgery
- Thoracic Surgery
- Urology

Specialties and Subspecialties of Medicine

Residency Programs	Fellowship Programs
Internal Medicine	Cardiology Rheumatology Hematology/Oncology
Pediatrics	Pediatric Critical Care Pediatric Nephrology General Pediatrics
Radiology	Abdominal Imaging Cross-Sectional Imaging Pediatric Radiology
Ophthalmology	Uveitis Retina Glaucoma
Neurological Surgery	Functional Neurosurgery Spine

What is a Resident or Fellow?

- Med School Graduate
- Doctor (Medical License)
- Care Provider
- Team Member
- Learner
- Scholar
- Teacher
- Patient Advocate
- Community Advocate





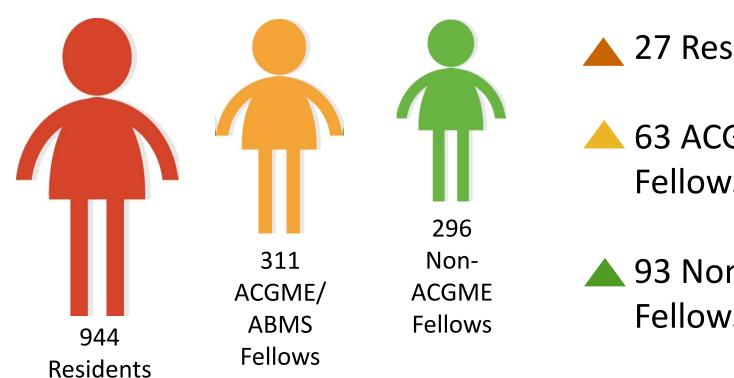
Education versus Service



Supervision versus Autonomy



2017-2018 **UCSF** Residents and Fellows



- 27 Residencies
- 63 ACGME/ABMS **Fellowships**
- 93 Non-ACGME **Fellowships**



Oversight and Quality: ACGME and UCSF

- Requirements
 - Institutional
 - 2. Common Program
 - 3. Program
- Review Committees
 - Length of training
 - How many trainees
 - What they have to learn
 - How they have to learn
 - Program personnel
 - Well-being
 - Evaluation and assessment
 - How is the program doing

Sponsoring Institution
Designated Institutional Official
Rotations and Sites
Faculty
Work Hours

Learning Environment



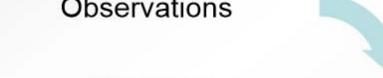
Accreditation Council for Graduate Medical Education

Continuous Improvement

The "Next Accreditation System"

"Continuous"

Observations



Assure Improvement has Occurred and is Sustained

Promote Innovation

Identify Areas for Improvement

Assess and address the reasons for the areas needing improvement (Diagnosis and Treatment)



The Building Blocks of the ACGME Accreditation System

Program Self Study Visits – 10 years

Institutional Self Study Visits—10 years

Additional Site Visits as Needed

Continuous RRC Oversight and Accreditation
Core Program Oversight of Subspecialties
Sponsor Oversight for All

Clinical Learning Environment Review (CLER) Visits every 18 months

Outcome Data for Annual Review

- Program attrition
- Program changes
- Scholarly activity (faculty and trainees)
- Board pass rate (from Boards)
- Clinical experience (case logs, survey data)
- Resident survey
- Faculty survey
- Milestone reporting

Categories of Accreditation

Initial Accreditation

> New Programs

Accreditation with Warning

Accredited Programs on Probation or Warning

Probationary Accreditation Maintenance of Accreditation

Accredited Programs without Major Concerns

Continued Accreditation

STANDARDS

Structure Resources Core Process Detailed Process Outcomes

Structure
Resources
Core Process
Detailed Process

Outcomes

Withhold Accreditation
Withdrawal of Accreditation

Structure
Resources
Core Process
Detailed Process
Outcomes

Structure Resources Core Process

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Outcomes

ACGME

GME Principles

- Excellence in quality of care of today's patients
- Excellence in quality of care of patients cared for by today's residents in the future
- Excellence in professionalism through faculty modeling:
 - Effacement of self-interest in a humanistic environment
 - Joy of curiosity, problem-solving, intellectual rigor, discovery
- Commitment to well-being of residents, faculty, students and all members of health care team

Primary Drivers

AIM Integrate health care delivery system operations and graduate medical. education. (GME), such that the clinical learning environment (CLE) enables measurable. improvement in both learner. experience and patient care.



Align the organization's strategic priorities and GME strategic priorities.



Establish the processes and practices that fully integrate CLE staff and learners into the pursuit of quality, safety, equity, and value in the organization.



Create qualified, engaged, and motivated educators capable of practicing, teaching, and assessing quality, safety, equity, and value to residents.



Maximize shared learning with coordinated educational resources across health professions.



UCSF Health MISSION Caring - Healing Teaching - Discovering VISION Be the best provider of health care services the best place to work and the best environment for teaching and research. **VALUES** Professionalism - Respect - Integrity - Diversity - Excellence TRUE NORTH PILLARS & STRATEGIC PRIORITIES Quality Our Strategic **Financial** Learning & Safety Growth People Strength Health Patient System Experience • Achieve Expand Create an Zero Harm Lower Our · Advance, Deliver an **Optimal** Our Reach Continually Costs Apply and Outstanding Optimize Work Improve Disseminate Patient Experience Access Patient Knowledge Experience Care THE UCSF HEALTH WAY: OUR MANAGEMENT SYSTEM Align - Engage - Improve

REDEFINING POSSIBLE

Financing Graduate Medical Education



- Mostly from Medicare Trust Fund
- Institution sends reports to Medicare
- Each clinical site contributes
- Must be paid at all times (no volunteering)
- Other funding:
 - State appropriated
 - Grants
 - Department funds
 - Other funds
 - Military
- All funds processed through UCSF School of Medicine (except military)

Continuing Medical Education (CME)

- CME is for practicing health care providers, designed to support and improve:
 - Medical Knowledge
 - Patient Care and Procedural Skills
 - Practice-based Learning and Improvement
 - Communication
 - Professionalism
 - Systems-based Practice
 - Technology Skills



Continuing Medical Education (CME)

- >790 Accredited CME providers in the US
 - -132 are medical schools
- Accredited by the Accreditation of Council of CME (ACCME)
- CME credits are required to maintain licensure

Continuing Medical Education (CME)

- Valid continuing education credit for other professions
- Purpose is to improve knowledge, competence, performance and patient outcomes through unbiased education and training
- CME is one part of Continuous Professional Development (CPD)

CME Design: CME Fills a Gap

- Practice gap is the result of an educational or practice need:
 - Knowing something
 - Knowing HOW to do something
 - Actually doing something

Ideal Practice=100% VTE prophylaxis

Current Practice
=33% VTE prophylaxis

Practice Gap 67% of eligible pts do not receive VTE prophylaxis

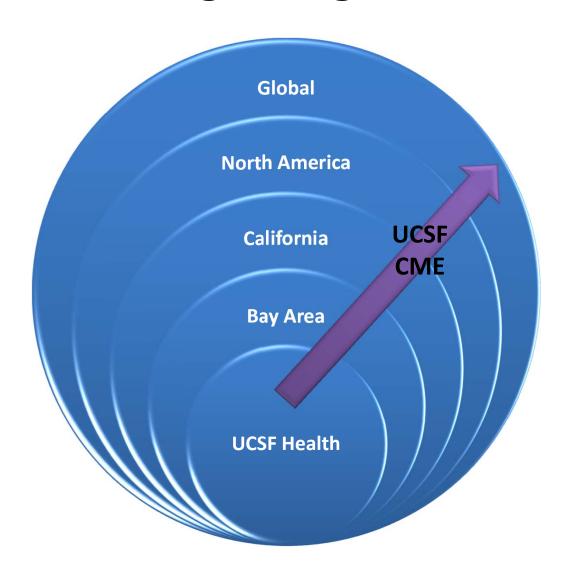
CME Design: Avoiding Bias

- Education without influence of commercial interests.
- Disclosure of financial relationships from anyone in control of content.
- Financial relationship with a company that produces goods or services related to the education = conflict of interest.
- Conflicts must be resolved or eliminated.
- Education must be evidence-based, scientifically rigorous, within accepted practice, and without commercial bias.

CME Design: How Does it Work?

- Identify a gap and determine the need (knowledge, competence or performance).
 What is it providers are not doing?
- Determine the expected outcomes of education. What is it providers ought to be doing?
- Plan an activity to deliver the knowledge, strategies and skills to meet the need and fill the gap.

CME Design: Target Audience



CME Design: How Does it Work?

- Make a plan to evaluate the effectiveness.
- Revise and repeat, if necessary.
- Peer review to ensure elements are satisfactory and meeting UCSF's mission for continuing education.

CME Design: Ensuring Independence

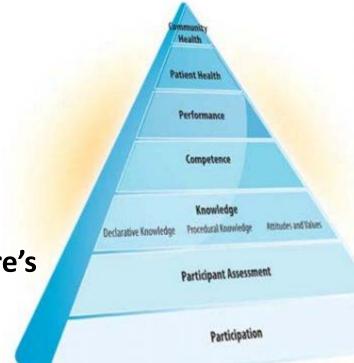
- Obtain financial relationships.
 - Disclosure form
 - Verbal/email dialogue
- Identify conflicts of interest.
 - Products/services of company related to content = Conflict of interest
- Mitigate, or resolve, conflicts of interest.
 - Content validation
 - Consultation to avoid bias and treatment recommendations
 - Peer review
- Monitor perceptions of bias through evaluation.

CME Design: Evaluation

 Educational activity assessed for impact on improving strategies, skills, performance or patient outcomes.

Surveys

- Post-tests
- Case Vignettes
- Direct observation
- Patient charts, registries
- Assessment level is based on Moore's Pyramid for CME Outcomes



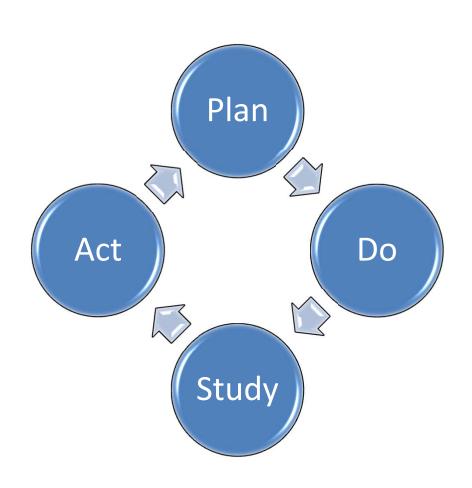
CME Delivery: UCSF

- Courses, conference, symposia (in-person) 90/year
- Webinars, streaming video, streaming audio (online, ondemand) – 45/year
- Grand rounds, M&M conferences, tumor boards, monthly webinars – 60/year
- Adjunct activities include non-accredited activities.
- Patient and community education to better inform healthcare consumers and integrate shared decisionmaking
- Quality Improvement projects.

Maintenance of Certification (MOC)

MOC Component	Commonly known as
Part I: Professionalism and Professional Standing	State Licensure
Part II: Lifelong Learning and Self- Assessment	CME and Self-Assessment
Part III: Assessment of Knowledge, Judgment, and Skills	Pass a written examination
Part IV: Improvement in Medical Practice	Engage in ongoing assessment and improvement activities to improve patient outcomes

Continuous Professional Development Leads to Healthcare Improvements





UCSF

