



University of California
San Francisco

Mini Med School

Preparing the UCSF Physician

BRIDGES CURRICULUM

Who We Are?

■ Catherine Lucey MD

- Vice Dean for Education
- Professor of Medicine
- *The Faustino and Martha Molina Bernadett Presidential Chair in Medical Education*

■ John Davis MD PhD

- Associate Vice Dean for Curriculum
- Associate Professor of Medicine

The Lenses Through Which We Look

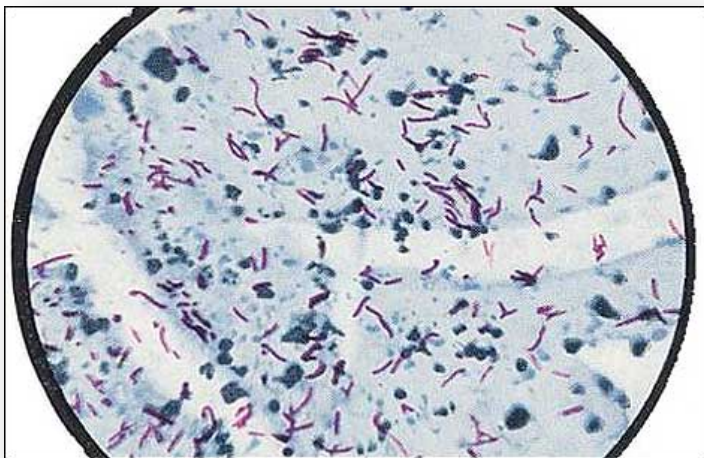


A belief:

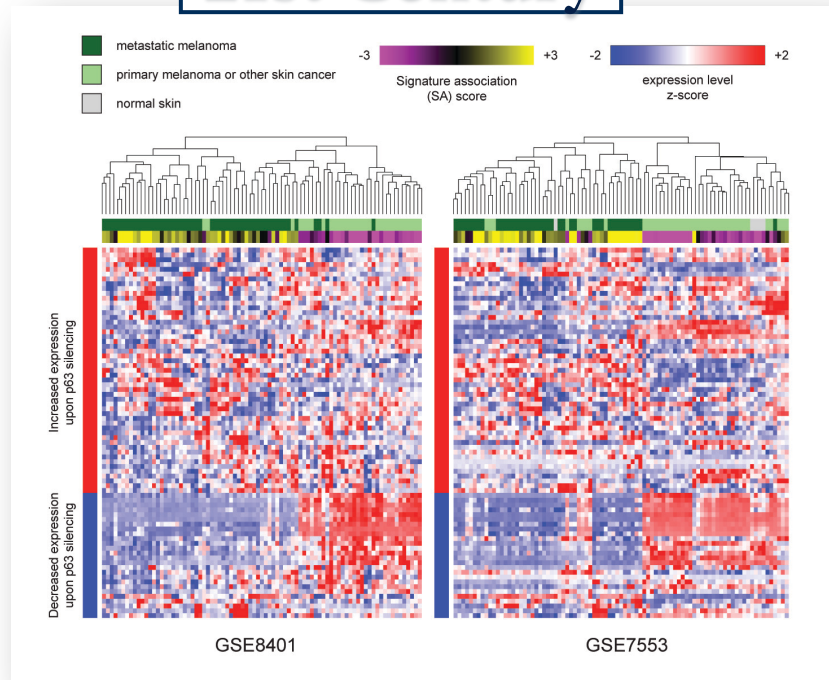
The purpose of medical education is to improve the health of our communities and to decrease the burden of suffering from illness and disease.

Foundational Science has Changed

20th Century

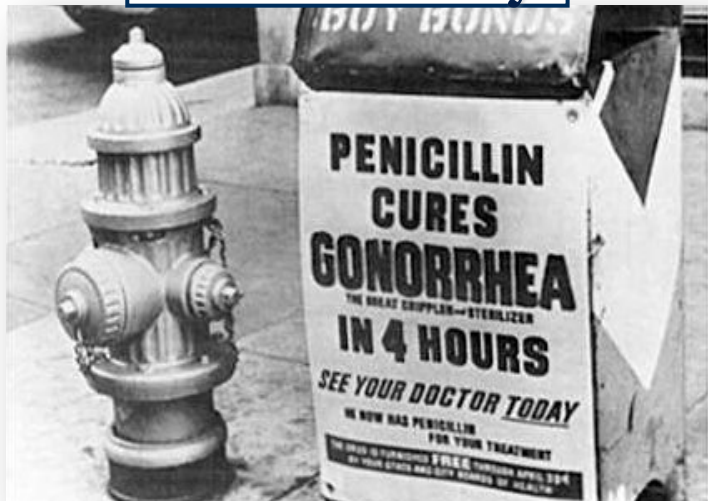


21st Century

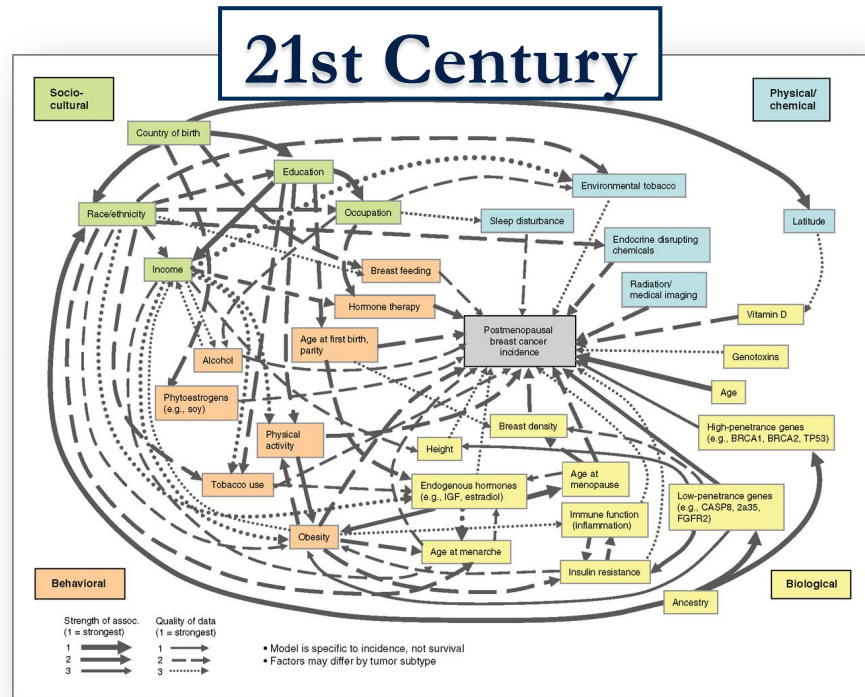


The Burden of Illness and our Views of Disease have Changed

20th Century



21st Century



The Way We Find and Disseminate Information has Changed

20th Century



21st Century

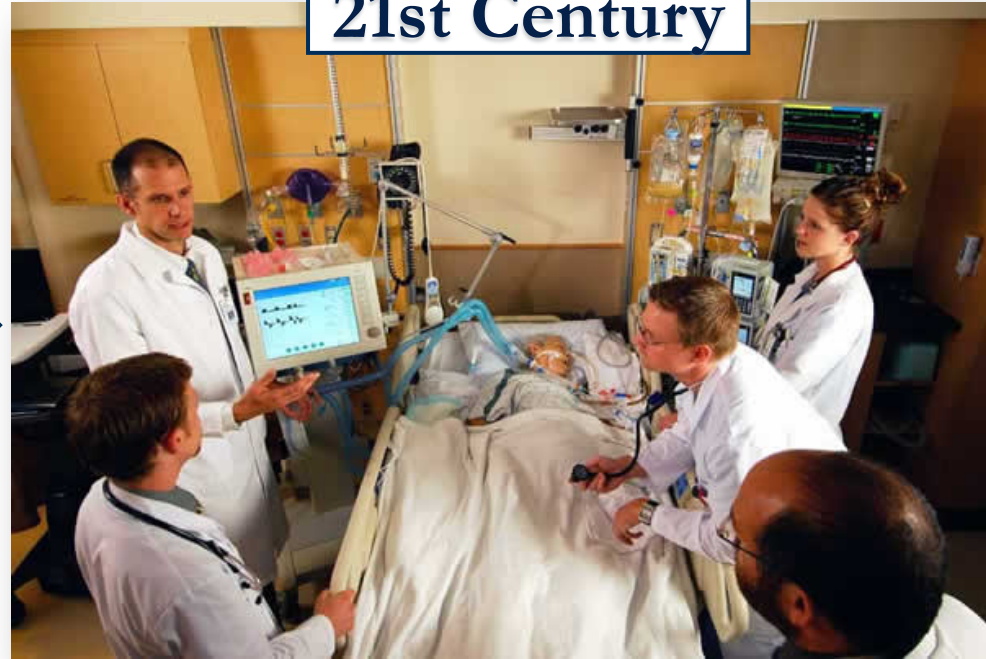


The Way we Deliver Care has Changed

20th Century

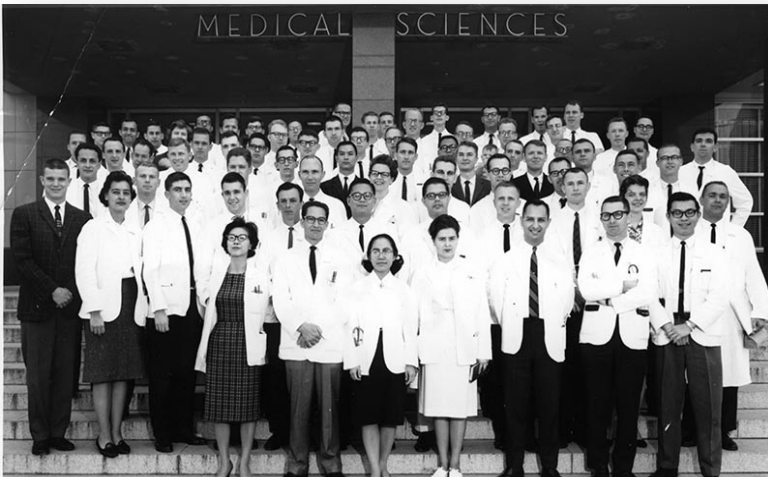


21st Century



Our Students have Changed

20th Century



21st Century



Our Understanding of How Learners Learn Best Has Changed

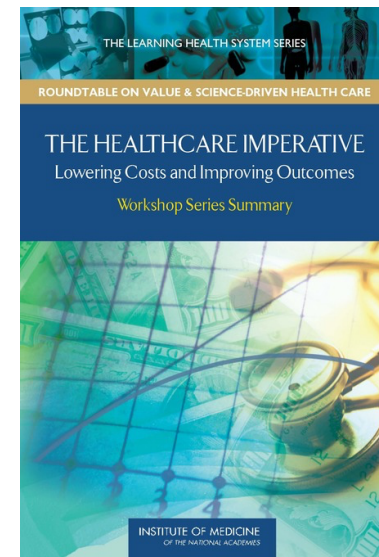
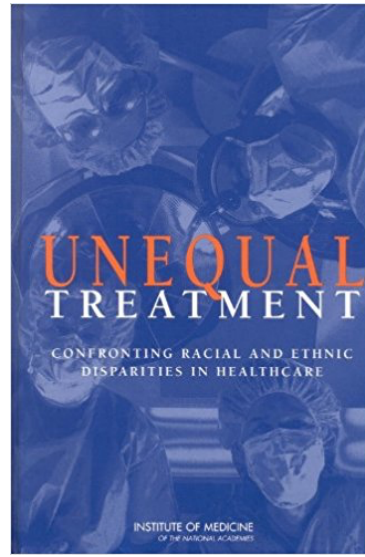
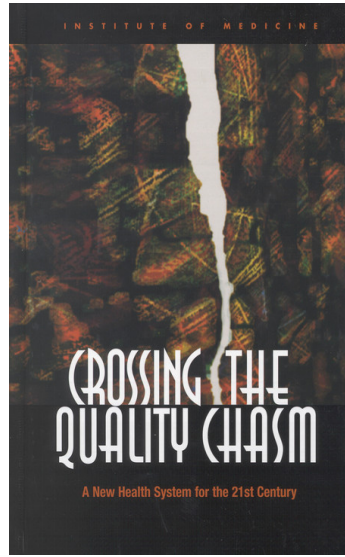
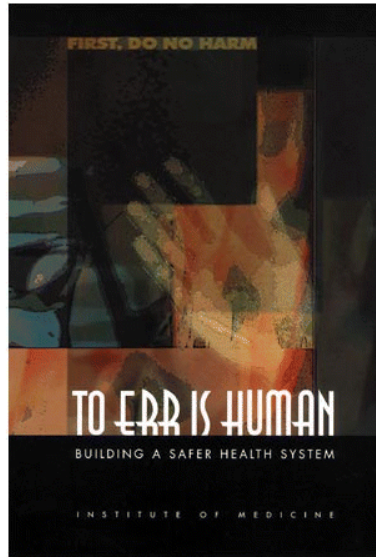
20th Century



21st Century



Our Understanding of the Root Cause of Critical Issues has Changed



Safety

Quality

Equity

Accuracy

Value

Our Patients have Changed... And have Stayed the Same



In 2012, UCSF Faculty Asked: How Might We Design a Curriculum that

- Educates 21st century graduates to deliver measurably excellent health care and advance science over a long career?
- Honors the impact that the best of UCSF faculty in all mission areas have had on our community and our world?
- Maximizes learning and wellbeing, not only of our students but of our faculty?

Our Premise:

You should know a UCSF Graduate by the way they approach patients, problems, and populations.

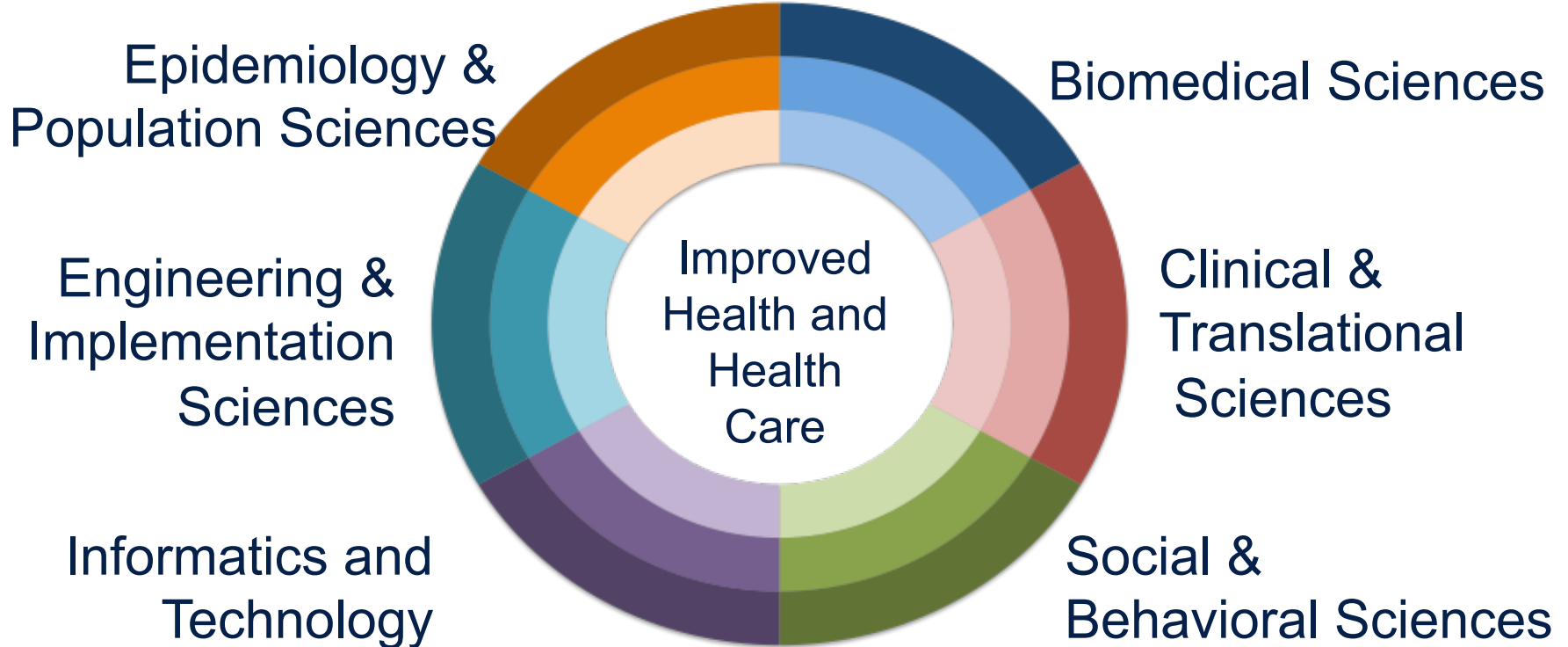
Enduring and Emerging Competencies



A UCSF Physician believes in:

- The essential role of physician as healer, meeting the needs of a diverse population of patients;
- The imperative of advancing science to reduce the burden of suffering from illness and disease;
- The obligation to measure and continuously improve the quality of health care for all;
- The vitality of interprofessional and interdisciplinary teams;
- The urgency of eliminating disparities in health, health care and opportunity

Solving Today's Problems Will Require Discovery in Multiple Scientific Domains



Our Responsibility: Cultivate the Habits of Mind of the 21st Century Physician

1. Inquiry
2. Patient-Centered
Continuous Quality
Improvement
3. Social Justice





The UCSF School of Medicine Bridges Curriculum:

5 years of work
>400 faculty, staff and students

Preparing the 21st Century Physician

Phases

Foundations I

Foundations II

Career Launch

Foundational Science

Clinical Skills and Systems Improvement

Inquiry, Innovation & Discovery

Elements

REGN	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	
Week 4	2/6/17	2/7/17	2/8/17	2/9/17	2/10/17	
8:00 AM	Lecture: Diuretic Agents Kruidering	Health Systems Improvement #2 Gap Analysis		Large Group Clinical Acid- Base Disorders	Large Group: Weekly Wrap- Up: AKI/CKD/ESRD, Clinical Sodium, K, Phos	
8:30 AM						
9:00 AM						
9:30 AM			Travel to Sites			
10:00 AM	Lecture: Chronic Kidney Disease and End Stage Renal Disease Rolon	Microsystem + MS1 Clinical Preceptorship Session		Small Group: Renal Integration Cases	Lecture: Liver Physiology Mitrovic	
10:30 AM						
11:00 AM						Lecture: Liver Blood Supply Mitrovic
11:30 AM						
12:00 PM						
12:30 PM		Lunch + Travel				
1:00 PM	Inquiry Small Group: Case 6: Part 2 (Diarrhea + C Diff)	Small Group on Non- Adherence	Small Group: Mechanisms of Diuresis and Diuretic Drugs Kruidering	<div style="border: 2px solid #003366; border-radius: 20px; padding: 10px; text-align: center;"> <p>Active Learning And Clinical Time Supported by Blended Learning Approach with High Quality Video Lessons</p> </div>		
1:30 PM						
2:00 PM	Inquiry Small Group: Case 7: Part 1(Osteoporosis)					
2:30 PM						
3:00 PM		MS1 Clinical Preceptorship Debrief				
3:30 PM			Large Group: Clinical Sodium Cases			
4:00 PM						
4:30 PM						
5:00 PM						
5:30 PM						



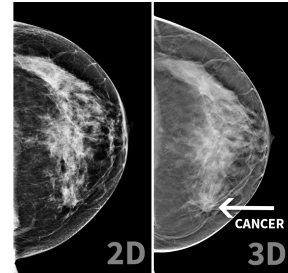
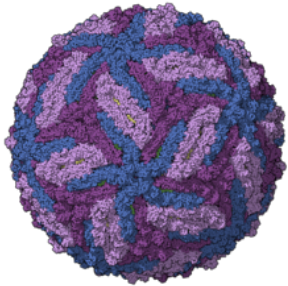
Inquiry Curriculum: the Anti-Medical School

- Identifying and Seeking Insights into Unanswered Questions in Medicine and Health Care using all Domains of Science

Core Inquiry Cases

Inquiry Immersion
Blocks

Capstone Scholarly
Project



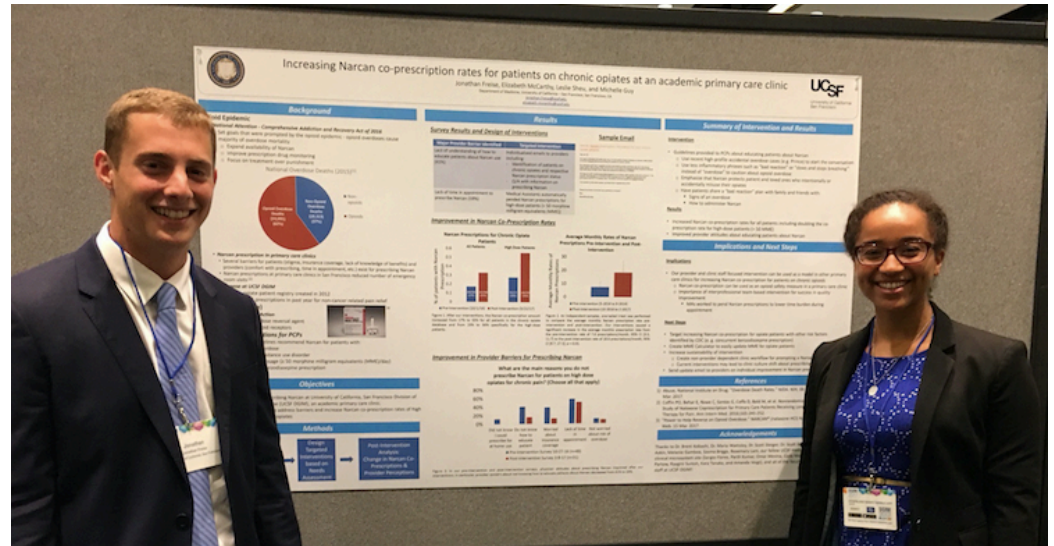
Clinical Microsystems Curriculum: First Year Students Adding Value while Learning

- Longitudinal assignment to a care delivery site
- Goals:
 - Become a valued teammate
 - Measure & improve Patient Experience
 - Learn clinical skills, simulation 1st before practice w/patients



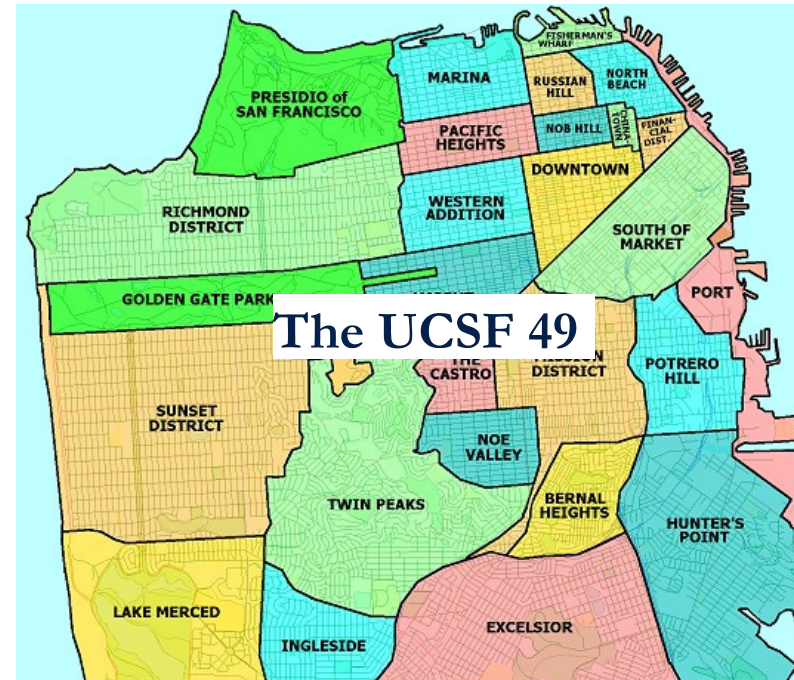
Students Adding Value while Learning: Examples of Projects

- Preoperative conditioning of geriatric patients
- Appropriate use of Narcan in patients using opioid pain meds.
- Increased documentation of End of Life planning conversations



Honoring our Public Mission: A Commitment to Social Justice and Health Equity

- Content Exemplars: Causes of M&M in SF Bay area
- Neighborhood Community Service during Orientation
- 2 New Content Blocks:
 - Health and the Individual
 - Health and Society



Anticipating Advances: The “DR” Block (Data and Reasoning)

- Learning how to optimize the interface between humans and computers to serve our patients.



Isabel

Enter Clinical Features

Clinical Features

Age* young adult 17-29yr ▾

Gender Female Male

Pregnancy not-pregnant ▾ ⓘ

Travel History North America ▾ ⓘ

Enter Abnormal Clinical Features
NO negatives and NO numbers: ⓘ

hypotension

leukocytosis

Add more Clinical Features

Get Checklist Clear Search

Possible Diagnoses

Show 10	Show all	Red Flags
<input checked="" type="checkbox"/> Sepsis and Shock ⓘ	<input type="checkbox"/>	<input checked="" type="checkbox"/> Shock ⓘ
<input type="checkbox"/> Septic Shock ⓘ	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Toxic Shock Syndrome ⓘ	<input type="checkbox"/>	<input checked="" type="checkbox"/> Infec ⓘ
<input type="checkbox"/> Staphylococcal Toxic Shock Syndrome ⓘ	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Necrotizing Fasciitis ⓘ	<input type="checkbox"/>	<input checked="" type="checkbox"/> Infec ⓘ
<input type="checkbox"/> Cytokine Release Syndrome ⓘ	<input type="checkbox"/>	<input checked="" type="checkbox"/> Immuno ⓘ
<input checked="" type="checkbox"/> Acute Porphyria ⓘ	<input type="checkbox"/>	<input checked="" type="checkbox"/> Metab ⓘ
<input type="checkbox"/> Acute Intermittent Porphyria ⓘ	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Bowel Perforation ⓘ	<input type="checkbox"/>	<input checked="" type="checkbox"/> Gastro ⓘ
<input checked="" type="checkbox"/> Drug Overdose/Poisoning ⓘ	<input type="checkbox"/>	<input checked="" type="checkbox"/> Tox ⓘ
<input type="checkbox"/> Iron Toxicity ⓘ	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Meningococcal Disease ⓘ	<input type="checkbox"/>	<input checked="" type="checkbox"/> Infec ⓘ
<input checked="" type="checkbox"/> Industrial / Household Toxicity ⓘ	<input type="checkbox"/>	<input checked="" type="checkbox"/> Tox ⓘ
<input type="checkbox"/> Ethylene Glycol Toxicity ⓘ	<input type="checkbox"/>	<input type="checkbox"/>

Feedback

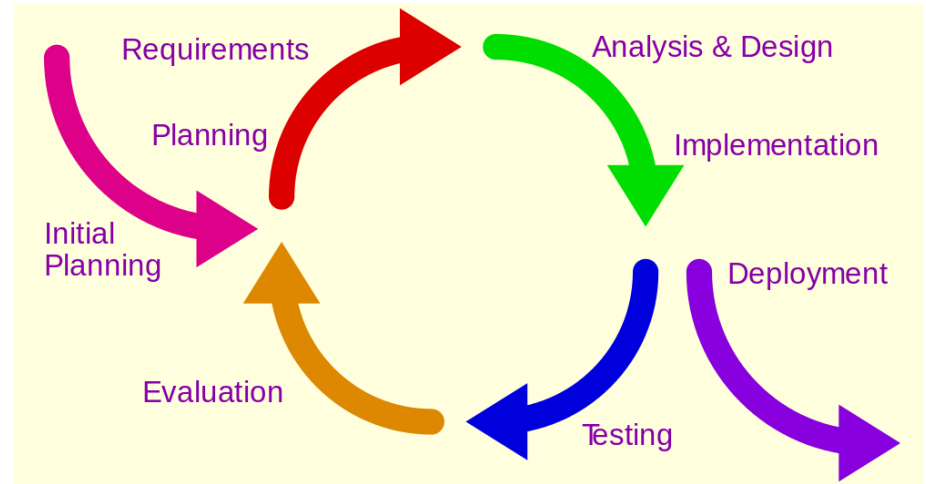
Supporting Well-Being and Professional Development



Coaching in small groups to guide learning and career choice

Navigating the Journey of Change

- Communal Purpose
- Inclusive, Scholarly Approach
- Iterative, Data-Driven, Participatory Design
- Embrace of Criticism
- Financial Support from Institution and Grants
- Communication!!!!



How will we know if we are successful?

Educational **Process** Metrics

- Student Satisfaction and Performance
- Faculty Satisfaction
- Scholarly Projects

Educational **Outcome** Metrics

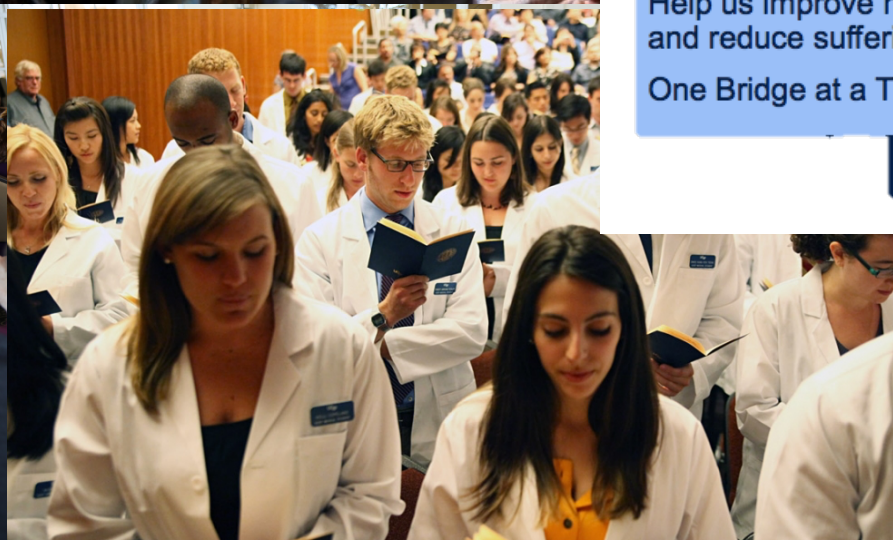
- National Licensing Exams
- Residency and Career Choice
- National Reputation

Clinical Outcomes

- Clinical Site Professional Satisfaction
- Clinical Quality Metrics



UCSF Bridges
Curriculum:
Help us improve health
and reduce suffering.
One Bridge at a Time





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UCSF