

# New Directions for 'Clerkship' Education: Lessons from Three Schools

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## New Directions for Medical Education



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WASHINGTON



# Longitudinal Integrated Clerkships: The Year III Alternative Curriculum

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### Definition of LIC



Longitudinal Integrated Clerkships are those having the central element of clinical education where medical students:

- Participate in the comprehensive care of patients over time
- Have continuing learning relationships with these
- patients' clinicians,
  Meet, through these experiences, the majority of
  the year's core clinical competencies across
  multiple disciplines simultaneously.



#### Content



- Background: Program Demographics
- Motives
- Objectives
- Process for selecting students
- Structure
- Assessment of Learning
- Challenges
- Outcomes



# Background: Demographics



- Initiated in 2002-2003 AY
- Developed in conjunction with major curriculum reform that began in mid-1990's
- Developed by Year 3-4 Curriculum Committee
- Barriers
- Selects up to 12 students in competitive application process



#### Motives



- Shrinking range of clinical problems in inpatient settings
- Lack of opportunities to experience electives
- Lack of substantive continuity experiences in women's health/obstetrics, primary care specialties, psychiatry
- Limited exposure to attending faculty physicians for education and assessment
- Limited exposure to 'realistic' practice environments

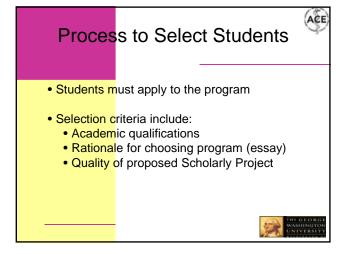


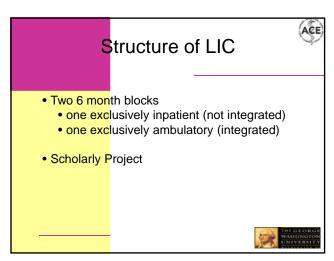
# **Objectives**

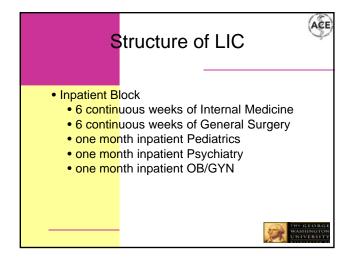


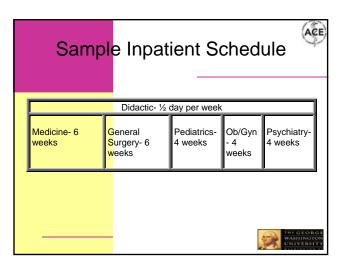
- Learning Objectives were the same as for the standard curriculum
- Link students to a small number of clinical faculty in ambulatory practices
- Provide flexibility in choice of practice-type (private, integrated, community-based)
- Provide longitudinal patient care experiences
- Provide elective opportunities
- Provide flexible time to pursue special Scholarly Project

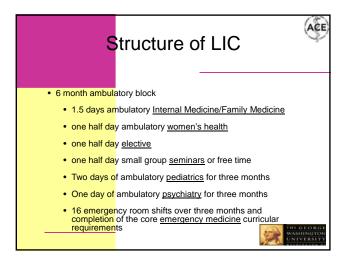


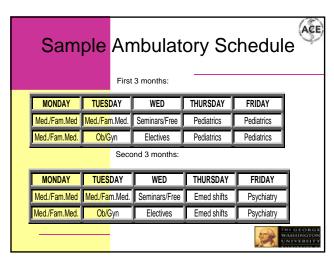












# How Does This Differ from the Regular Curriculum?

- Much longer ambulatory <u>pediatrics</u> exposure
- Much longer ambulatory internal medicine/family medicine exposure
- Longitudinal women's health exposure
- New ambulatory <u>psychiatry</u> curriculum
- More opportunities to experience electives
- Opportunity to complete emergency medicine in Year 3 instead of Year 4
- More time for Scholarly Project



### **Assessment of Learners**



ACE

- Faculty use standard evaluation form for subjective evaluation of clinical performance
- Students complete the same OSCE exams and NBME Subject Exams, but on their own flexible schedule.
- Assessments are incorporated into the 6 core clerkship grades.



# Challenges



- Only 12 students can be assigned per year. Expansion considered too difficult
- Scheduling is very complex
- Suitable ambulatory psychiatry and ob/gyn sites are very difficult to find
- Although longitudinal experiences are much longer, they are probably still too short to have fidelity with real practice
- Students are assigned to preceptors, not to a cohort of their own' patients. Preceptors/patients are not all in a single integrated delivery system.

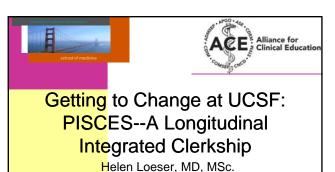


#### Outcomes



- Highly rated by students (of course, they self-select!!)
- Case-control study of first 6 cohorts shows no difference in:
  - Clerkship grades
  - Step 2 CK scores
  - NBME subject exam scores
  - End-of-third year OSCE scores
  - Specialty choice
  - Match rates





Associate Dean, Curriculum
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# school of medicine

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 Defined and limited clinical core Transformed "preclerkship" curriculum Pride in outcomes (except û grads=faculty)

Universal challenge: transform clinical

National leadership in innovation

learning

# Recent Change **Process**



Curriculum Retreat

on Clinical Learning

Clinical Innovation

Incremental clinical

core PILOTS to test

guiding features

Task Force for

2005-6

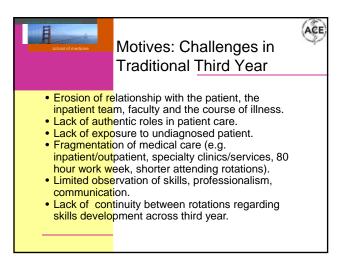
2005 →

· Continuity with patients

**Guiding features:** 

- · Continuity of site; system
- · Relevant core curriculum · Continuity with peer cohort
- · Continuity with faculty
- Experience w/ "undifferentiated" patients







#### **Definition of LIC**

Longitudinal Integrated Clerkships are those having the central element of clinical education where medical students:

- 1) participate in the comprehensive care of patients over time
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- 3) meet, through these experiences, the majority of the year's core clinical competencies across multiple disciplines simultaneously.



#### ACE Structure: PISCES Program Overview

- One-year integrated longitudinal clerkship (third year) at major academic medical center and practices
- 2007-2008: Pilot with 8 students
- 2008-9: Expanded to 16 students
- 2009-10: stable at 16 students



#### Structure: PISCES Program Overview

- Core Elements
  - Patient cohort
  - Longitudinal Preceptor clinics
  - Advising/mentoring program

  - Longitudinal curriculum
    ED, OR, and "call" sessions
  - Inpatient immersion
  - Comprehensive student assessment
  - Program assessment



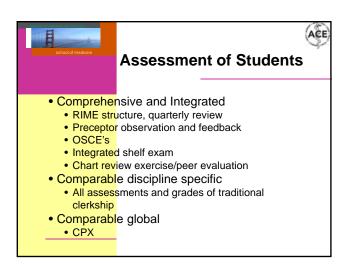
#### Key Element: Patient **Cohort**

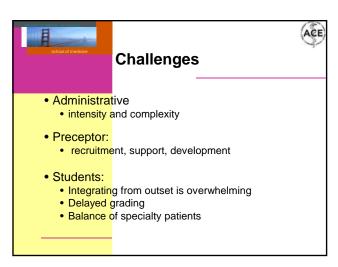


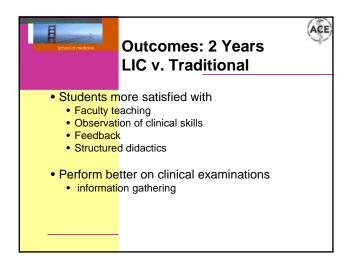
- Students acquire their own cohort of patients (50-75) via acute care sessions, call and preceptorships
- Students follow patients wherever they go
- Pager notification when cohort patients @ ED, L&D, admissions, OR and clinics
- Patients selected to target core competencies for each discipline, and for continuity

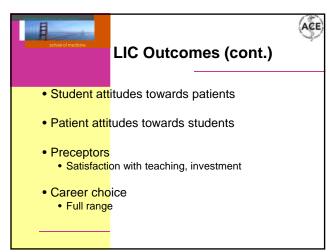


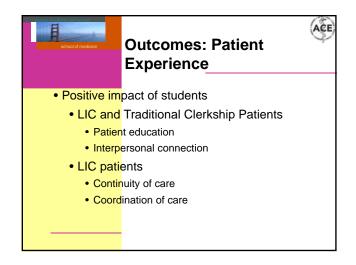
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday Sunda
Surgery Rounds 7-8am		nave a patient i	n their cohort or v		ving after a surg	gical procedure, they wil
Medicine Rounds 8-9am	If student	If students have a patient in their cohort or who they are following who is in the hospital, they will round with the team/chief resident in the morning.				
AM Clinic 9 - 12	Internal Medicine	OB/GYN	Surgery Clinic	Neurology	Pediatrics	One weekend day per month, students will take call with
PM	Self	PISCES	Self	Emergency	Self	Emergency
Clinic	Directed &	School	Directed & Cohort	Department	Directed & Cohort	Department, Pediatric ER/Urgent Care or
1-5	Cohort Learning		Learning		Learning	discipline specific cal 8 hours.
Evening/				ke call in the eveni		
Night 6p - 7a	Emergency	Department, F	4 hours.	it care of discipini	e specific can	

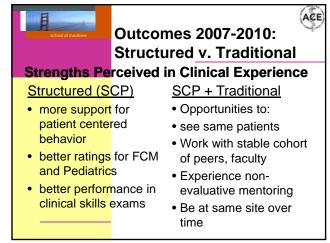




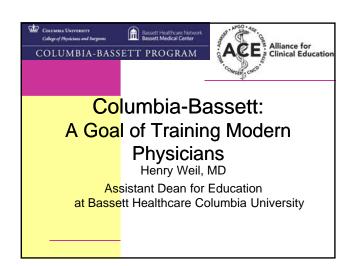








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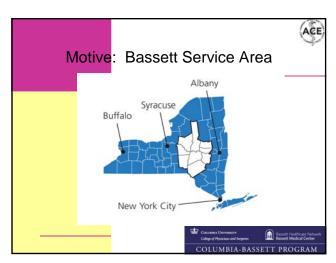


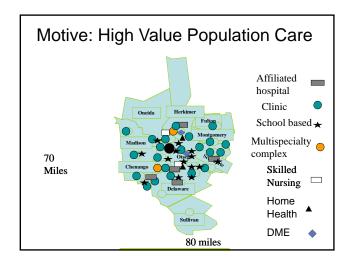
#### Background: A blank slate...

- Bassett Healthcare Network had Columbia students rotating since 1932, and various residencies
- The track campus idea gave us the opportunity to think about a 2.5 year experience
- How would our strengths be put to best use in terms of societal needs?

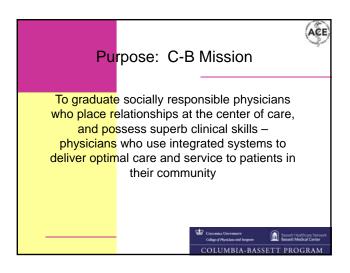


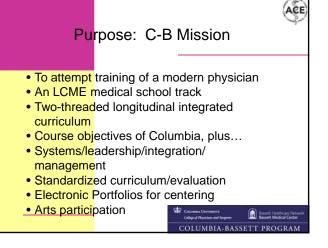




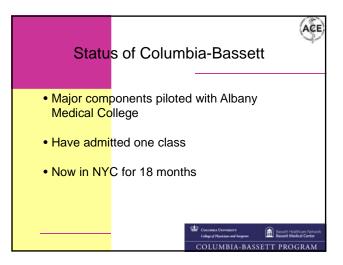


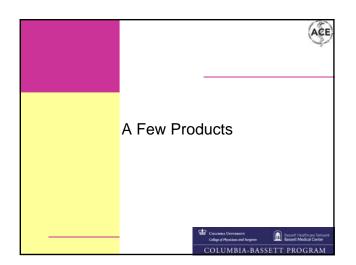


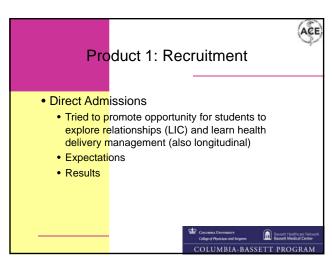


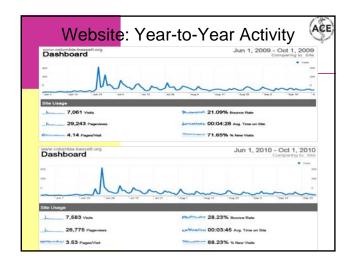


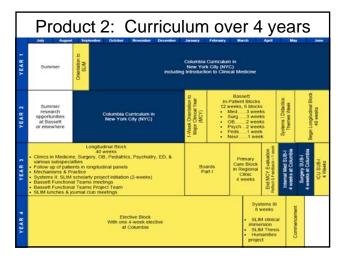


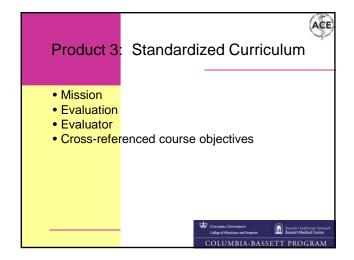


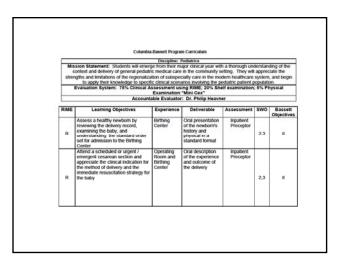


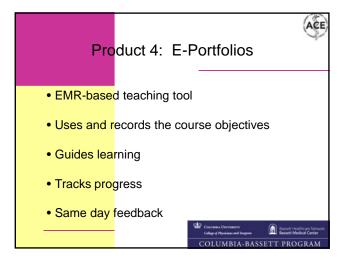


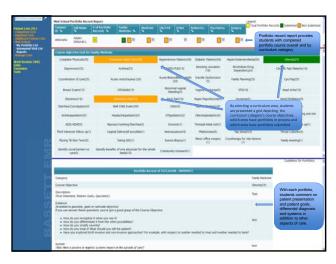




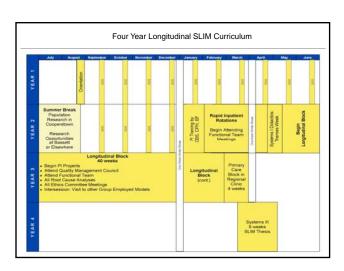












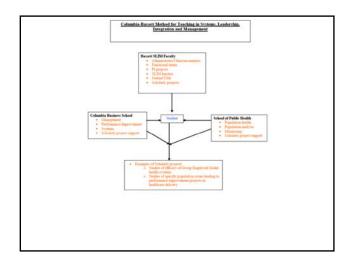


Table 1 SLIM Competencies, Activities and Assessment						
RIME Designation	Competency	Activity	Assessment			
R	To understand the structure of current healthcare systems	Columbia Business School and Public Health School Didactics	None			
1	To recognize the forces shaping the current	Conversations with Major stakeholders	None			
М	To develop and manage standardized processes of care aimed at improving the health of individuals and populations	Functional Team projects Population research projects Business/Public Health didactics	Functional Team preceptor Project team 360* review Research practicum and thesis			
ME	To use problem solving methods to continuously improve clinical, operational and financial performance in a healthcare micro system	Functional Team projects Population research projects Group discussions in PI Business/Public Health didactics	PI practicum 360° evaluation of listed activities			
ME	To motivate and empower patients to be actively engaged as partners in using the health care system to maintain and to improve their own health	Clinic activities with longitudinal patients Business school lectures Business/Public Health didactics	Evaluations by patients			
ME	To work effectively in integrated, team-based healthcare systems	Clinic-based rotations Functional Team membership	360* evaluation by teams 360* Functional Team evaluations			
ME	To be critical users of evidence- based healthcare information	EBM conference Clinic-based rotations	EBM conference presentation and participation Clinic portfolios Clinic preceptor evaluations Evaluations by patients			





