

MMC-TUSM

Medical School Program: Three Years of Innovation

Peter W Bates, MD

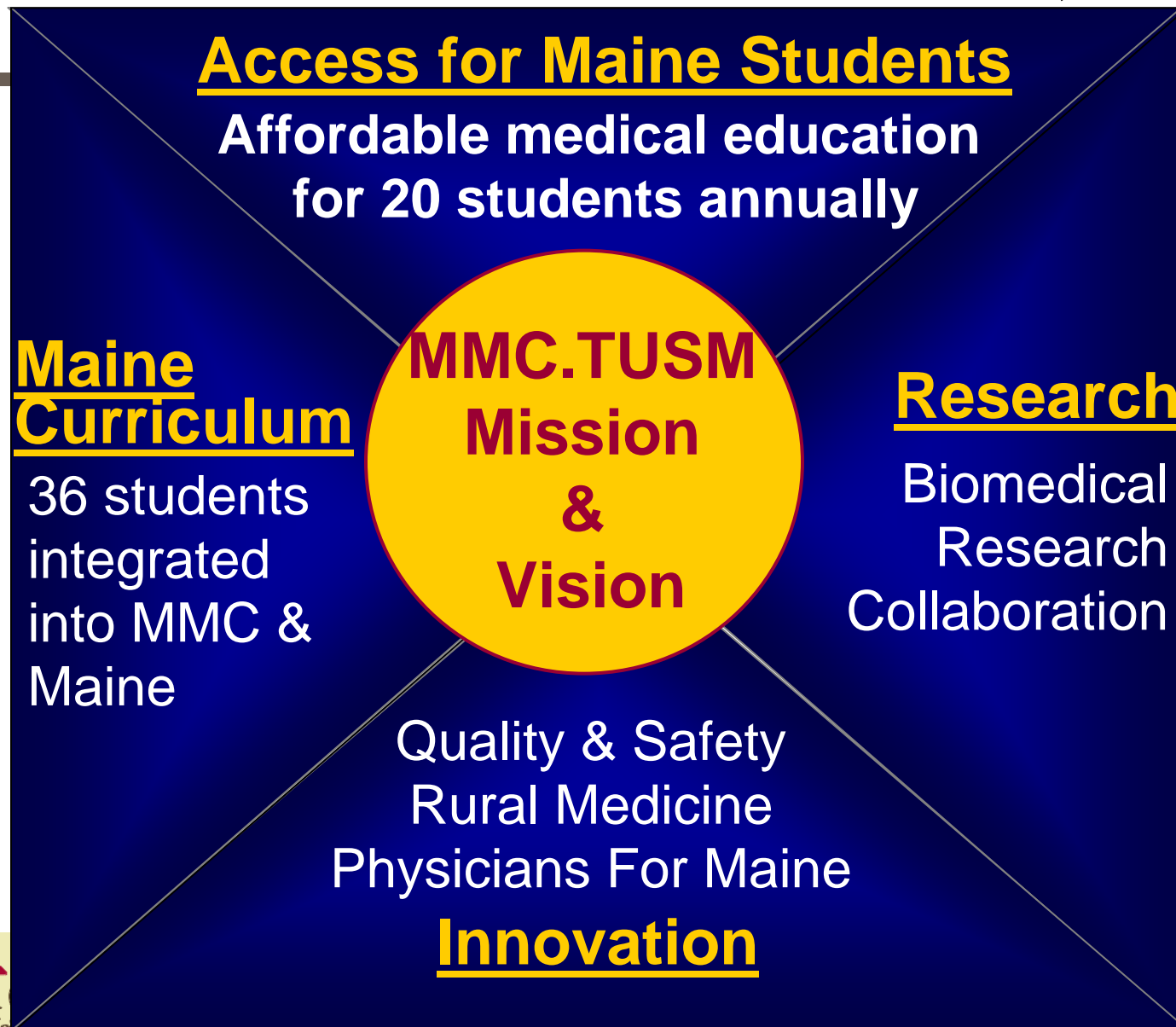
Maine Medical Association

September 10, 2011



Sinclair, Me
T17 R4

MMC-TUSM Performance Objectives



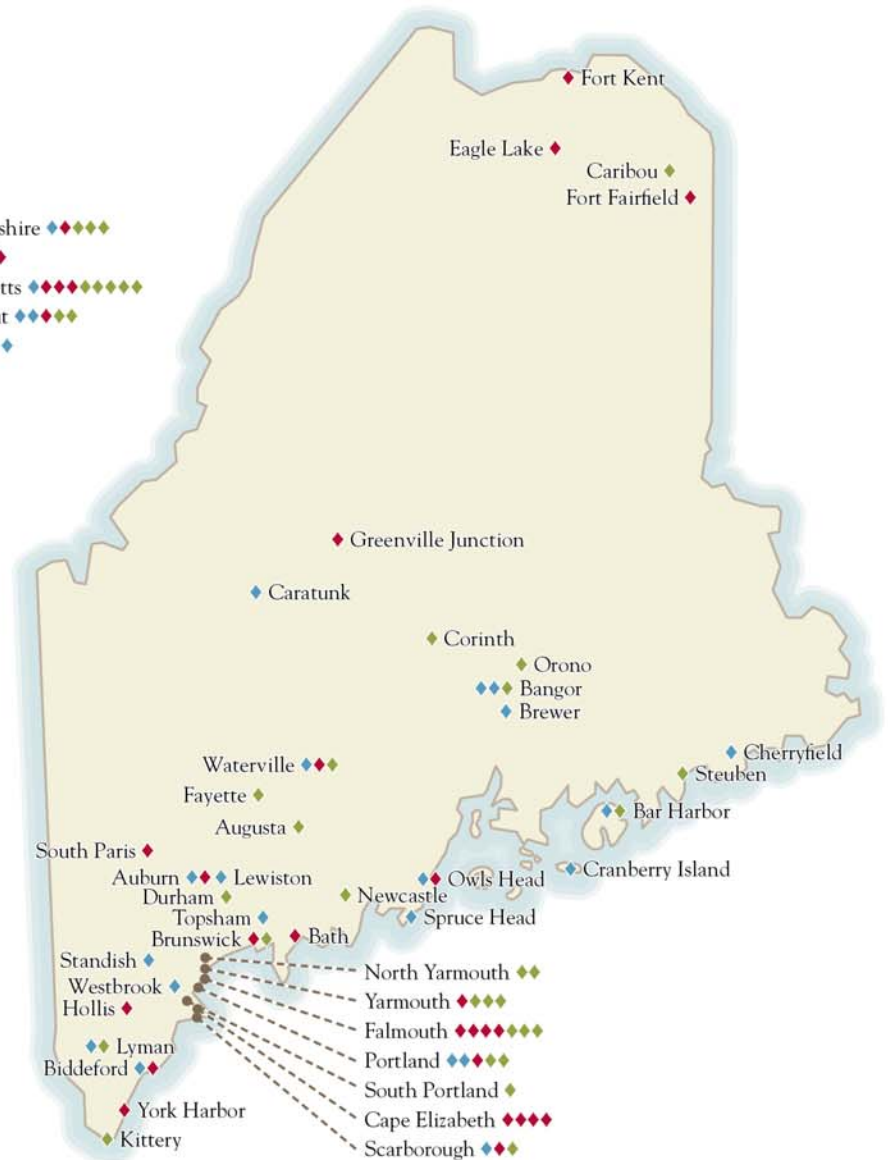
Milestones

- February 2008: MMC-TUSM partnership begins, MOU signed
- May 2008: Faculty appointment process begins
- June 2008: Admissions/Curriculum subcommittees formed
Mini-medical school pipeline program initiated
- September 2008: MMC commits to funding 20 scholarships in first class
- October 2008: TUSM requests increase in class size, LCME consultation
- April 2009: Stephen's Memorial Hospital joins as first community LIC site
- June 2009: Doctors for Maine's Future scholarships bill passed
- July 2009: MMC Medical Staff endows a full scholarship
- August 2009: First class (M2013) begins Maine orientation
- April 2010: SFSBM block and CAP offered in Maine
- June 2010: MPH curriculum launched for dual degree students
- August 2010: Second class (M2014) enters
HRSA grant supporting community-based education awarded
- October 2010: Medical Education/Simulation Center opened at Brighton Campus
- December 2010: Joint MMC (MMCRI)-TUSM research symposium held
- May 2011: M2013 class begins clinical clerkships in Maine

Applications and Admissions Data

Year	Applications / Interviews					Offers/Admitted			Applicant Metrics	
	Total	Percent Female	Maine Residents	Interviews Offered	Interviews Completed	Total Offers	Matriculated Students	Maine Residents Matriculated	Mean MCAT	Mean GPA
Class of 2013 (Enter 2009)	123	54%	26	115	108	61	31 + 2	22	31	3.04
Class of 2014 (Enter 2010)	202	50%	58	148	148	80	31 + 2	24	31	3.58
Class of 2015 (Enter 2011)	221	52%	74	165	162	60	36	26	31	3.49

◆ Class of 2013 ◆ Class of 2014 ◆ Class of 2015



USA

- California ◆◆
- Connecticut ◆◆◆◆◆
- Illinois ◆
- Maryland ◆◆
- Massachusetts ◆◆◆◆◆◆◆◆◆
- New Hampshire ◆◆◆◆◆
- North Dakota ◆
- Vermont ◆◆
- Washington ◆
- Vermont ◆◆
- Washington ◆

MAINE

- | | | |
|----------------------|-----------------------|------------------|
| Auburn ◆ | Durham ◆ | Owls Head ◆◆ |
| Augusta ◆ | Eagle Lake ◆ | Orono ◆ |
| Bangor ◆◆◆ | Falmouth ◆◆◆◆◆◆◆ | Portland ◆◆◆◆◆ |
| Bar Harbor ◆◆ | Fayette ◆ | Scarborough ◆◆◆ |
| Bath ◆ | Fort Fairfield ◆ | South Paris ◆ |
| Biddeford ◆◆ | Fort Kent ◆ | South Portland ◆ |
| Brewer ◆ | Greenville Junction ◆ | Spruce Head ◆ |
| Brunswick ◆◆ | Hollis ◆ | Standish ◆ |
| Cape Elizabeth ◆◆◆◆◆ | Kittery ◆ | Steuben ◆ |
| Caribou ◆ | Lewiston ◆ | Topsham ◆ |
| Caratunk ◆ | Lyman ◆◆ | Waterville ◆◆◆ |
| Cherryfield ◆ | Millinocket ◆ | Westbrook ◆ |
| Corinth ◆ | Newcastle ◆ | Yarmouth ◆◆◆◆◆ |
| Cranberry Island ◆ | North Yarmouth ◆◆ | York Harbor ◆ |



A young man goes to Madison, Maine....

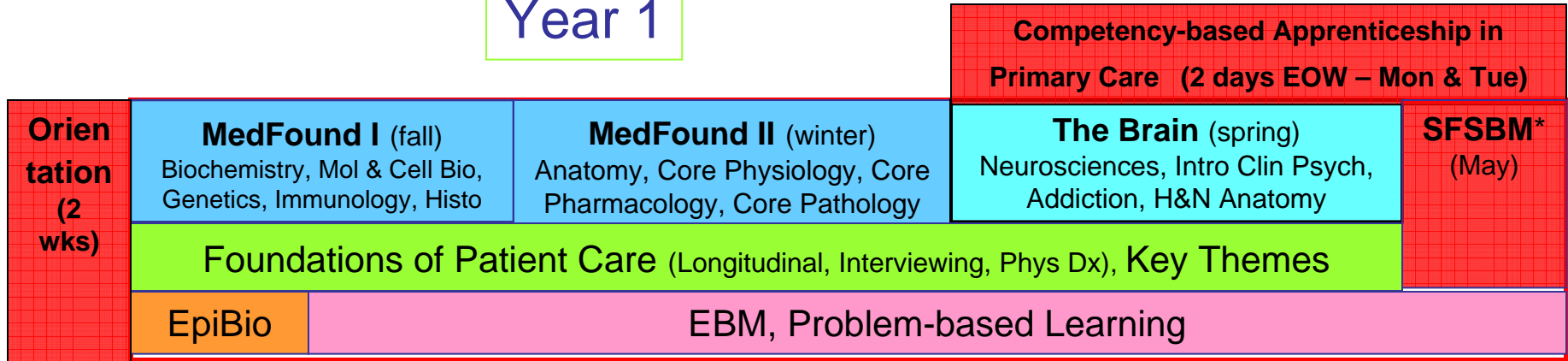
- JS grew up in Baltimore, MD. His grandparents have a small cottage in Southwest Harbor, ME. Graduated from the University of Michigan with a degree in Health and Social Theory. Extremely interested in public health outreach programs. Traveled throughout the United States as a Research Assistant for NHANES.*
- During Orientation for the Maine Track in August, 2010, he spends three days with a physician couple, at their home in rural Madison, ME, where they practice in the surrounding towns. The minute he comes back, he enthusiastically states “I know what kind of doctor I want to be...just like them”*

CAP Preceptor Enthusiasm

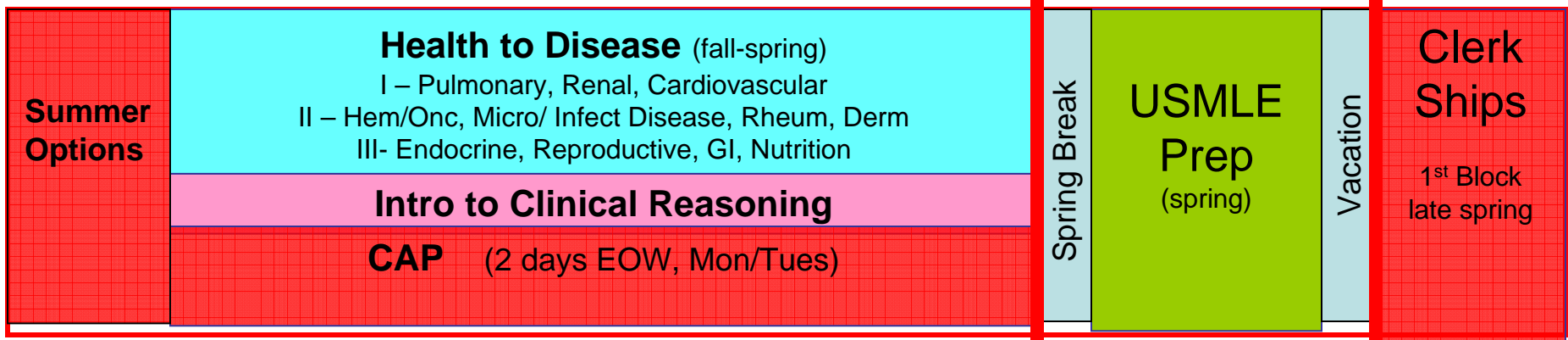
- *MS is again off to an excellent start. She is thorough, hard working and professional. She has an excellent rapport with patients. We are working on patient presentation skills and refining physical exam skills. We are just starting basic assessment. She is doing well.*
- *I am thoroughly enjoying the Tufts-MMC preceptorship program. My office also is very enthusiastic about this project.*
- *Best wishes, Dr. A.*

MMC.TUSM Schematic

Year 1



Year 2



Year 3

MMC.TUSM Schematic

May

Year 3

June

Clerkship Year [Rural Integrated Clerkship option]

Integrate Basic Science

Integrate Key Themes

July

Year 4

May

Subl's, Neuro, Basic Sci/Transl Med, Teaching Require, Elect's

Integrate Basic Science

Integrate Key Themes

Longitudinal Integrated Clerkship

- Old model [past 100 years - Flexner]
 - Shorter length-of-stay
 - Outpatient medicine
 - Diagnoses are made out of hospital
 - Fragmented learning
 - Depends on what comes in the door

Longitudinal Integrated Clerkship [LIC]

- New model [Carnegie report, June 2010]
 - Student and patient-centered
 - Integrate with future competencies
 - Strengthen learner-teacher relationship
- MMC-TUSM LIC
 - Develop personalized panel of patients
 - Follow patients to their health care activities
 - Cover all clerkship disciplines, with close faculty guidance
 - Track competencies over time

LIC Schedule

Megan McBrady

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
7-8 AM	Inpatient Rounds	Inpatient Rounds	Inpatient Rounds	Inpatient Rounds	Inpatient Rounds	ED Shift (4th Saturday of each month)	Day off
Travel Time							
Morning	Self-Directed Learning	Surgery	Pediatrics	Internal Medicine	Psychiatry		
Travel Time							
Afternoon	Family Medicine	Integrative Session	Self-Directed Learning	OB/GYN	Self-Directed Learning		

Student LIC Experiences

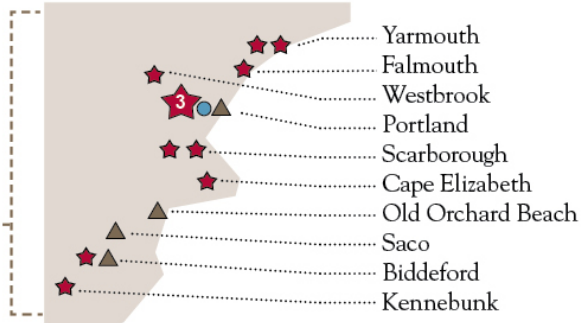
- “This is a lovely 30-year-old pregnant woman with Protein S deficiency.” Where it goes from there depends on the audience. For the neurologist, it was “who presents at seven weeks pregnant with a lifetime of HA with visual S.” For the MFM doctor, it was “an otherwise uncomplicated pregnancy, being anticoagulated on daily lovenox.” For the ED doctor, it was “who presents at 16 weeks pregnant with two episodes of postcoital spotting.” For the OB it was “presenting at term for induction of labor because of oligohydramnios” For the postpartum team, it was “whose baby girl was born by uncomplicated vaginal delivery.” Ultimately, I saw Ms. P with six different providers in six different settings and was inspired to learn and relearn information about migraines, prothrombotic disorders, abnormal uterine bleeding, and normal labor and delivery. The first baby I ever delivered belonged to a family I had known for nine months.
- *-Student CC, from the first year of the Harvard Medical School-Cambridge Integrated Clerkship, now a resident in obstetrics–gynecology*

Teaching Sites

- LIC Sites
- Orientation Sites
- ★ CAP Sites
- ▲ Maine Practice Network



- Bangor ★★
- Bar Harbor ●▲
- Bath ●★▲
- Belfast □★▲
- Belgrade Lakes □★
- Biddeford ★▲
- Bridgton ▲
- Brunswick ★★▲
- Cape Elizabeth ★
- Caribou □
- Damariscotta ●□★▲
- Eagle Lake □
- Ellsworth □▲
- Falmouth ★
- Farmington ●★★▲
- Fort Kent ▲
- Gouldsboro □
- Greenville □
- Harrington □
- Houlton □▲
- Kennebunk ★
- Lewiston ●★▲
- Lincoln □
- Madawaska □
- Madison □
- Madison/Rangely ★
- Newcastle □★
- Norway ●□★▲
- Old Orchard Beach ▲
- Old Town □
- Portland ●★★★★▲
- Rockport □★▲
- Rumford □
- Saco ▲
- Sacopee Valley ★
- Sanford □★
- Scarborough ★★
- Skowhegan ●□★▲
- Stonington □
- Van Buren □
- Wells ▲
- Westbrook ★
- Yarmouth ★★



LIC Sites

- Stephens Memorial Hospital
- Franklin Memorial Hospital
- St. Mary's Regional Medical Center
- Mid Coast Hospital
- Lincoln County Healthcare (2012)
- Redington-Fairview Hospital (2012)
- Pending: MDI Hospital, Pen Bay MC



Over \$12M Scholarship Support

- MMC Board of Trustees
- Doctors For Maine's Future (State of Maine)
- Philanthropy

- Libra Foundation
- Bank of America
- Bingham Foundation
- Davis Foundation
- Unum Foundation
- Sewall Foundation
- Welch Foundation
- Quesada Foundation
- Betterment Fund
- Coca-Cola Foundation
- KeyBank

- **MMC Medical Staff**
- **Maine Surgical Care Group**
- **Spectrum Medical Group**
- **Bing-You Fund**
- **Richard/Rakia Hatch Fund**
- **Selma Pluznick Fund**
- **Saunders Fund**
- **Scott Fund**
- **Lepore Fund**
- OA Centers for Orthopedics
- Martin's Point Health Care
- MMC Department of Medicine
- Plastic & Hand Surgical Associates