

# Tufts' curriculum reform and implications for medical education

University of Tokyo School of Medicine October 14, 2014

> Mary Y. Lee, MD, MS, FACP Project Professor, 2014-2015 IRCME, Graduate School of Medicine University of Tokyo, Japan

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# Where are you in the process of curriculum reform?

- Thinking about change
- Preparing for change
- Managing change
- Reinforcing change

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# Please go to: pollev.com/leetufts

or

www.polleverywhere.com/l eetufts

on your smart phone or iPad

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#### **Aims**

- 1. Exchange ideas on health sciences education
- 2. Contribute to conversation on curriculum change
- 3. Identify drivers of and barriers to major change
- 4. Describe the what and how of an integrated medical curriculum
- 5. Consider next steps for your institution

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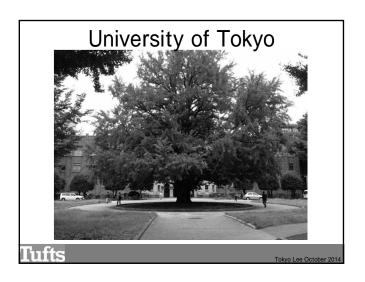
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#### Agenda

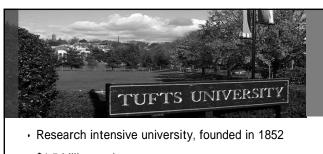
- · Brief introduction to Tufts University
- · What were major drivers of change at Tufts
- · Highlights of Tufts integrated curriculum
- · Barriers and solutions for change
- · Consider your possible next step

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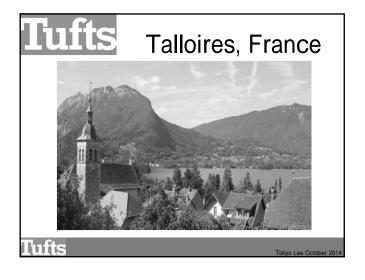


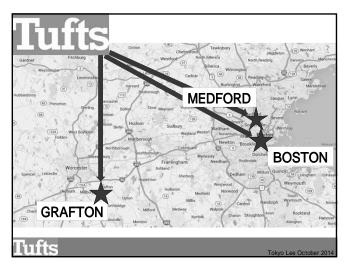


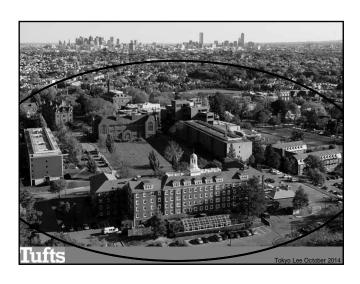


- \$1.5 billion endowment
- · 10,500 students, 1200 international
- · 8 major schools, 4 campuses

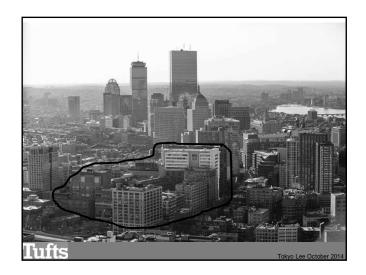
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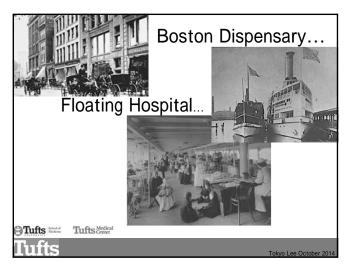








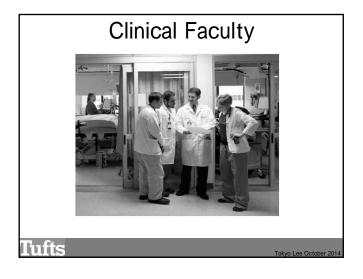


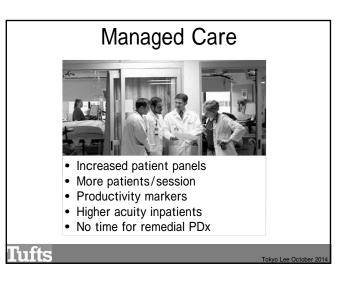


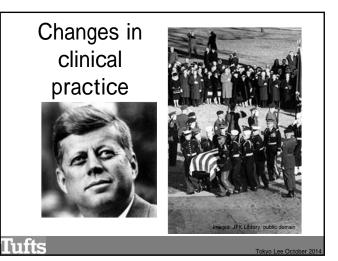


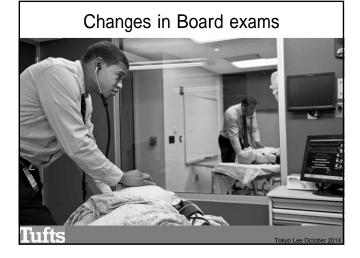
What do you think was the major driver of curriculum change at Tufts?

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# Changes to USMLE Step 3\*

Expanded range of competency-based content:

- Foundational science essential for effective healthcare
- · Biostatistics, epidemiology, population health
- · Literature interpretation
- · Medical ethics
- · Patient safety

\*Beginning November 3, 2014

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## Changes in student expectations

- · Multiple learning methods
- · Flexibility in time allocation
- · Meaningful faculty contact
- · Early clinical exposure
- · Peer learning
- · Learning spaces



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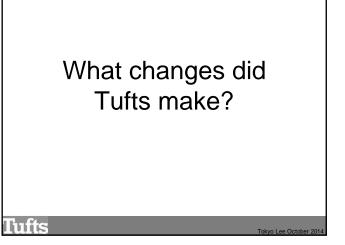
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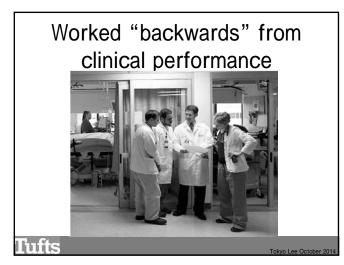
# Changes in delivery Shuledu About SNHU Degrees Transfer Gredits Online Learning REFERENCE INFORMATION 1877.606.4205 What degree would you like? Please select an option What would you like to study? Please select an area of study first What program are you interested in? Please select an area of study first Continue > See Yourself Succeed. Tokyo Lee October 2014

# What s driving change in Japan?

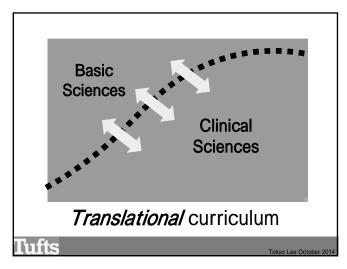
- 1. Clinical practice/patient care changes
- 2. External Drivers: accreditation, competition
- 3. Curriculum/information overload
- 4. Student expectations
- 5. Changes in delivery, technology
- 6. Other

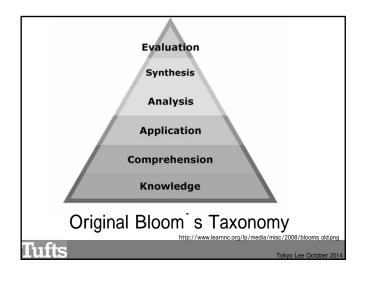
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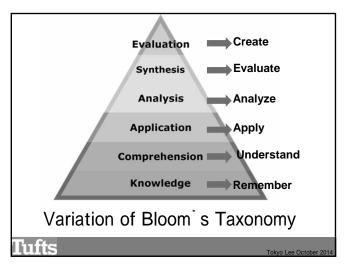


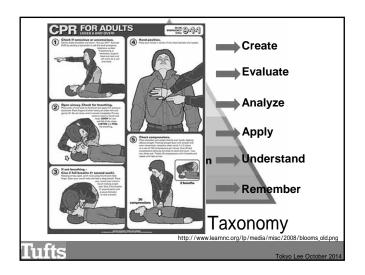


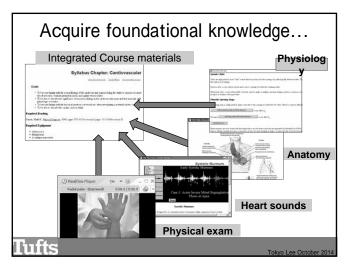


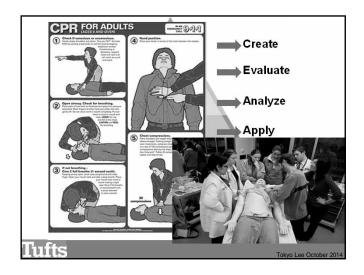


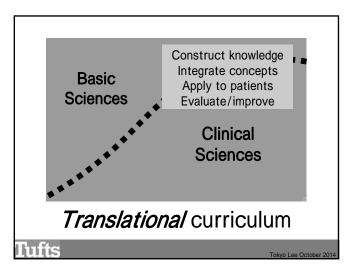


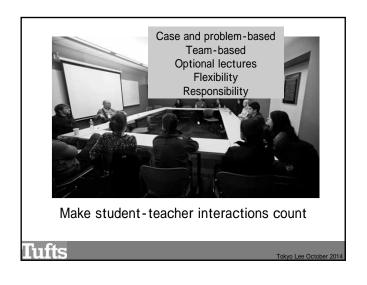




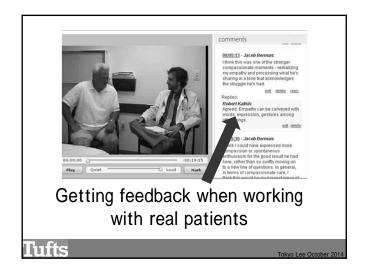


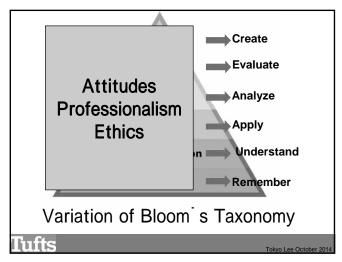






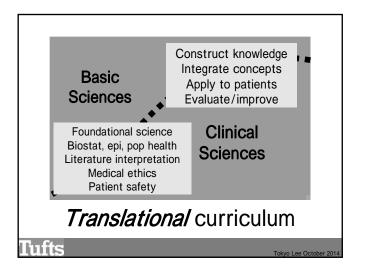


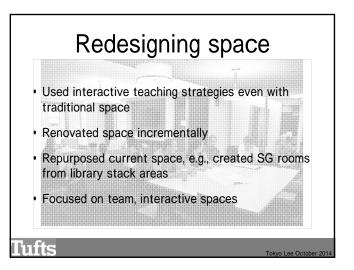














Questions about Tufts' overall curriculum design?

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# Translational curriculum +/ Small Groups

- · Build/integrate content across all 4 years
- · Increase student responsibility, eg, no lectures
- · Stress understanding concepts and principles
- · Require active problem solving, application
- · Use faculty for difficult concepts, problem solving
- · Evaluate and analyze progress to spur improvements

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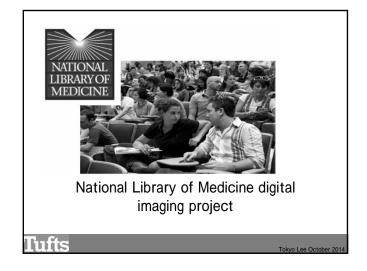
What was most relevant from your small group discussion?

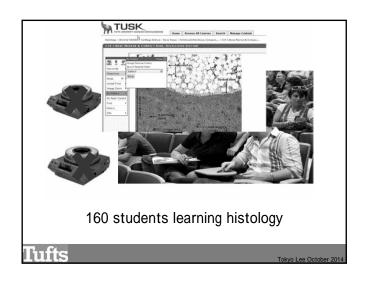
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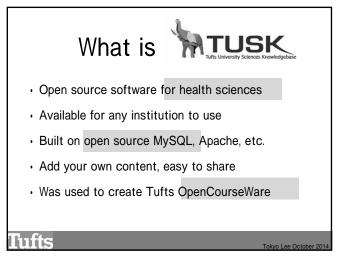
What technology enabled Tufts to support major change?

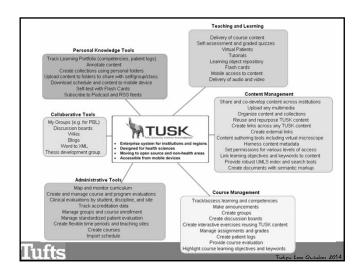
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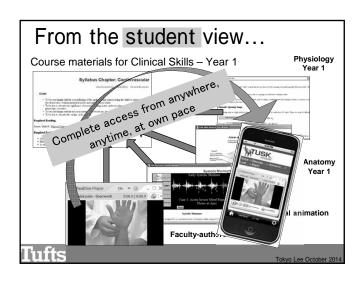


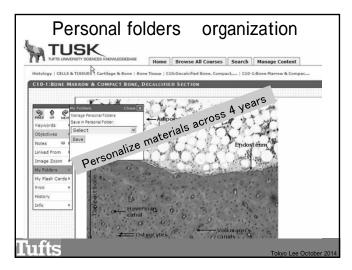


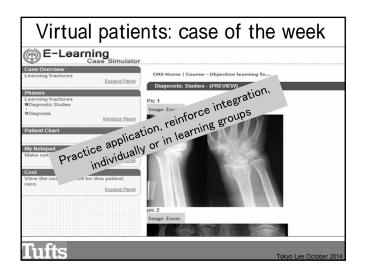


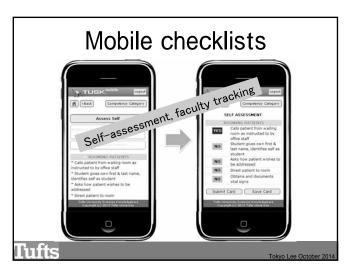


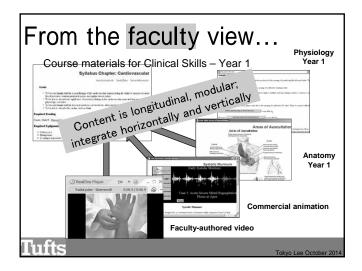




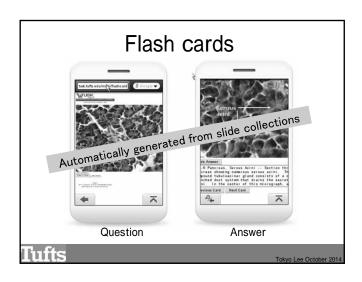


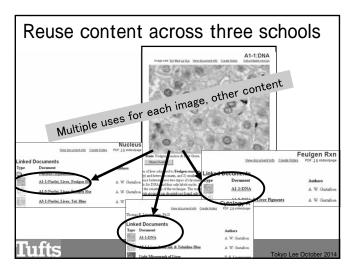


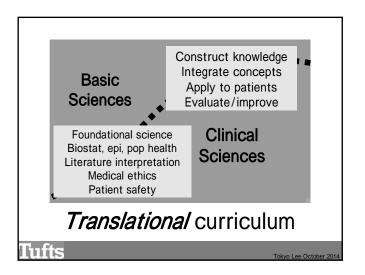










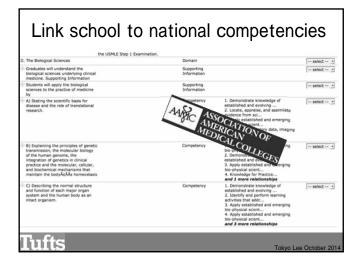


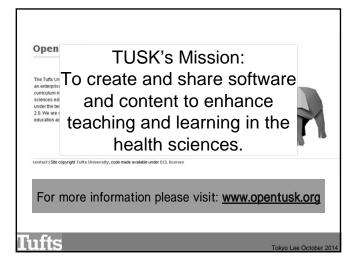
## Assessing online

- · Flexible question formats, multimedia
- · Timed or not (e.g., prior to a lecture or lab)
- · Feedback options
- · Links to content, video performance, checklists
- · Quiz item analysis

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Questions about TUSK

#### **Barriers**

- 1. Lack of leadership support
- 2. Lack of funding
- 3. Faculty resistance
- 4. Student resistance
- 5. Inappropriate space
- 6. Inadequate technology, software, trainers

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What do you see as the major barriers for curricular change and integration of technology?

**Small Groups** 

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# Let s look at some possible solutions

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## Incentives for leadership

- 1. Align with school/university strategic plan
- 2. Support clinical care, GME, e.g., QOC
- 3. Further departmental goals for research
- 4. Leverage faculty time
- 5. Meet/exceed accreditation requirements

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## Ways to fund

- 1. Align with components of strategic plan
- 2. Create an intramural grant program
- 3. Leverage intramural for extramural grants
- 4. Enhance existing projects
- 5. Design incremental projects >> Pilots!

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### Addressing faculty resistance

- Keep ultimate goals (for faculty and students) in mind
- 2. Help faculty solve their problems
- 3. Find key champions and early adopters
- 4. Win over key naysayers
- 5. Need trainers who work well with faculty

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## Addressing student resistance

- 1. Use program assessment and focus groups
- 2. Engage students in design/implementation
- 3. Update students on plans and progress
- 4. Be clear and reasonable about expectations
- 5. Provide flexible, effective teaching methods

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### IT resources

- 1. Standards are always evolving
- 2. Decide what is central vs. local
- 3. Choose open source vs. proprietary
- 4. Criteria for staffing
- 5. Technology tools, hardware, software, labs

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Engage students, faculty and staff in all phases of curriculum reform

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What s your next step?

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