Assessment Part I

Student Assessment: Are students learning what we think we are teaching?

University of Tokyo November 28, 2014

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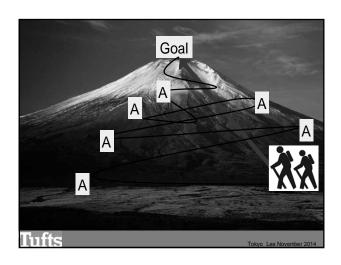
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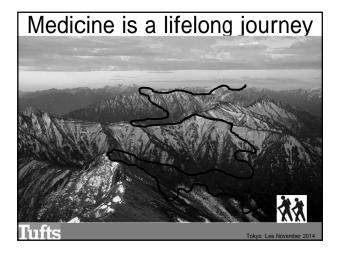
Aims

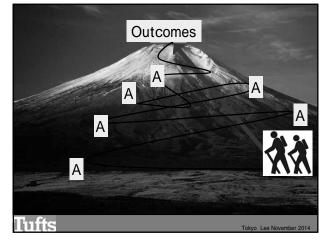
- 1. Exchange ideas on health sciences education
- 2. Focus on student assessment of "soft skills"
- 3. Describe some assessment purposes and methods
- 4. Provide "hands-on" assessment activities
- 5. Consider next steps for your course/program

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Outcomes = Mission

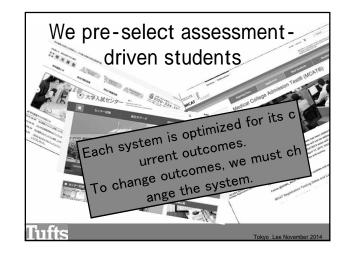
 The "outcomes" of your curriculum must support your "mission"

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What is the mission of your Faculty of Medicine? Research? Clinical? Both?

Start with the students Whom do we pick?





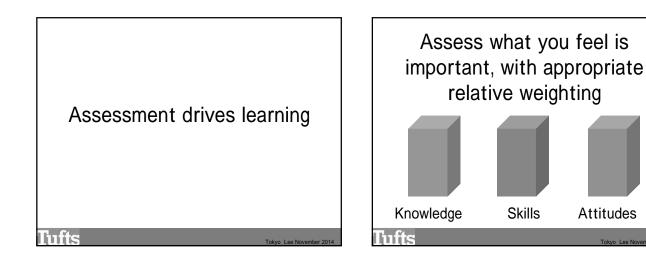
Selection techniques

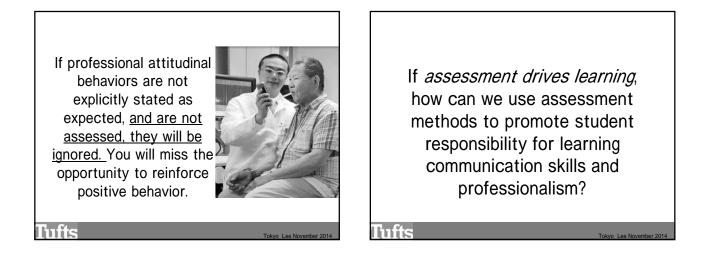
Test scores are insufficient predictors of future performance

- Multiple Mini Interviews: Eva, et al, McMaster University, 2001
- Structured, behavioral-based interviews: "Tell me about a time when you needed to stand up for your beliefs..."
- · Admission OSCEs for behaviors, problem solving
- Group interviews
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Types of Assessment

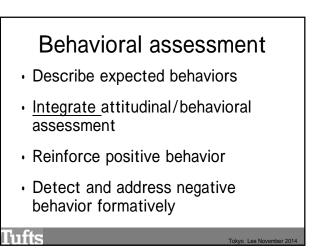
Summative

Assessment of learning

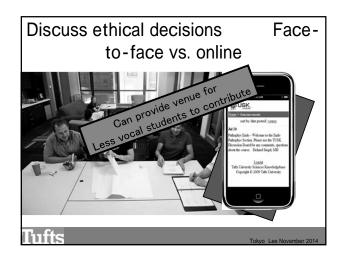
Formative

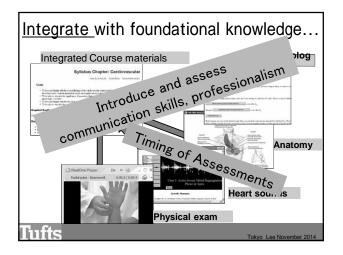
Assessment for learning

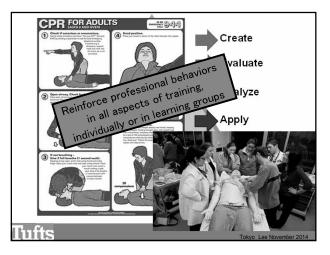
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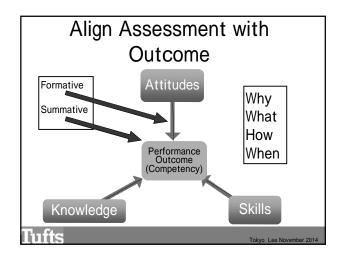


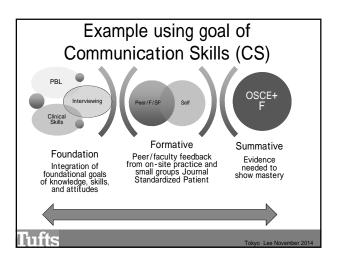
Addressing difficult topics Use audience response systems to assess overall student attitudes about difficult ethical issues that can be followed up in small group discussions

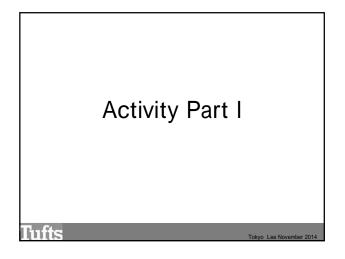


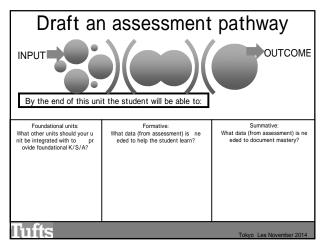












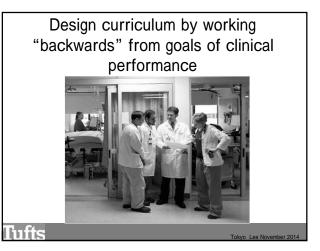
If assessment drives learning.

Whether summative or formative:

- · Why, what, how, when are you assessing?
- · Does it match your objectives, with weighting based on importance?
- · Does it help students fulfill the objectives?
- · Is it instructional (support learning, ID deficiencies)?
- Is it motivational instill lifelong desire and ability to climb mountains?
- · Are you reinforcing/building on other parts of the curriculum?

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Formative

Assessment for learning:

- · Throughout a course or project
- Aid learning by identifying strengths and gaps/misconceptions
- · Guide student s path to mastery
- · Self-assessment vs. peer or faculty
- · Guide real-time course revisions

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Link between assessment and feedback

· Assessment of learning

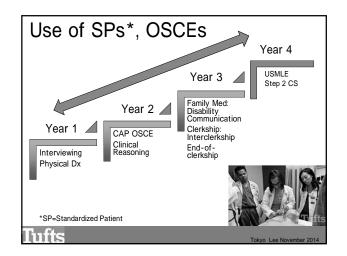
Measure what learning has occurred at a point in time

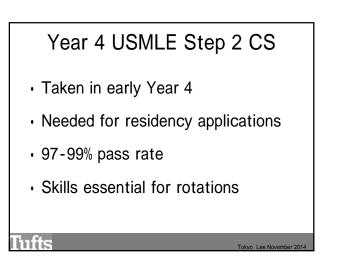
· Feedback for learning

Provide information to gain mastery

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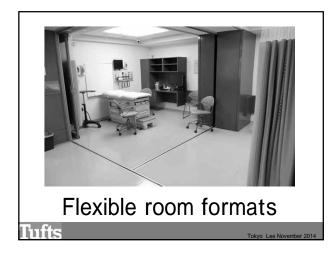
OSCEs are only one mode. Must use OSCEs with other modes for assessment of complex clinical skills and for different learners

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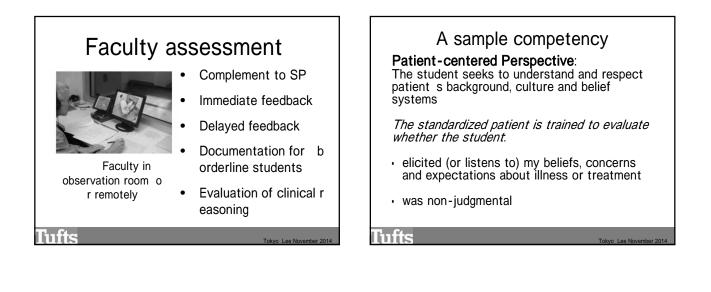
Complementary assessment Formal/informal, immediate/delayed • Faculty to student/group/team • Peer to peer, resident to student • Self-assessment, student-initiated • Writing assignments, journal • Discussion (online or in person)











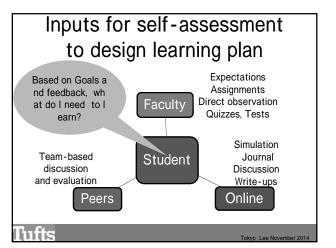


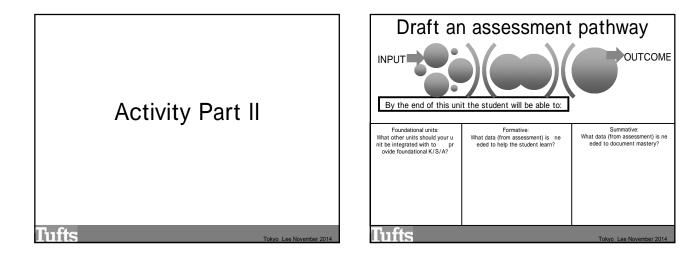
Clinical evaluation

- Halo/horn effect
- Restriction of range
- · All above average
- Rating nonperformance attributes
- · Identifying competencies inaccurately
- · Mitigated with multiple evaluations

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Students need to know on what and how they will be assessed, assessment *for* learning





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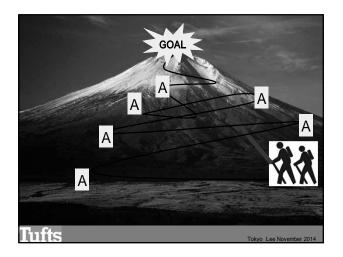
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How might you change your assessment methods to increase student responsibility and to clarify your goals and learning expectations of the student?

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What are possible i steps for your cours program?	
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Did we meet our aims?

- 1. Exchange ideas on health sciences education
- 2. Focus on student assessment of "soft skills"
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Additional information

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Year One Interviewing
Program runs August through November

- Formative SP: entire afternoon, groups of 5 students
 - Interview 2 SPs, Observe 3
 - ✤ Feedback from peers, faculty, SP
 - Regular small groups, weekly patient interviews, journals
- Summative: 2 stations (20 min each), checklist grading by SP, with Director tape review for borderline students

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Year One Physical Diagnosis November to April, coordinated with Anatomy Weekly lectures, quizzes, peer practice Formative: two 2-hour SP practice sessions (midway and near end)

- Summative: 10 focused direct observations by faculty/residents during course, plus final SP
 - ♦ 5-7pm, M-Thu, 25% class/night, 8-15 faculty/residents
 - ♦ 20-min station, SP checklist, Director review

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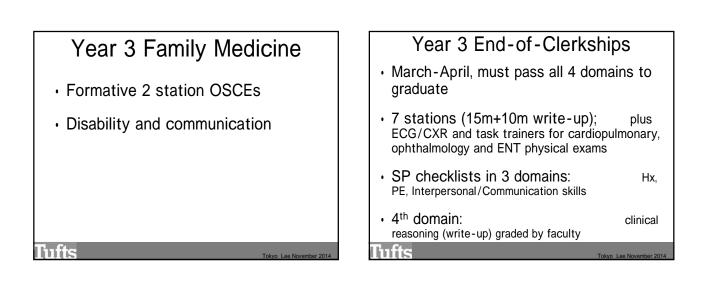
Competency-based Apprenticeship in Primary Care

- · April Year1 to March Year2
- Formative: weekly preceptor; 1 OSCE during Jan-Feb for Hx, PE, communication, clinical reasoning
- Summative: 20 min OSCE of Hx, PE, Communication; checklist by SP, Director review; write-up of H&P, DDx (with rationale), Dxtic evaluation (with rationale), graded by course directors and dean for education

Year 3 Clinical Skills Interclerkship

- Mid-third year formative OSCEs
- · Focuses on communication skills
- Groups of 5, interview and examine 2 patients, observe 3

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Year 3 End-of-Clerkships cont d

- Students use iPads for write-ups
- 18 students/day, 9-10 full days
- 30-35 faculty watch ~8 encounters/session, 2-3 per student
- Maine has its own OSCEs with 10 faculty

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¥3,500,000/year for faculty director, lump sum
 *Does not include equipment replacement, facilities operation, other IT

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Summative assessment

Assessment of learning:

- · At end of course or project
- · Based on weighted objectives
- · Used to assign a grade, promotion status
- · Often scaled to differentiate students
- · Guides course revision for next cycle

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Summative assessment

· Is it norm-based?

Assessment has a *relative standard* within the cohort being assessed (e.g., student s performance is compared relative to others)

· Is it criterion-based?

Assessment has an *absolute standard* without reference to the cohort (e.g., student s performance meets/doesn t meet a competency-based assessment)

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