

# Agenda Give brief overview of program Discuss design of assessment system Describe program outcomes Provide lessons learned

# Cleveland Clinic Lerner College of Medicine (CCLCM) of CWRU

Established in 2002

Prepare physician-investigators

Curriculum

- Organ-based courses
- Early clinical experiences
- Longitudinal research curriculum
- Portfolio-based Assessment System

No grades, class ranks, or AOA

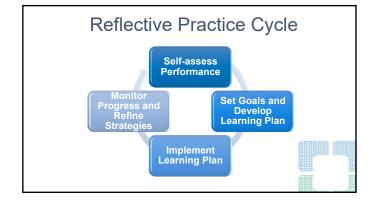


Fishleder et al. (2007). Acad Med. 82;390-96

# **Overarching Goal**

Prepare <u>reflective</u> <u>practitioners</u> of medicine and science whose drive for lifelong learning is complemented by a critical approach to selfassessment and selfimprovement.







# **Initial Strategies**

- · Visionary leadership
- · Catalyst foundation grant
- · Faculty retreats
  - What was assessment like for you?
  - When did you become a self-directed learner?
- Consultants
- · Central oversight





# **Assessment Principles**

- · Should enhance learning
- Remain progressive and cumulative
- Occur in authentic, experiential settings
- · Feature self-assessment cycles and advising
- · Focus on competencies no grades/ranks
- · Facilitate partnerships



Dannefer EF, Henson LC. (2007). Acad Med, 82(5), 493-502.

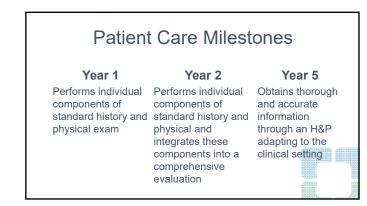
# Assessment for Learning Frequent formative feedback Clear performance expectations Opportunities to address performance gaps Collaborative dialogue Supportive learning environments

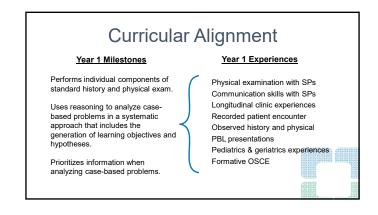
Nicol DJ, Macfarlane-Dick D. (2006). Studies in Higher Education, 31(2), 199-218.

#### CCLCM's Competencies Professionalism Interpersonal and Communication Skills Patient Care Knowledge for Practice Teamwork & Interprofessional Collaboration Systems Based Practice Research & Scholarship

Professional & Personal Development Reflective Practice







# Assessment Evidence

#### College Provided

- Concept appraisals
- Self-assessment questions
- Narrative faculty feedback
- Narrative peer feedback
- OSCEs (formative)
- Clinical Skills Exam
- Self-assessments

#### Other Sources

- Licensure exams
- NBME exams (optional)
- Research products
- Graduate course work
- Other work products
  - Unique evidence

### What is a Portfolio?

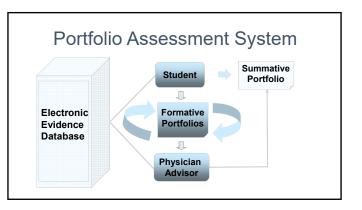
"A **purposeful collection** of student work that tells the story of the student's efforts, progress, or achievement in (a) given area(s). This collection must include **student participation** in selection of portfolio content; the guidelines for selection; the criteria for judging merit; and evidence of **student self-reflection**."

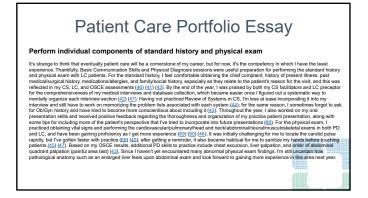
Arter & Spandel. (1992). Educational Measurement: Issues & Practice. 11(1), 36-44.

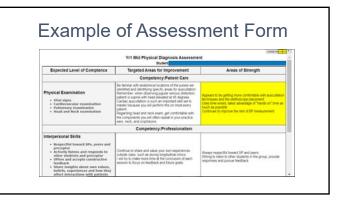
# **Benefits of Portfolios**

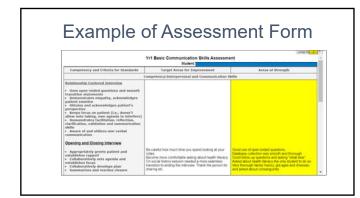
- · Captures what learners know and do
- Promotes reflective practice
- · Gives learners more responsibility
- · Provides autobiography of learner growth
- · Supports formative and summative assessment

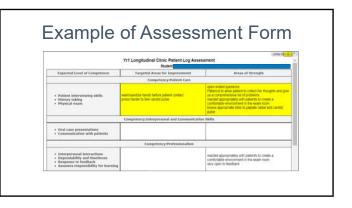












Example of Learning Plan							
Competency	Learning Goal	Plan of Action	Measureable Outcome				
Interpersonal and Communication Skills	Make presentations more interactive and engaging	Practice in PBL giving interactivity of learning objective presentations	Feedback from PBL facilitator and peers on efforts to give concise presentations that engage audience				
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"Portfolios are training wheels for reflective practice."

Renee Salas, MD, MS, MPH https://en.wikipedia.org/wiki/Renee\_Salas

#### Key Roles in Assessment System **Educator Development Role Specific** Assessors PBL facilitators, research preceptors, lab personnel, clinical PBL facilitator, longitudinal clinic facilitator, research preceptors, communication skills preceptors, etc. preceptors, essay reviewers, peers, self, etc. **Physician Advisors** Longitudinal Feedback coaches, informal performance monitoring, Physician Advisors (weekly meetings and onboarding) curriculum advising, portfolio preparation & verification Promotion Committee (monthly meetings and onboarding) **Promotion Committee** System-wide Promotion and disciplinary decisions, formal performance Essentials Series (in person and asynchronous) improvement monitoring Distinguished Educator Certificates and Fellowships Masters in Medical and Health Professions Education

# Learner Development

#### Workshops

- Introduction to Assessment System
- Providing Peer Feedback
- Creating Formative Portfolios and Learning PlansCreating Summative Portfolios

Regular Meetings with Physician Advisors

**Ongoing** communication

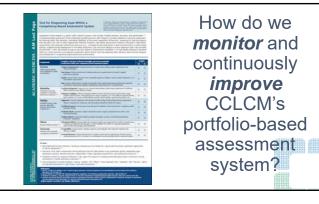
# Challenges

- Time intensive
- Onboarding new faculty to roles, feedback expectations, and culture
- · Increasing time demands on faculty
- · Updating technology regularly
- · Maintaining rather than creating



How can I **prove** CCLCM's portfoliobased assessment system "works"?





Graduates' Specialty Choices Classes of 2009-2022 (n = 433)				
Medical (n = 232, 54%)	Surgical (n = 154, 35%)	Procedural (n = 47, 11%)		
Internal Medicine (99)	Orthopedic Surgery (25)	Anesthesiology (16)		
Pediatrics (39)	General Surgery (21)	Radiology – Diagnostic (14)		
Dermatology (20)	Neurological Surgery (20)	Pathology (9)		
Neurology (20)	Otolaryngology (20)	Radiation Oncology (8)		
Emergency Medicine (18)	Obstetrics and Gynecology (19)			
Family Medicine (12)	Ophthalmology (17)			
Psychiatry (11)	Urology (15)			
Medicine – Pediatrics (5)	Thoracic Surgery (7)			
Child Neurology (4)	Vascular Surgery (4)			
Physical Medicine & Rehab (4)	Plastic Surgery (3)			
	Surgery – Preliminary (3)			

# Graduates' Match Results\* Cleveland Clinic Foundation (67) Beth Israel Deaconess Medical Center (1<br/>Yale – New Haven Medical Center (10) University of Pennsylvania Health System (19) Duke University Hospital (9) Stanford University (19) University of Michigan Hospitals & Health Massachusetts General Hospital (18) Vanderbilt University Medical Center (9)

 Brigham and Women's Hospital (15)
 New York Presbyterian Hospital - Colu

 University of Washington Medical Center (15)
 New York Presbyterian Hospital - Com

 David Geffen School of Medicine/UCLA (12)
 McGaw Medical/Northwestern Universit

 University of Pittsburgh Medical Center (12)
 University of California (Davis) (6)

 CWRU/University Hospitals Medical Center (11)
 Children's Hospital of Philadelphia (5)

 University of California (San Francisco) (11)
 University of Utah (5)

Beth Israel Deaconess Medical Center (10) Yale – New Haven Medical Center (10) Duke University Hospital (9) University of Michigan Hospitals & Health Ctrs (9) Vanderbilt University Medical Center (9) New York Presbyterian Hospital - Columbia (8) New York Presbyterian Hospital - Cornell (8) McGaw Medical/Northwestern University (6) University of California (Davis) (6) Children's Hospital of Philadelphia (5) University of Utah (5)

\* Represents programs that matched > 5 CCLCM graduates

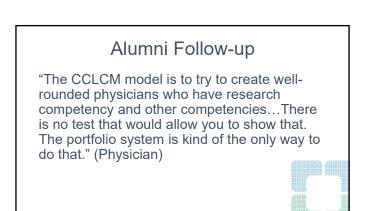
#### Faculty Perceptions 2021 (n = 402/752, Response = 53%)

Perceptions of CCLCM	Physicians n = 316	PhDs/Others n = 86	
	% Agree/Strongly Agree		
I have a sense of pride in the CCLCM program	97.8	98.8	
CCLCM enhances the overall reputation of the Cleveland Clinic	97.5	100	
I have been intellectually stimulated by my work in the CCLCM program	95.6	94.2	
My work in the CCLCM program is professionally rewarding	94.3	94.1	
My department chair values my involvement in the CCLCM program	87.0	89.5	
CCLCM's leadership appropriately recognizes faculty for their contributions to the program	83.1	89.5	
I received sufficient faculty development for my role(s)	77.2	73.3	
I used my CCLCM activities to produce scholarly work (e.g., poster, presentation, publication, etc.)	34.8	41.9	

# Institutional Impact

- Expanded educator development programs
- Added reflective essays to faculty annual performance review ("mini portfolio")
- Revised teaching evaluations to increase qualitative feedback
- Developed award for clinicians who complete assessments and provide useful feedback



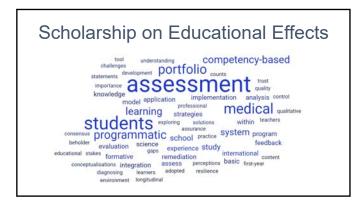


# Alumni Follow-up

"You know I think that it is a very personalized system, which involves a lot of work both on our part and on the person who has to read our portfolio...You know it makes you feel a lot more like they see you as a whole person rather than as a number." (Physician)

### Alumni Follow-up

"I think the most important one that I can recall is just the overall concept of self-learning and trying to always continuously improve upon your performance. That was something that directly carried over from [CCLCM's] assessment system over into residency." (Physician)





# Lessons Learned

- Better to be revolutionary, than evolutionary.
- View assessment as a complex system with multiple, integral components.
- Advisors are critical.
- Develop principles to obtain faculty buy-in, guide assessment system design, and inform policies.
- Create a "graduate education" during medical school to prepare learners for their careers.

# Lessons Learned

- A portfolio is not a filing cabinet. Students must have ownership to select and reflect upon assessment evidence.
- Engage frequently with stakeholders and offer reassurance and support.
- Let the vision, not available technology, dictate the features and functions of portfolios.
- Determine if goal is "assessment for learning", "assessment of learning", or combination.



I just spent 45 min speaking with you. What is something that you heard that you think could apply to your curriculum renewal process?



Every life deserves world class care.