

Pearls for a Positive Learning Climate *

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* Now with 3 learning climate pearls!



Objectives

- 1.Prioritize a positive learning climate as the foundation for learning
- 2.Use self-reflection to identify areas of learning climate improvement
- 3.Employ words and behaviors which positively impact the learning climate



Learning Climate Pearls



Show humility + memory

Address - isms and bias



Show interest in the human

First medical schools

- 1765 Medical Department of the College of Philadelphia
- 1768 Medical Department of King's College in New York
- Bachelors \rightarrow 2 years: pre-clinical, clinical
- Doctor of medicine → 3 more years, Latin thesis
- Closed 1776

- pennmedicine.org

- http://ihm.nlm.nih.gov/images/B02332



John Morgan



Samuel Bard

EDICAL DEPART Lectures Chemistry C.B.S. C.B.B.S. CHEMISTRY & PHARMACY. By John Bacon, M.O. By Hilen Piler M. S. Henderson of In Admit Mr. Hog Boutwell CeNov. 1867 Sessional 141-2 HARVAR -UNIVERSITY THEORY & PRACTICE PHYSICK. James Jackson_ Admit Mralfred & Perhins Auch Williamson 20 Octo 7030 + Samuel DARTMOUTH COLLEGE LECTURES ON THE THEORY AND PRACT Auitomy AND SURGERY, and Ob B. D. MUSSEY, M. D. RUPTURED Almit Mo Honry Park der David French for the resent season. Oct. 21, 1820

www.archives.upenn.edu/histy/features/medical_lecture_tickets/

Post-war

- 1783 Harvard Medical School – Boston
- 1797 Dartmouth Vermont
- 1799 Transylvania
 University Kentucky

1800's - Rapid change

 $7 \text{ M} \rightarrow 40 \text{ M}$

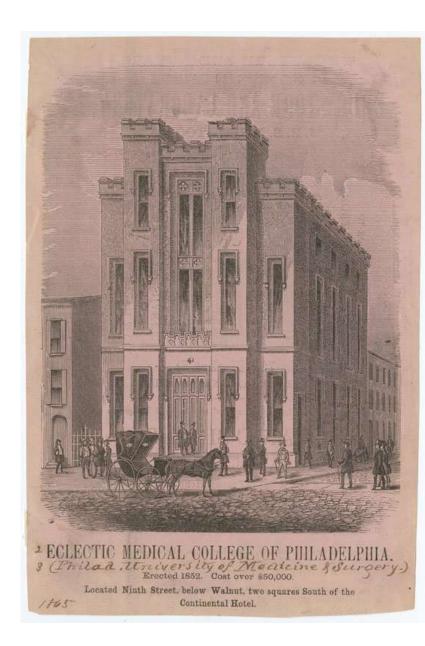
Hospitals; $3 \rightarrow 149$

Med schools; $7 \rightarrow 150$

"Proprietary Medical Schools"

Diploma Mills

 $https://www.library company.org/shadowe conomy/section 7_5.htm$



Learn how to teach???

"The time has come when the *art of medical teaching* must be taught ... whoever may choose to become a teacher of medicine, let him **first learn how to teach**.

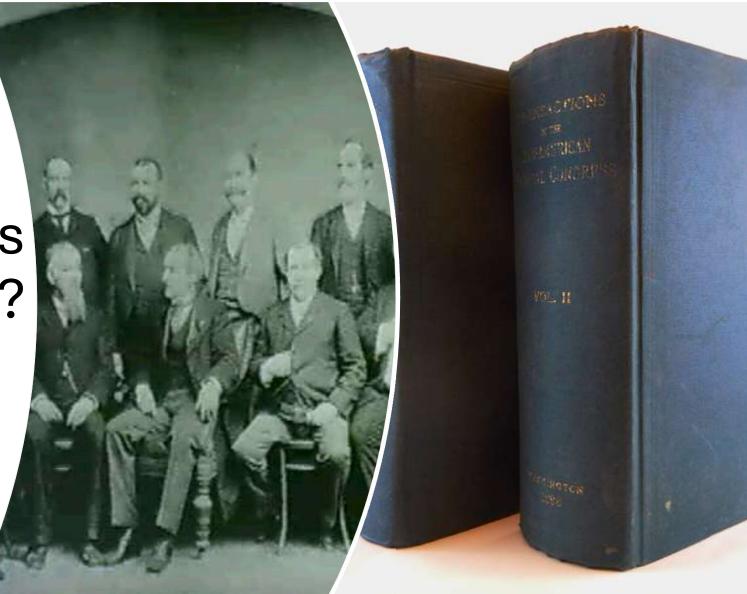
The idea seems to have been grasped by the ... Pan American Medical Congress ... this is notice to **platitudinous addle-pates** that the old-fashioned dissertation on "higher medical education" may be left on the dust covered shelf."

A Reformer. JAMA January 23, 1892, Vol 18 No 4

Platitudinous addle-pates?

ttps://www.biomedrarebooks.c om/

https://www.artnet.com/artists/ mathew-brady

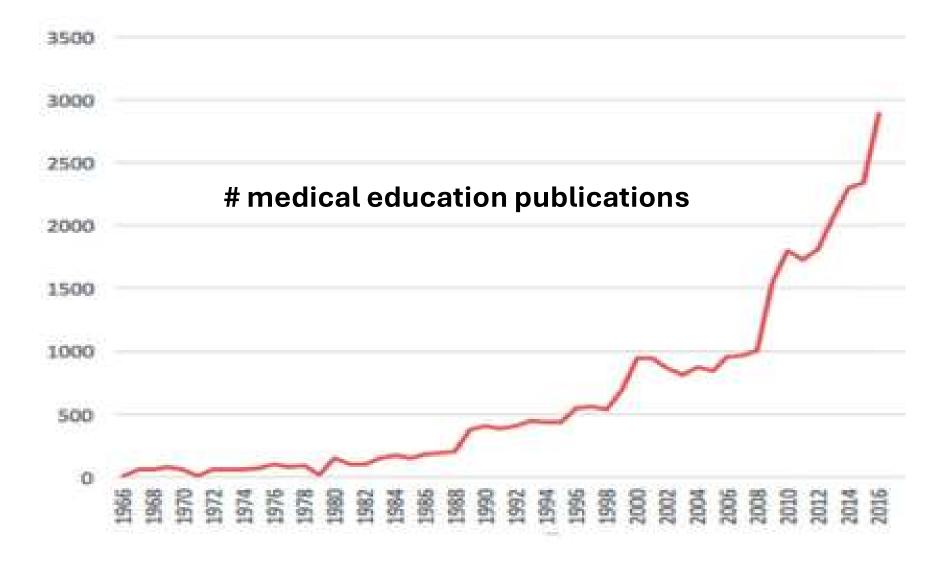


1910 - Flexner Report

- Visited 155 medical schools
 - Increased entrance standards
 - University affiliations
 - Importance of research
- # med schools \rightarrow 76
- Hist Black medical schools 5 \rightarrow 2

| Year | % of population Black | % of doctors Black | Life expect: Black / White |
|------|--------------------------|-----------------------|-------------------------------|
| 1900 | 12% | 1.3% | 33 / 48 |
| 1940 | 10% | 2.8% | 53 / 64 |
| 2018 | 13% | 5.4% | 75 / 79 |





Jason, Medical Teacher 2018

Emergence of "learning climate"

- Student teacher relationship is important
- Learning is an emotional experience
- Teacher attitudes matter
- Feeling accepted is important
- Enthusiasm is critical

Oppenheimer, R. H. (1934). Academic Medicine 9(6): 360-364 Miller, G. E. (1956). JAMA 162(16): 1448-1450. Jason, H. (1962). J Med Educ 37: 1258-1284. Stritter, F. T., et al. (1975). J Med Educ 50(9): 876-882. Irby, D. M. (1978). J Med Educ 53(10): 808-815.

Key Concepts

Learning climate

- Complex psycho-social-physical construct
- Co-created by individuals, social groups and organizations
- Teachers have a strong influence

Psychological safety

- You can be yourself
- Can participate w/o fear of ridicule
- Safe to make mistakes

Gruppen et al Acad Med. 2019

Top 3%

Positive affect \rightarrow achievement (each vein met)

32 male U of Michigan 3rd year medical students

15 difficult anagrams

Control group (n=14): told to judge difficulty of the task

Experimental group (n=18): solve anagrams, told they were in the top 3%

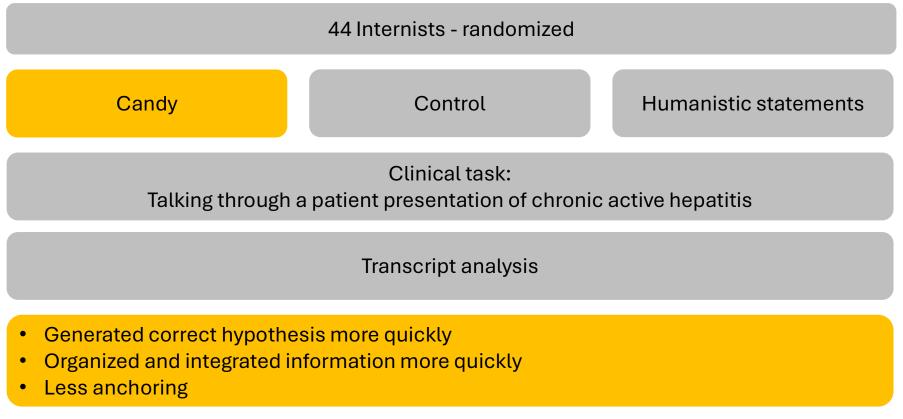
Clinical task: Asked to decide which of 6 patients more likely to have lung cancer

- Came to a diagnosis more efficiently
- Considered alternative diagnoses and treatments more thorough
- Kept working with the provided materials

(Med Decis Making 1991;11:221-227)

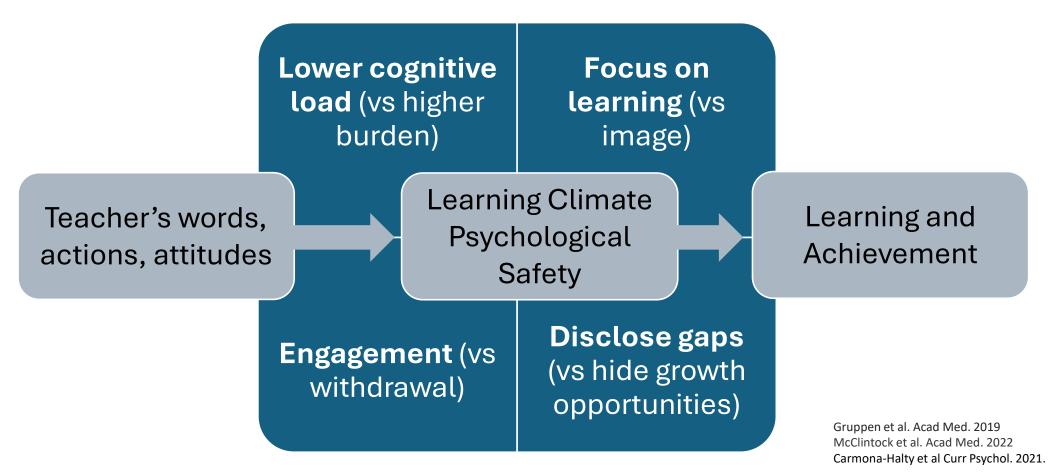


Positive affect \rightarrow achievement



(Organ Beh and Hum Dec Proc 1997; Vol 72 No 1, pp 117 – 1135; Canva Al Image)

Summary



Learning Climate Pearls



Show humility + memory

Address - isms and bias



Show interest in the human



Show humility + memory

- "Openly discussing mistakes they have made in their early career created a culture of learning rather than a fear of making mistakes."
- "If attendings can try to get in that headspace again - the anxiety of being in a new space, not having any clue how things work"



Image credit: OpenAI. 2025. AI-generated image of a physician reminiscing about medical school. DALL·E.



Show humility + memory

- "I remember one attending talked about how it really does suck sometimes to be a medical student - it was just a relief to hear that from my preceptor, because it told me in that moment that they get it."
- "Having humility, trying to minimize hierarchy, allowing space for discussion, so students, residents and attendings can all contribute."



Image credit: OpenAI. 2025. AI-generated image of a physician reminiscing about medical school. DALL·E.



Show humility + memory

Question:

When is the last time you demonstrated memory + humility to your learners?



Image credit: OpenAI. 2025. AI-generated image of a physician reminiscing about medical school. DALL·E.



Address -isms and Bias

- Reports from my students (over and over)
- Reflections on my own words and behaviors
- Significant issue identified at UW SOM, across country



Bullock et al, No One Size Fits All ...Acad Med: Nov 2021 – Vol 96 - Iss 11, S71-S80 Image credit: OpenAI. 2025. Al-generated image of scales of justice in hospital room. DALL·E.

Address -isms and bias \rightarrow *Before*

- "I'd like to discuss how we might approach racism, other -isms and biases
- This is something I discuss with *all the* students and trainees I work with."
- "My philosophy is *humans* come first."
- "Any thoughts on responding in these situations?"
- "It would be great to debrief afterwards if possible."

Possible options to respond in the moment:

- Look to me
- Interrupt, "I'm surprised to hear you say that."
- Re-direct and proceed "Let's focus on your care..."
- Leave the room (+/- "When I come back we're going to just focus on your care")

Address -isms and bias \rightarrow *During and after*

During

- Make sure the patient is safe (don't stop chest compressions, keep holding pressure etc)
- Carry out the plan
- Almost always better to say something than nothing

After

- Don't make assumptions about the learner experience
- Debrief with permission
- Learn how you could have been more effective

"But how will they learn to deal with these things???"

- By being supported by Attendings who uphold human dignity
- By being respected
- By being taught by strong role models
- By experiencing greater psychological safety



Image credit: OpenAI. 2025. AI-generated image of scales of justice in hospital room. DALL·E.

Three attendings who tried it out

"They were surprised that I was able to address this topic so openly and transparently with them."

"The students I worked with were pleasantly surprised and appreciative to have this discussion with me."

"... the learner appreciated the openness to a discussion. We revisited a couple experiences that he had, which I was not aware of ..."



Image credit: OpenAI. 2025. AI-generated image of scales of justice in hospital room. DALL-E.



Address -isms and Bias

Question:

Do you say something about the potential occurrence of -isms and bias to your learners?



Image credit: OpenAI. 2025. AI-generated image of scales of justice in hospital room. DALL-E.

Show interest in the human



- "Being curious about students as people."
- "Acknowledging when a student is showing emotion, showing that you care about their wellbeing."
- "Asking about how my weekend went."
- "Providing encouragement, expressing belief in the student, expressing belief that the student will be a great doctor."



Unsplash.com - Ekaterina Kuznetsova

Show interest in the human



Question:

What is a pitfall in "showing interest in the human – and how do you avoid it?



Unsplash.com - Ekaterina Kuznetsova

Learning Climate Pearls



Show humility + memory





Show interest in the human

Educator Career Development

CLIME Teaching Scholar's Program

White Paper Conference: Teaching Portfolio

CLIME Educator Network

Community Building

Conversation Café Series

CLIME Grand Rounds

CLIMECasts

CLIME Together Symposium



Small Grant Program

Works in Progress Series



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Teaching Skills

CLIME / Stern Partnership Workshops

Clinical Teaching Certificate Programs

Justin Bullock, MD Associate Director for Educational Scholarship (starts 2025 AY)



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CLIME.WASHINGTON.EDU





Sign up for CLIME communications!!!

... how do I teach when I don't have enough time? ... how do I connect with folks when their training is so different than what I went through?

... how can I better help prepare my students and residents to be doctors?

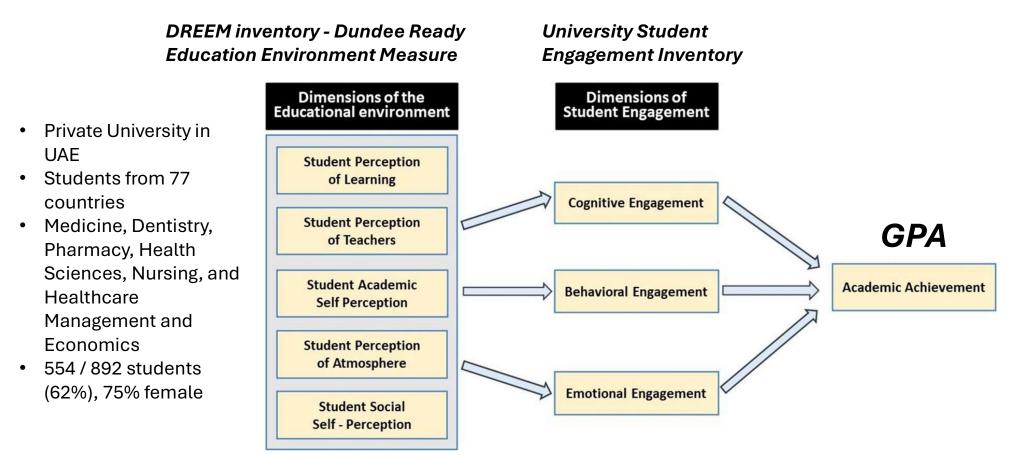
... how can I be a more effective teacher?

Objectives

- 1.Prioritize a positive learning climate as the foundation for learning
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- 3.Employ words and behaviors which positively impact the learning climate



Positive Environment \rightarrow Engagement \rightarrow Achievement



Kassab, S.E., Rathan, R., Taylor, D.C.M. et al. The impact of the educational environment on student engagement and academic performance in health professions education. BMC Med Educ 24, 1278 (2024). https://doi.org/10.1186/s12909-024-06270-9

Definitions

Platitudinous

- dull and tiresome
- with pretensions of significance or originality

Addle pate

- someone with a muddled or confused mind
- eccentric

