

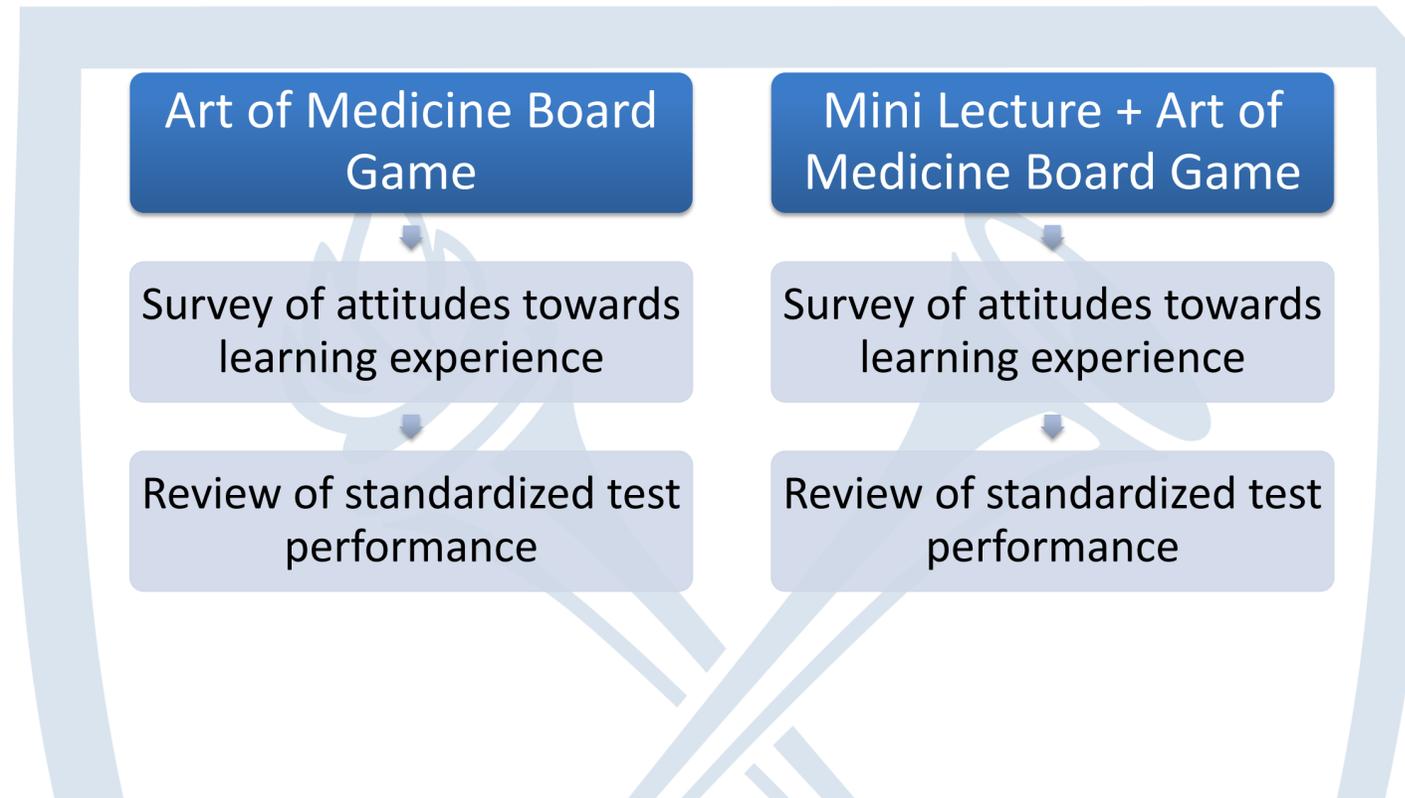
# Rolling the Dice: Is teaching chronic disease management using a board game effective?

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## Background & Purpose

- Novel methods of teaching content can be beneficial for adult learners
- Using games to delivery content has been attempted in medical education with some success
- The Adult Primary Care (APC) clerkship piloted a board game to help teach chronic disease management in 2015
- At that time all learners (102) were sent anonymous surveys via email within 1 week of playing the “Art of Medicine” board game.
- Of the 58 respondents:
  - 78% found the game enjoyable
  - 69% wanted it to remain a part of the clerkship
  - >50% felt it improved their ability to manage HTN and DM
- Given the positive response the purpose of this project is to determine:
  - If the “Art of Medicine” game is an adequate stand alone teaching tool for concepts related to Diabetes Mellitus and Hypertension
  - What are the themes reported by students that make the board game enjoyable and improve their management skills

## Methods



## Conclusion

- Based on previous experience with the “Art of Medicine” game it is hypothesized that:
  - Students will gain management skills as a result of their engagement in the game.
  - Medical knowledge equal to that obtained with a lecture will be obtained

## References

Karbownik MS, Wiktorowski-Owczarek A, Kowalczyk E, et al (2016). Board game vs. lecture based seminar in the teaching of pharmacology of antimicrobial drugs - a randomized controlled trial. *FEMS Microbiology Letters*, 363(7), 1-9.

Lee E, Moreau K, Lochnan H (2015). A customized board game enhances learning about obesity. *Medical Education*, 49(11), 1149-50.

Crowe BD, Rimler E (2018). Development and implementation of the “Art of Medicine” board game to improve chronic disease management among medical students. *Journal of General Internal Medicine*, 33(2), 699-700

## Playing the game

Pass July 1st, advance one year in residency

July 1st	BP Check	A1c Check	Art of Medicine	BP Check	A1c Check	Adverse Event
BP Check					BP Check	
A1c Check					A1c Check	
Art of Medicine					Art of Medicine	
BP Check					BP Check	
A1c Check					A1c Check	
Adverse Event	BP Check	A1c Check	Art of Medicine	BP Check	A1c Check	Adverse Event

Patient Name:					
Patient #:					
Problem List					
Allergies					

Visit #	BP & A1c at check-in		Plan	BP & A1c after visit	
	BP	A1c		BP	A1c
Example	130/90	7.0	-Start metformin 500mg BID (-1.5 A1c) -Start lisinopril 20mg daily (-10SBP/-5DBP)	120/80	5.5
1					
2					
3					
4					
5					

Pro-tip: use the back of the page for additional visits

You are seeing Patient 2 today.

The BP today is elevated from previous measurements.

Add +10 SBP/+5 DBP to your patient's last BP and make a new plan.

You are seeing Patient 2 today.

The A1c today is elevated from the last visit.

Add +1.0 to your patient's last A1c and make a new plan.

You are seeing Patient 1 today.

Your patient's BP has been >150 for the past three visits. You ask them if they have been taking their medicine and they say they have. They also tell you their BP is normal at home.

Take 1-2 minutes and discuss with your Co-Resident how you will approach this patient.

