



ELITE MEDICAL PREP

MEDICAL EDUCATION GRAND ROUNDS University of Hawai'i JABSOM

Delivered: April 14th, 2020

At the end of this presentation, the participants should be able to:

- Discuss examples of strategies utilized at other medical schools to assist students with preparing for USMLE 1.
- Discuss the role of optimized timing of focussed USMLE Reviews for medical students

Discuss best practices of online tutoring/teaching

USMLE Goals: Schools vs Students





USMLE Goals: Schools vs Students





Disclosures & My Background

Elite Medical Prep Founders



Marcel Brus-Ramer, MD/PhD Co-founder and President Kenneth Rubin, MD Co-founder and CEO

Board Certified Radiologist Columbia P&S Online Lecturer

Columbia University | UCSF

Rutgers | Paris Diderot

Mt Sinai USMLE Step 1 and Step 2 CK Course Director



Mt. Sinai | Columbia University



Elite Medical Prep tutors have been providing the highest level of medical tutoring since 2009. We have developed a 'Structured Personalization' system that ensures consistently high impact tutoring sessions.



Small Group Tutoring

Elite Medical Prep runs an integrated small group tutoring program for institutions that has produced outstanding results at Technion Medical School.

Elite Medical Prep Founders



Seminar Presentations

Elite Medical Prep delivers highly interactive seminars across different high-vield USMLE topics. Integrated material is presented in the same interactive format used in our board review courses at Mt. Sinai Medical School.



Elite Medical Prep has developed a unique intensive system for training its tutors. Our team works directly with medical schools to train their faculty & top students in the best methods for peer tutoring.

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ELITE MEDICAL PREP



- Current & former medical students
- Recently taken these exams
- <u>High scorers</u>: all tutors scored >245
- Tutored professionally for these exams
- Active in education & academic medicine
 - Some practicing physicians

Core services in 1:1 tutoring

- Developed as a natural outgrowth of work in pre-college & pre-medical tutoring
- Small group tutoring aims to take the best of 1:1
 and make it more affordable

SAT to USMLE: Experiences with tutoring

- → > 20 years of 1-on-1 tutoring experience across high stakes standardized testing
 - Pre-college SAT, ACT, SAT II
 - College MCAT, GRE
 - Medical USMLE Step 1, 2 CK, 3. Shelf Exams, ABIM
- → High stakes MCQ exams have growing importance
- → Many tests require separate skills for student to master.
 - Content Expert and a Test Expert are not necessarily the same thing
- → Instructors for these exams also may need to develop





1-on-1 Tutoring: Emphasizing Socratic Style



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USMLE Practice Question

A 26 year old woman is brought to the emergency department by her roommate because of vomiting for 4 hours. She also has a 2 day history of fatigue and dizziness on standing. She has had pain with eating for 3 months; treatment with over-the-counter antacids has provided some relief. The vital signs of the patient are T 35.6C (96F), pulse 110/min, and blood pressure 80/55 mm Hg. Physical examination shows marked pallot. Laboratory studies show a hemoglobin concentration of 6 g/dL and hematocrit of 18%. A chest x-ray is obtained (shown) and a pulmonary catheter is inserted and laboratory values are measured. Which of the following sets of findings is most consistent with the patient's condition?

	Cardiac Output	Pulmonary capillary wedge pressure	Systemic vascular resistance
A)	↑	4	4
B)	\downarrow	no change	1
C)	4	↑	1
D)	\downarrow	4	Ŷ
E)	no change	no change	1
F)	Ŷ	\uparrow	4



USMLE Practice Question

A 26 year old woman is brought to the emergency department by her roommate because of vomiting for 4 hours. She also has a 2 day history of fatigue and dizziness on standing. She has had pain with eating for 3 months; treatment with over-the-counter antacids has provided some relief. The vital signs of the patient are T 35.6C (96F), pulse 110/min, and blood pressure 80/55 mm Hg. Physical examination shows marked pallor. Laboratory studies show a hemoglobin concentration of 6 g/dL and hematocrit of 18%. A chest x-ray is obtained (shown) and a pulmonary catheter is inserted and laboratory values are measured. Which of the following sets of findings is most consistent with the patient's condition?

	Cardiac Output	Pulmonary capillary wedge pressure	Systemic vascular resistance
A)	1	\downarrow	\downarrow
B)	\downarrow	no change	↑
C)	\downarrow	1	1
D)	\downarrow	\downarrow	1
E)	no change	no change	1
F)	1	1	\downarrow





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ON-BOARDING

- Detailed consultation prior to tutoring
- Efficient student-tutor pairing
 - process
- Trial session
- Student feedback early & late

TRACKING

- Post-session emails to document
- Detailed tutor evaluation (initial)

- Online notes & worksheet
- High quality materials specialized for tutoring



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Alexandra Rzepecki MD
to Jacob, Post -
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HI Jacobi
On 4/14/20, we completed 1 hour of tutoring for your USMLE Step 1 exam.
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Tutor hours remaining: 19.25

Topics reviewed: Neuro UWorld questions

Next session: Friday April 17th from 5:30-6.30am EST, then 2 hours on Saturday April 18th

Assignment: Continue dois: UWorld questions doi/s watching Statuto and Pathoma wide
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Next session: Finally Apin Finitions 30-0-30 mit 2-1, tent 2 nows of saturday Apin Fish
Assignment: Continue doing UNOV diquestions daily watching Sketchy and Pathoma videos to supplement, reviewing your Anki cards
Score on your last practice tests 172 on NBME 20 on 3/3/123
Next practice test TBD
Your USMLE Step 1 exam: May 27, 2020
```

Another great neuro session-i can definitely see your knowledge base improving! We'll do one more neuro session together (or another topic if you prefer), an move on to doing biostats on Seturday.

Here is the link to the biostals videos I mentioned during our session today from OnlineMedEd. They are succinct and very helpful. I highly encourage you to w prior to starting your biostats questions!

Alexandra Rzepecki, MD



TRACKING

• Detailed tutor evaluation (initial)

4:44 PM (14 minutes ago) 🔥

- Post-session emails for every session
 - Documents material
 - coverage, HW, emerging
 - issues
 - Use S-O-A-P note format



- Online notes & worksheet
- High quality materials specialized for tutoring

1-on-1 Tutoring

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ON-BOARDING

- Detailed consultation prior to tutoring
- Efficient student-tutor pairing
 - process
- Trial session
- Student feedback early & late

<form>



TRACKING

- Detailed tutor evaluation (initial)
- Post-session emails for every session
 - Documents material coverage,
 - HW, emerging issues
 - Use S-O-A-P note format_

- Online notes & worksheet
 - Available to student, tutor & quality control
- High quality materials specialized for tutoring

Small Group Based Medical Education





Small Group Tutoring

Elite Medical Prep runs an integrated small group tutoring program for institutions that has produced outstanding results at **Technion Medical School.**

Small group tutoring is effective

- Currently completed 3rd year of structured small group tutoring
- Improved on-time test taking. Increased average score
- Adaptations: Started small groups earlier
 - beginning of 2nd year
 - utilized flipped classroom concept



amee () 2019

ABSTRACT BOOK

#10JJ Poster - Teaching and Learning 2

10JJ12 (891) Date of Presentation: Wednesday, 28 August 2019 Time of Session: 0830-1015 Location of Presentation: Hall/Foyer F, Level o

Importance of Small-Group Tutoring for Improved Step 1 Performance

AUTHOR(S):

- Marcel Brus-Ramer, Tel Aviv University, Israel (Presenter)
- Kenneth Rubin, Elite Medical Prep, USA
 Nina Kagan, Tel Aviv University, Israel
- in the tranger of the trans

ABSTRACT

Background: Preparing graduating students for Step 1 of the USMLE is an area of increasing interest for medical schools. A significant concern is the percentage of students not taking Step 1 on time, passing with weak scores, or failing. We decided to research the effectiveness of small-group online tutoring by experienced, trained USMLE tutors.

Summary of Work: In 2017-18, Elite Medical Prep LLC (EMP, www.elitemedicalprep.com) created an integrated Step 1 program, taught at the Technion - Israel Institute of Technology. An optional small group component was offered to students could work online with an experienced USMLE turt. These were 5 two-hour sessions over a 2-3 month period. Small group tutors employed a structured methodology based

Technion: Experiences with Lectures & Small Group



- → Technion American Medical School
 - Small US style med school (~35 students/year) embedded w/in a major Israeli medical school & university
 - Many students w/background of weak MCAT scores
 - Problems: students delaying Step 1; some failing Step 1
- → EMP Intervention was small group w/linked introductory lectures
 - Small groups run by experienced tutors
- → Subsequent years: earlier start of small group intervention was requested.



- 3 wk Step 1 Course
- 2 wk Step 2 Course



Medical School for International Health Ben-Gurion University of the Negev • Small group component starting in 2020-21

1 wk Step 1 Course

- 2 day mini-courses-Dec & Jun
- Distributed lectures in prior years



Elite Medical Prep delivers highly interactive seminars across different high-yield USMLE topics. Integrated material is presented in the same interactive format used in our board review courses at *Mt. Sinai Medical School.*

Pre-learning component⁻



Icahn School of Medicine at Mount Sinai	 3 wk Step 1 Course 2 wk Step 2 Course 	Mt Sinai: Creating a Question Based Course
UNIV School of MEDICINE	 1 wk Step 1 Course Small group component starting in 2020-21 	 Over 3 years, converted didactic review to interactive Q-based course Multi-part cases adapted from tutoring
Medical School for International Health Ben-Gurion University of the Negev	 2 day mini-courses-Dec & Jun Distributed lectures in prior years 	→ Designed to accommodate in-person
USIMIE		attendees and those watching recordings
Seminar Presentations		 Plans to split and shift the course timing Some percentage of the course content may be
Elite Medical Prep delivers highly interactive seminars across different high-yield USMLE topics. Integrated material is presented in the same interactive format used in our board review courses at <i>Mt. Sinai Medical School.</i>		 moved earlier in the academic year Key takeaway: Students want integrative reviews earlier



Medical Sch

for International Health Ben-Gurion University of the Negev

School of MEDICINE

- 3 wk Step 1 Course
- 2 wk Step 2 Course

1 wk Step 1 Course Small group compo

- Small group component starting in 2020-21
- 2 day mini-courses-Dec & Jun
- Distributed lectures in prior years

UNLV: Optimizing the timing of interventions

- → UNLV SOM uses hybrid preclinical curriculum--1.5 yrs
 - 1 wk review course during dedicated study period
- → USMLE Review Course customized on short notice
 - Very positive student feedback
 - However, near uniform request to have earlier in the academic year.

→ Planned revisions for next course

- 1 wk course to be moved back 1-2 months earlier
- Small group tutoring supplement for at-risk

Seminar Presentations

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Icahn School of Medicine at Mount Sinai	 3 wk Step 1 @ourse 2 wk Step 2 Course 	BGU: Split Mini-Courses
UNIV School of MEDICINE	 1 wk Step 1 Course Small group component starting in 2020-21 	 → BGU MSIH ♦ English language program at an Israeli medical school ♦ Created 2 mini courses of several days length
Medical School for International Health Ben-Gurion University of the Negev	 2 day mini-courses-Dec & Jun Distributed lectures in prior years 	 Mini-course Part 1 Very positive student feedback
USIMIE		 However, near uniform request for integrative course earlier in the academic year. Part 2 online in June
Seminar Presentations		\rightarrow Planned revisions for next course
Elite Medical Prep delivers highly interactive seminars across different high-yield USMLE topics. Integrated material is presented in the same interactive format used in our board review courses at <i>Mt. Sinai Medical School.</i>		 Version Part 1 & Part 2 started earlier in 2nd year. Small group tutoring supplement for at-risk students



- 3 wk Step 1 Course
- 2 wk Step 2 Course

School of MEDICINE

- 1 wk Step 1 Course
- Medical School for International Health Gurion University of the Negev
- **Seminar Presentations** Elite Medical Prep delivers highly interactive

seminars across different high-yield USMLE topics. Integrated material is presented in the same interactive format used in our board review courses at Mt. Sinai Medical School.



- 2 day mini-courses-Dec & Jun
- **Distributed lectures in prior** years



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*

*

Earlier start, more recording Ο oriented for asynchronous viewing

COVID-19 QUARANTINE

Adaptations to Travel and Meeting

Restrictions

Mt Sinai course--live in-person

Course converted to online

• delivery via Zoom

Much greater tutor involvement in

both courses

canceled.

Step 1 Course

Our Team





- Current & former medical students
- Recently taken these exams
- <u>High scorers</u>: all tutors scored >245
- Tutored professionally for these exams
- Actively interested in education & academic medicine
- Some practicing physicians

USMLE Question Example

Presented on 1/31/20 to Jefferson 2nd years



USMLE Practice Question

A 26 year old woman is brought to the emergency department by her roommate because of vomiting for 4 hours. She also has a 2 day history of fatigue and dizziness on standing. She has had pain with eating for 3 months; treatment with over-the-counter antacids has provided some relief. The vital signs of the patient are T 35.6C (96F), pulse 110/min, and blood pressure 80/55 mm Hg. Physical examination shows marked pallor. Laboratory studies show a hemoglobin concentration of 6 g/dL and hematocrit of 18%. A chest x-ray is obtained (shown) and a pulmonary catheter is inserted and laboratory values are measured. Which of the following sets of findings is most consistent with the patient's condition?

	Cardiac Output	Pulmonary capillary wedge pressure	Systemic vascular resistance
A)	↑ (\downarrow	\downarrow
B)	Ļ	no change	1
C)	Ļ	↑	1
D)	Ļ	\downarrow	1
E)	no change	no change	1
F)	↑	\uparrow	\downarrow



Live Polling at:

www.pollev.com/smartland010

PART B: Which of the following sets of findings is most consistent with the patient's condition?

B

F



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Multiple Challenges in One Question



USMLE Style Questions: From great challenges come stronger learning

- Good use of USMLE Questions can lead to better retention of material and lead to great lessons
- USMLE Step 1 questions pose significant cognitive challenges to students but also can help set learning expectations
- Questions can also demonstrate the context and application of the material students are learning
 - Lectures and small groups/PBL, etc.
- Integrating USMLE Questions into teaching helps maintain student engagement.

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C)	\downarrow	\uparrow	1
D)	\downarrow	\downarrow	1
E)	no change	no change	1



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Which of the following sets of findings is most consistent with the patient's condition?

2		Cardiac Output	Pulmonary capillary wedge pressure	Systemic vascular resistance
	A)	↑	\downarrow	\downarrow
	B)	\downarrow	no change	1
	C)	\downarrow	\uparrow	1
	D)	\downarrow	\downarrow	1
	E)	no change	no change	\uparrow



3 A 26 year old woman is brought to the emergency department by her roommate because of vomiting for 4 hours. She also has a 2 day history of fatigue and dizziness on standing. She has had pain with eating for 3 months; treatment with over-the-counter antacids has provided some relief. The vital signs of the patient are T 35.6C (96F), pulse 110/min, and blood pressure 80/55 mm Hg. Physical examination shows marked pallor. Laboratory studies show a hemoglobin concentration of 6 g/dL and hematocrit of 18%. A chest x-ray is obtained (shown) and a pulmonary catheter is inserted and laboratory values are measured.

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2		Cardiac Output	Pulmonary capillary wedge pressure	Systemic vascular resistance		
	A)	↑	\downarrow	\downarrow		
	B)	↓	no change	↑		
	C)	↓	\uparrow	1		
	D)	↓	\downarrow	1		
	E)	no change	no change	1		



A 26 year old woman is brought to the emergency department by her roommate because of vomiting for 4 hours. She also has a 2 day history of fatigue and dizziness on standing. She has had pain with eating for 3 months; treatment with over-the-counter antacids has provided some relief. The vital signs of the patient are T 35.6C (96F), pulse 110/min, and blood pressure 80/55 mm Hg. Physical examination shows marked pallor. Laboratory studies show a hemoglobin concentration of 6 g/dL and hematocrit of 18%. A chest x-ray is obtained (shown) and a pulmonary catheter is inserted and laboratory values are measured.
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	A)	↑	\downarrow	\downarrow
	B)	\downarrow	no change	1
	C)	\downarrow	↑	1
	D)	\downarrow	\downarrow	1
	E)	no change	no change	1



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C)	\downarrow	\uparrow	1
D)	\downarrow	\downarrow	1
E)	no change	no change	1



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Which of the following sets of findings is most consistent with the patient's condition?

2		Cardiac Output	Pulmonary capillary wedge pressure	Systemic vascular resistance
	A)	↑	\downarrow	\downarrow



The answer choices – gives you some context as to what the question is about

The prompt – highlight <u>three</u> important pieces of information; summarize in your own words the key information as it's given; ensure that the answer matches ALL of the information given, not just some

AP ERECT

EMP's SUGGESTED ORDER. There is no one right way to do this.

B)

C)

D)



3

no change

Labs and images – EVAL the labs. IGNORE the images.

Question Extensions

Part B

A patient in the early stages of hemorrhagic shock is most likely to have which of the following?

- A) Decreased myocardial contractility
- B) Decreased renal sympathetic nerve activity
- C) Flushing due to cutaneous vasodilation
- D) Increased delivery of sodium to the macula densa
- E) Increased renal blood flow due to sympathetic activation
- F) Increased ventilatory rate due to tissue ischemia
- G) Sweating due to parasympathetic stimulation of sweat glands



Part C

In a patient who is hemorrhaging, which of the following is an adaptive response that helps to maintain mean arterial pressure?

- A) Decreased end-diastolic volume
- B) Increased end-systolic volume
- C) Increased venous compliance
- D) Inhibition of secretion of ADH (vasopressin)
- E) A fluid shift from interstitial to vascular compartments
- F) Release of atrial natriuretic peptide



Part D

In a patient who is hemorrhaging, which of the following changes in body fluid volume or osmolality is most likely seen?

	Intra	cellular	Extra	cellular
	Volume	Osmolality	Volume	Osmolality
<mark>A)</mark>	No change	No change	Ļ	No change
B)	\downarrow	1	\downarrow	1
C)	1	\downarrow	\downarrow	\downarrow
D)	No change	No change	↑	No change
E)	\downarrow	1	↑	↑
F)	\downarrow		1	\downarrow

Part E

After the patient's blood pressure and volume status are stabilized, she is scheduled to undergo surgery to treat the likely source of hypovolemia and free intra-abdominal air. Immediately prior to going to the operating room, a CT of the abdomen and pelvis is performed to assist with surgical planning. Which of the following structures on the axial CT image through the abdomen is the likely source of the free air and associated hypovolemia?

A. B. C. D. E. F. G.



RECALL

A 26 year old woman is brought to the emergency department by her roommate because of vomiting for 4 hours. She also has a 2 day history of fatigue and dizziness on standing. She has had severe heartburn for 3 months; treatment with over-the-counter antacids has provided some relief.

PART E: Which of the following structures on the axial CT image through the abdomen is the likely source of the free air and associated hypovolemia?





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Part E

After the patient's blood pressure and volume status are stabilized, she is scheduled to undergo surgery to treat the likely source of hypovolemia and free intra-abdominal air. Immediately prior to going to the operating room, a CT of the abdomen and pelvis is performed to assist with surgical planning. Which of the following structures on the axial CT image through the abdomen is the likely source of the free air and associated hypovolemia?

A. B. C. D. E. F. G.



RECALL

A 26 year old woman is brought to the emergency department by her roommate because of vomiting for 4 hours. She also has a 2 day history of fatigue and dizziness on standing. She has had pain with eating for 3 months; treatment with over-the-counter antacids has provided some relief.

Additional Question Polling Example



COVID-19 Radiology Webinar for Medical Students





COVID Radiology Webinar



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Summary of USMLE Experiences

- → USMLE will remain a major part of pre-clinical medical education for the foreseeable future
- → Students respond well to interactive question-based review
 - Either in large group or small group format
- → Earlier interventions seems increasingly important to students
- → USMLE review can be complementary and integrated into existing medical school curriculum

→ USMLE review may require separate skill set for educators vs traditional medical school curriculum

Summary of Online Best Practices

→ 1:1 and small group tutoring naturally adapt to online format

- Tracking is key to ensuring adherence & identifying problems
- Structured materials improve session to session quality
- Small group size cap at 5 students
- → Large courses can function well in online format
 - Polling serves as important feedback mechanism
 - Pre-learning component helpful
 - Question difficulty variety important to maintain interest

Prepare material to accommodate live and asynchronous audiences

Thank you

Questions?

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