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# Should We Interview This Medical Student For General Surgery?

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# 2020 DISCLOSURE SLIDE

- Philip Schertz
  
- Nothing To Disclose

# Who

Selection based off of a number

USMLE/COMLEX

There is no single factor

In person interview is the most important

Online there is no difference

Cognitive qualities

- Interpersonal skill
- Communication skill
- Professionalism
- Patient care

Study Design:

9 HCA Healthcare Hospitals

411 ranked medical students for general surgery

2017-2018 cycle

**USMLE/COMLEX of all levels**

**Age**

**Gender**

**Birth Location**

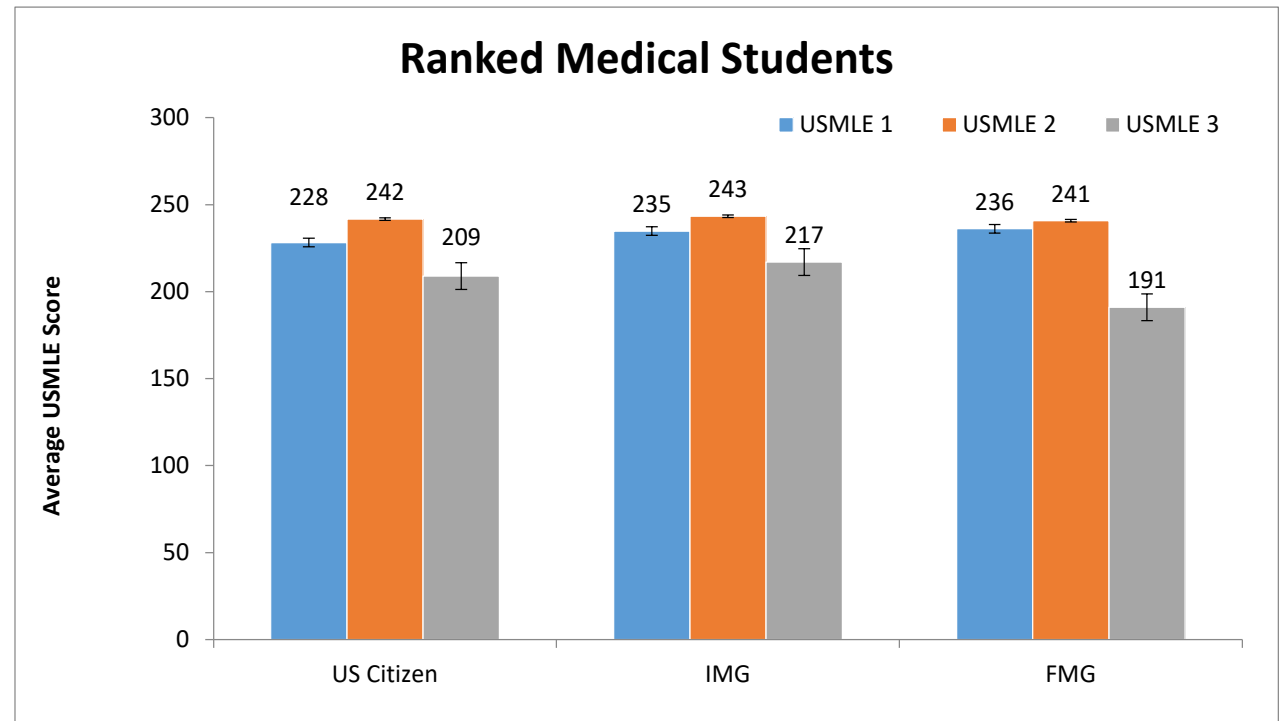
**Same medical school and matching state**

**AIM: Determine which factors have the biggest impact into selection of a medical student for surgical residency**

# Results

Descriptive Statistics of Exam Scores and Rank Order			
		N	Mean
USMLE	US	305	228.17
	US IMG	24	234.79
	Not US IMG	11	236.18
	Total	340	228.9
USMLE 2	US	303	241.76
	US IMG	24	243.29
	Not US IMG	11	240.82
	Total	338	241.84
USMLE 3	US	5	209
	US IMG	1	217
	Not US IMG	1	191
Rank Order	US	371	18.48
	US IMG	24	11.17
	Not US IMG	11	10.91
	Total	406	17.84

- Similar performance on USMLE 2 and 3 exams
- IMG performed better compared to US graduates and FMG



# Results

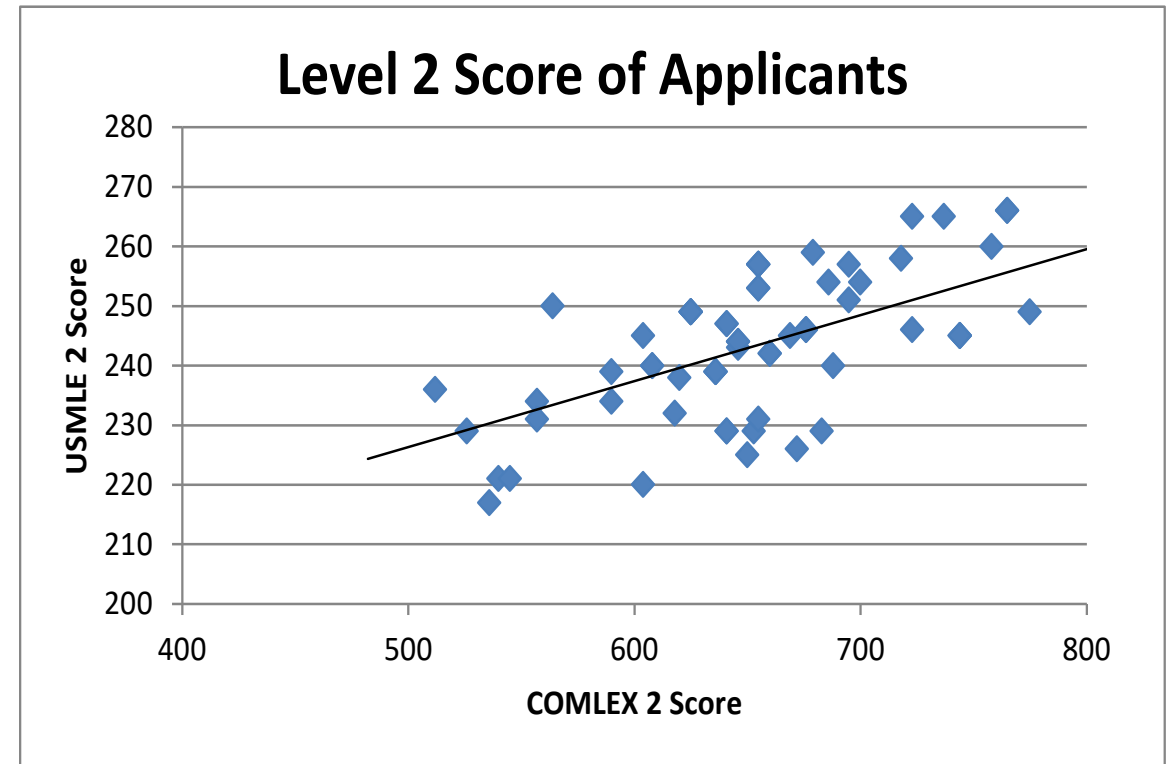
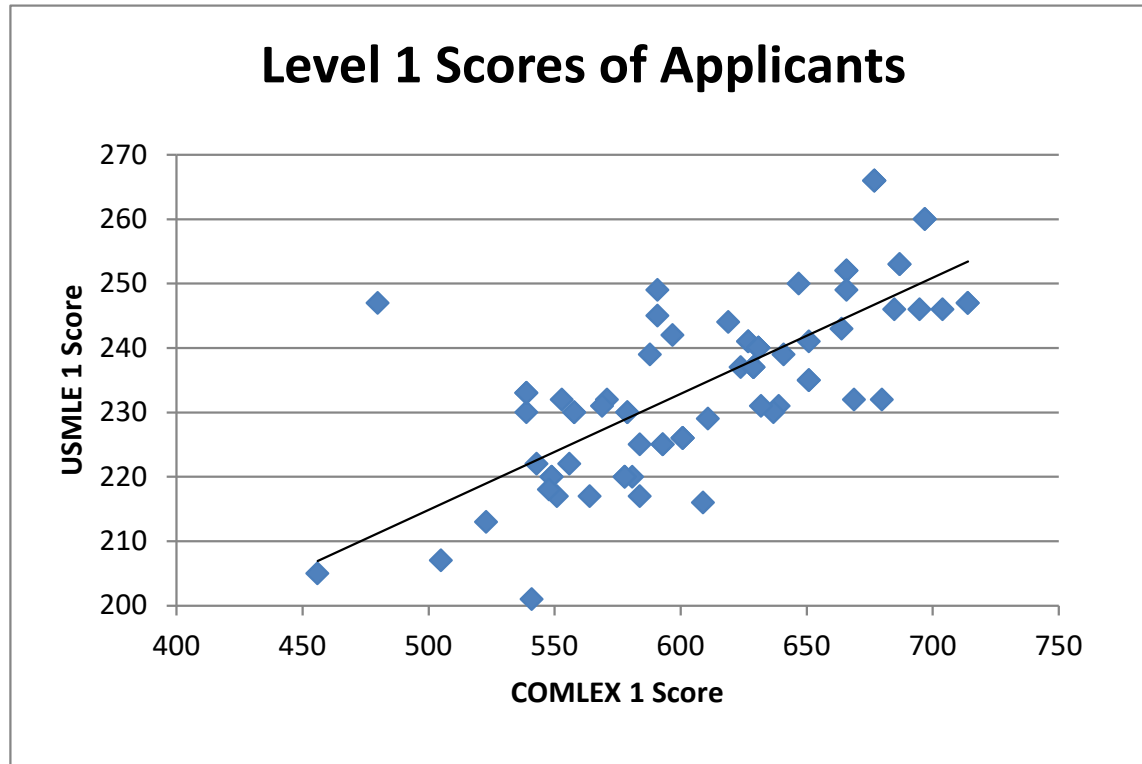
- Weak association between residents matching to a residency program in-state to where they attended medical school. (Cramer V correlation 0.2782)

State of HCA Facility	Medical School Attended Same as HCA Residency US State	
	Not Matched, N (%)	Matched, N (%)
California	12 (87.51)	2 (14.29)
Kansas	16 (80)	4 (20)
Georgia	53 (83.3)	7 (11.67)
Colorado	64 (96.97)	2 (3.03)
Florida	102 (82.26)	22 (17.74)
Nevada	45 (91.84)	4 (8.16)
South Carolina	48 (96)	2 (4)

# Score Prediction

$$\text{USMLE 1} = (\text{COMPLEX1}) \times 0.18 + 124.833 \quad (R = 0.733)$$

$$\text{USMLE 2} = (\text{COMPLEX2}) \times 0.111 + 107.899 \quad (R = 0.672)$$



# Conclusion

**USMLE/COMLEX determines the selection**

**More challenging for non US medical graduates**

**Graduating in a state gives a better chance of staying there**

**Future Direction:**

**Expanding themes to other residency positions**



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