



Introduction

- **PROBLEM:** With the shift to competency-based assessment, determining when students are prepared to take high-stakes OSCEs is essential.
- **STUDY QUESTION:** Can evidence collected from existing M-3 clerkship OSCEs & end-of-year Benchmark OSCE (BOSCE) inform when high stakes OSCE's are offered?
- **FRAMEWORK:** Relationships of student scores in clerkship OSCEs and BOSCEs are compared across time.

Correlation of M-3 OSCE Scores / BOSCE Scores						
OSCE	Pearson Correlations					
	OSCE Order ---->	1	2	3	4	5
Family Medicine		.432*	-----	.140	.333	-----
Medicine		.409*	.319	.263	.455*	.252
Ob/Gyn		.330*	.212	.392	.252	.377*
Neurology		.192	.239	.396	.643*	.112
Pediatrics		.379	.374	.460	.532*	.443
Psychiatry		.343	.091	.242	.322	.347*
Surgery		.302	.400*	.317	.325	.138

* Shaded cells are earliest predictors of BOSCE scores (all p<.050).

* Strongest correlated score and predictor

* Correlated score and predictor

* Strongest correlated scores

* Note: *=Statistically significant correlation (p<.050)



8-month mark



Methods

- **DATA SET:** 2008-2009 M3 OSCE checklists - used to collect dichotomous-scaled clinical skills items.
 - ❖ Total of 29 cases.
 - ❖ Drawn from 7 sets of clerkship OSCEs & BOSCE.
 - ❖ N=210 M3 students.
- **ANALYSIS:** All checklist items analyzed with SPSS 15.0
 - ❖ Pearson correlations & linear regressions of M-3 OSCE. percentage scores with BOSCE percentage scores
 - ❖ Reliability analysis via Cronbach alpha.



Results

- By the fourth set of M-3 OSCEs (8th month of academic year), predict student BOSCE scores from five (of seven) of their M-3 OSCE scores.
 - ❖ Correlations & stepwise linear regression models (p<0.050).
 - ❖ All M-3 OSCE scores are moderately correlated with BOSCE scores by 8th month.
- All OSCE/BOSCE cases yielded checklist item data with internal consistencies (reliabilities) ranging from Cronbach alpha=0.50 to 0.80.



Summary/Educational Significance

- Analysis reveals that by 8th month of the academic year one can adequately predict student BOSCE scores from their M-3 OSCE scores.
- Ability to predict scores prior to “high stakes” OSCEs provides key stakeholders:
 - ❖ With a timeline for when to anticipate competent student performance.
 - ❖ Guidance for creating competency-based OSCE calendar/schedule.



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