

Using Standardized Patient Encounters for Class-wide Assessment and Remediation of Osteopathic Medical Student Clinical and Professional Skills

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Presentation Objectives

- Provide a brief history of annual OMS testing using standardized patient encounters (SPE)
- Describe our testing process
- Describe our remediation process
- Consider barriers
- Discuss future goals

History of Annual OMS Testing through SPE

■ OMSIII Testing

- Was the first annual test using SPE
- Started with MO region (Class of 1998)
- Occurred for all students (Class of 1999)
 - Testing occurred in AZ, MI, OH, and MO
- Conducted only in MO for all students (Class of 2005)
- Presently consists of 8 SPE

History of Annual OMS Testing through SPE

■ OMSII Testing

- Started as Pre-clerkship OSCEs (Class of 1998)
- Included OSCEs and SPE (Class of 2006)
- Included OSCEs, SPE, and HPS experiences (Class of 2008)
- Limited to SPE and HPS experiences (Class of 2009)
- Presently consists of 4 SPE and 2 HPS experiences

History of Annual OMS Testing through SPE

■ OMSI Testing

- Started as OSCEs and SPE (Class of 2009)
- Became SPE only (Class of 2010)
- Presently consists of 2 SPE

History of Annual OMS Testing through SPE

- OMS Testing process updated in 2007
 - Primary goal now clinical skills assessment
 - To include history taking, PE skills, OMT examination, critical thinking, communication, professionalism, writing, and medical reasoning
 - Basic science knowledge judged through medical decision making
 - Assessment changed to mirror COMLEX PE
 - Formal remediation process initiated

OMS Testing through SPE

- Each standardized patient encounter consists of
 - One student, one trained SP on a case written by a faculty member
 - 13 minutes for student to perform a history and PE on a SP
 - 9 minutes for student to write SOAP note

Assessment through SPE

- Students' interpersonal skills, history taking skills, and physical exam skills are scored by SP directly following encounter through use of a case specific checklist.
- OMM evaluation and treatment graded by OMM fellows through direct observation.
- SOAP notes are graded by case authors.

Assessment through SPE

- Final assessment, i.e., grades determined in two domains:

Biomechanics (100%)

- HPI (23% OMSIII; 25% OMSI and OMSII)
- Physical Exam (23% OMSIII; 25% OMSI and OMSII)
- SOAP note (50%)
- OMM Eval/Trt (4% OMSIII)

Humanistic (100%)

- Patient-centered care (50%)
- Interpersonal Communication Skills (50%)

- 70 % is required to pass

Assessment through SPE

- Grades distributed to the students by the Director of the Standardized Patient Center
- Emails inform students if remediation is necessary
- OMS test scores communicated to the appropriate Deans

OMS Remediation

- In order to tailor remediation to weakness, students are placed in tracks
- Each track has different remediation steps
- OMSIII remediation occurs via WebCT
- OMSI and II remediation occurs via email and in person
- All remediation results are communicated to the appropriate Deans

OMSIII Remediation

- Track 1: Students failing 2 or more cases in the Humanistic domain and/or receiving a score of 60% or below on any 1 case
 - Student remediation consists of reviewing all failing performances and writing a reflective document including 10 aspects relevant to the failing score
 - Kirksville faculty review document via WebCT, compare student's assessments with videos and SP checklist, and notify staff if appropriate remediation occurred
 - Staff notify student if remediation is successful or if more work is needed

OMSIII Remediation

- Track 2: Students receiving an average biomechanics score of 65% or below
 - Student remediation consists of reviewing failing performances and writing a reflective document including 10 aspects relevant to the failing score
 - Regional Dean reviews document, compares student's assessments with videos and SP checklist, and determines if deficiencies need more attention.
 - Regional Dean may refer student back to Kirksville if unable to fully remediate at regional site.

OMSIII Remediation

- Track 3: Students receiving an average biomechanics score between 65% - 70%
 - Identical remediation to track 1 except students review only their 2 lowest-scoring encounters
- Track 4: Students passing the 8 encounters but failed more than 1 case in the biomechanics domain
 - Identical remediation to track 1 and 3 except students review only their lowest-scoring encounter

OMS II Remediation

- Track 1: Students failing any case in the Humanistic domain
 - Students review their performance
 - Students watch and review encounter with an SP
 - Students perform a 5th SPE (on-campus)
 - If students fail this 5th SPE, regional dean is notified and expected to follow up and “sign-off” on the student by the end of their first rotation

OMS II Remediation

- Track 2: Students who fail the history and physical exam components of the biomechanics domain
 - Case diagnoses given to students
 - Students review their encounters and write a reflective list of missing history questions and physical exam items
 - Faculty member reviews list and provides feedback
 - Student participates in 1-2 practice SPE
 - Receives verbal feedback from SP; compares note to Grading Rubric

OMS II Remediation

■ Track 2, cont.

- Retests on a 5th SPE
- Grading occurs as did with original 4 SPE
- Students meet in small group with faculty member for case analysis
- If students fail this 5th SPE, regional dean is notified and expected to follow up and “sign-off” on the student by the end of their first rotation

OMS II Remediation

- Track 3: Students who fail the history, physical exam, and SOAP note components of the biomechanics domain
 - Remediation identical to those in Track 2 except students have to rewrite SOAP notes incorporating their list (after its review by faculty)
- Students failing an HPS case had an additional WebCT assignment to complete.

OMS I Remediation

- Track 1: Humanistic domain failure
 - Students review their performance and write a reflective list
 - SPE Director will review list and consult with Family Med faculty as needed to determine completion of remediation
- Track 2: Biomechanics failure- history and PE
 - Students given a case analysis by a faculty member summarizing important aspects of case
 - Students review their performance and write a reflective list
 - FM Faculty review and determine if remediation is complete

OMS I Remediation

- Track 3: Biomechanics failure- history, PE, and SOAP note
 - Students given a case analysis by a faculty member summarizing important aspects of case
 - Students review their performance and write a reflective list
 - List reviewed by FM faculty and feedback provided
 - Students given SOAP note guide, write two new SOAP notes, and submit to FM faculty
 - FM Faculty review notes and determine if remediation is complete

OMS Remediation

Interesting Facts

- Of our track 2 students identified on OMSIII testing for class of 2008, 6 of 13 failed COMLEX PE on first attempt
- 3 students identified at risk for failing OMSII testing were provided additional practice SPE prior to testing; none of the three failed
- For the class of 2010, only one student failed biomechanics portion of OMSI testing and no students failed humanistic domain

OMS Remediation

Interesting Facts

- In attempts to improve OMSIII test scores and COMLEX PE performance:
 - the class of 2009 received an OMSIII Tips for Success Packet in December which included
 - PPT on SOAP note writing
 - Sample SOAP notes
 - Sample grading rubric
 - FAQ
 - regions were supplied with 3 CDs containing an SPE, a sample SOAP note, SOAP grading rubric, and a faculty member case analysis to be shown on an education day
 - Time will tell if these efforts pay off

COMLEX-PE Remediation

- Students inform school of failure and their areas marked needs improvement
- Student comes to Kirksville and performs 2-3 SPE while 2 faculty members watch
- Faculty members receive feedback from SPs and grade SOAP notes
- Faculty members meet with the student to make recommendations for improvement
- Student receives a typed summary of recommendations and a copy of the OMSIII Tips for Success Packet

Barriers

- The usual three:
 - Time
 - Manpower
 - Funding

Future Ideas for Improvement

- Schedule longer time block for testing process so that testing and remediation may all take place in person (OMSIII and OMSI)
- Grade SOAP notes quicker; this is the limiting step for all
- Appointed committee that meets year round to prepare cases, train SPs, etc
- Increase number of staff and faculty involved