

Implementation, Results, and Sharing Modules from a single institution's Derm Mega-OSCE

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Background

Objective Structured Clinical Examination (OSCE)

- 1979: Introduced by Harden and Gleeson
 - To evaluate history and physical exam skills in medical students
- 1990: Used in evaluating clinical performance of internal medicine residents in Galveston, TX
- Since, Used by other residencies

Advantages

- Reliability*
- Validity*
 - Performance varied with level of training $p < .0001$
- Assess core competencies
 - Realistic patient communication
 - Patient management skills
 - Selection of ancillary diagnostics and therapies
 - Interface with electronic medical record

Petrusa ER, Blackwell TA, Ainsworth MA. Reliability and validity of an objective structured clinical examination for assessing the clinical performance of residents. Arch Intern Med. 990 Mar; 150(3): 573-7.

Perceived Disadvantages

- Cost
- Time
- Applicability to Dermatology
 - Difficult to simulate real skin disease
 - Standardized patients with skin disease are neither common nor universally available

Can OSCE work in Derm? (without “faking” dermatoses)

YES, by focusing OSCE assessments on:

- Transiently flaring dermatoses, currently clear
- Skin Cancer Screening
- Complex medication management that has led to clearing of disease
- Dysesthesia disorders
- Cosmetic consultation / body dysmorphic disorder
- Peri-operative processes
- Phone triage of concerned patients

MEGA-OSCE Concept

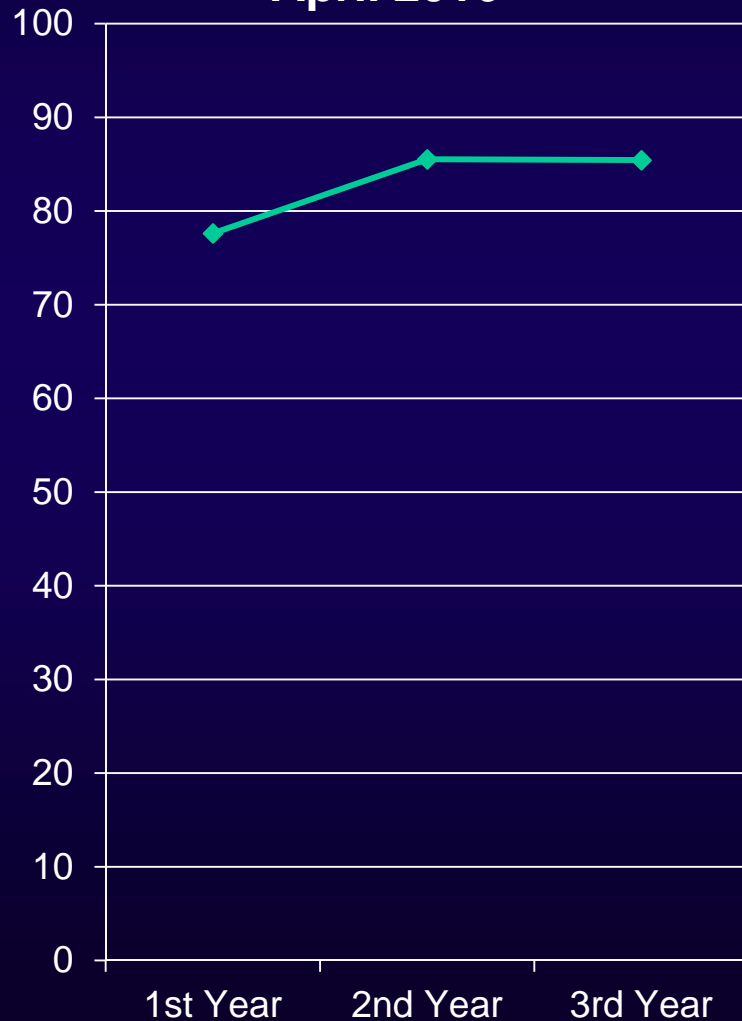
- One half-day (Saturday morning)
- Multiple OSCE (Seven 20-minute modules)
- All residents at different levels take same assessment modules
- Faculty serve as assessors (Including 10 minute debrief with feedback after each)
- Faculty serve as mock patients in some OSCEs
- Modules weighted equally
- Modules chosen to assess various competency domains

MEGA-OSCE Concept

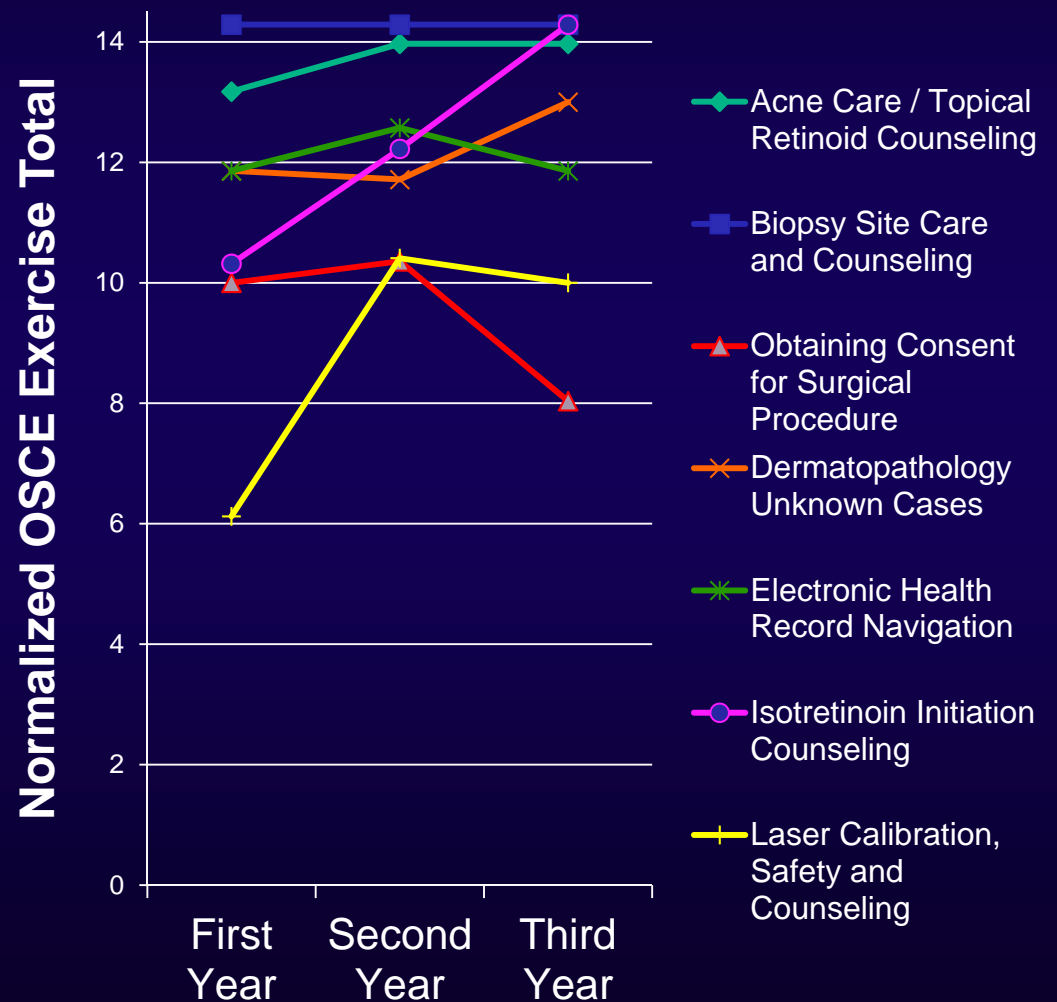
- Acne Care / Topical Retinoid Counseling
- Biopsy Site Care and Counseling
- Cheek Excision Site Preparation
- Dermatopathology Unknown Cases
- Electronic Health Record Navigation
- Isotretinoin initiation counseling
- Laser Calibration, Safety and Counseling

MEGA-OSCE RESULTS

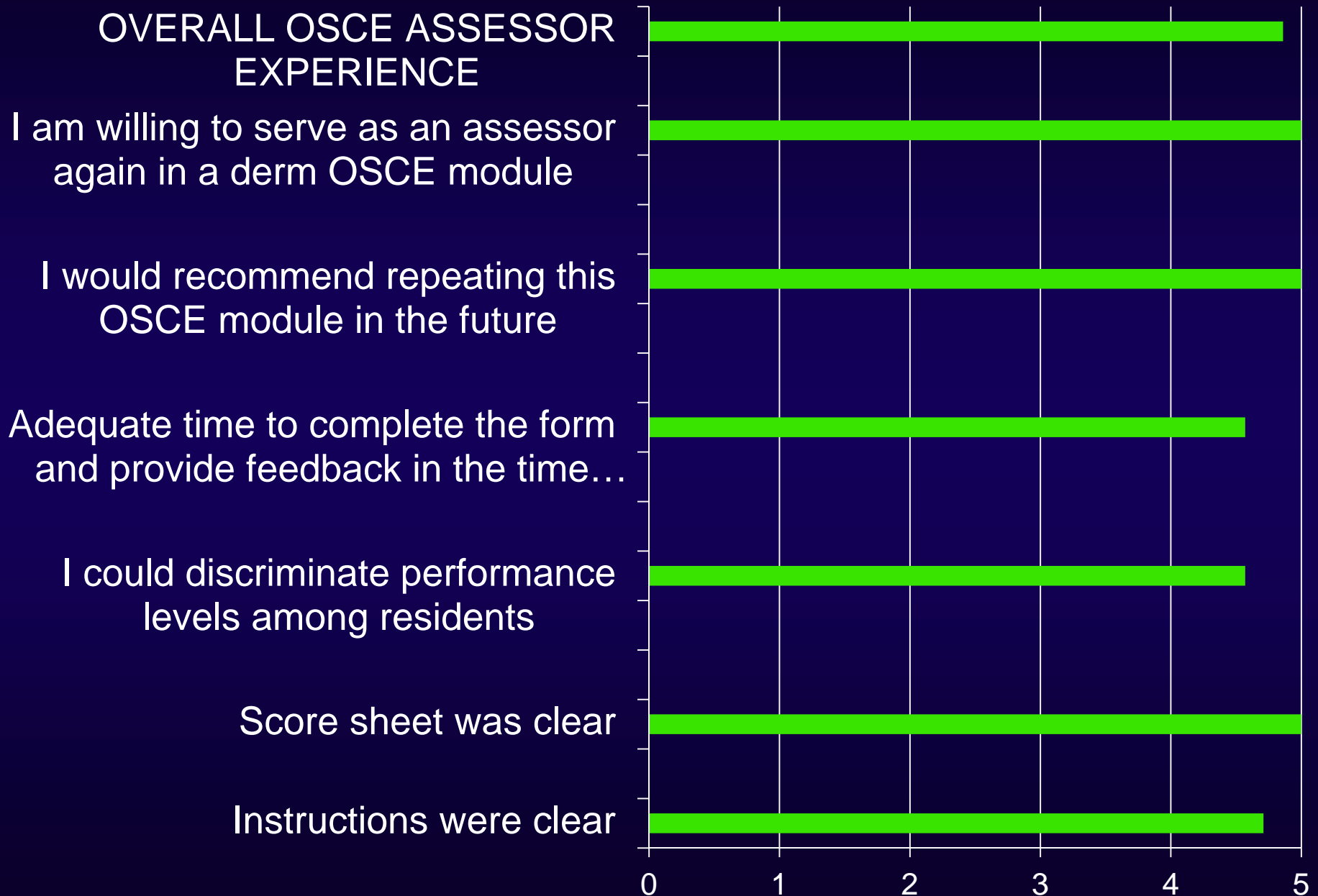
Average Score on Mega-OSCE by Year in Training, April 2016



Derm OSCE Performance by Year in Training April 2016



Average Assessor Score (5 = Highest, 0 = Lowest) n = 7



Resident assessment of MEGA-OSCE

3 areas of assessment:

- Score I received was Fair (5/5)
- Value of Feedback Received (5/5)
- Relevance of Exercise to Derm Practice
 - Only Dermpath unknowns did not receive 5/5 (4.83/5)

Next Steps

- Continue to add modules
- Disseminate module score sheets (APD web)
- Track individual growth over time rather than average by year
- Improve linkage to ACGME Milestones

Dermatology Resident OSCE: Isotretinoin Counseling

Learner Instructions:

You are seeing a 19 year-old female college student for initiation of **isotretinoin for acne**. You have completed your interview, exam and assessment. You recommend this patient receive oral isotretinoin and the patient would like to hear more about this option.

Your OSCE task is to provide the patient with appropriate isotretinoin counseling before moving forward with prescribing the medication. You will not be expected to complete paperwork at this time nor register the patient to take it. The focus of this OSCE is to discuss the expectations, side effects, and process of taking isotretinoin.

Note that your OSCE assessor will be serving in the role as the patient but may not be female and may not have the physical findings of acne when you enter the room. Treat the assessor as you would this 19 year-old female patient with scarring inflammatory acne, already failing current therapy with minocycline and topical retinoids.

Dermatology Resident OSCE: Isotretinoin Counseling

Assessor Instructions:

For this OSCE exercise you are portraying a 19 year-old **FEMALE** college student presenting in follow-up for initiation of **isotretinoin for acne**. The learner has already completed your interview, exam and assessment and is recommending you receive oral isotretinoin. You would like to hear more about this option.

Your OSCE assessment task is to listen carefully to the learner's isotretinoin counseling. The learner should talk with you about expectations, risks, side effects, monitoring, follow-up plans and other isotretinoin processes. The learner will not be completing i-Pledge registration, but should inform you about the i-Pledge process. The focus of this OSCE is to discuss the expectations, side effects, and process of taking isotretinoin.

Use the checklist provided to score the learner. Although not mandatory, you may check your boxes as the learner counsels you, but do not allow them to see the scoring boxes during the encounter.

Once the learner has finished counseling you, complete your scoresheet, including comments to help the learner improve their performance. You should use the last minutes of the OSCE session to

Dermatology Resident OSCE: Biopsy Site Wound Care

Resident: _____

Derm Yr: _____

Evaluator: _____

Date: _____

General Interpersonal and Communication Skills	Competent	Partially Competent, but needs work	Not at all competent
Interpersonally engaging, warm, puts those in room at ease	5	4 3 2 1	0
Using language appropriate for patients, avoids medical jargon	5	4 3 2 1	0
Easy to understand	5	4 3 2 1	0
Confidence, provides reassuring approach	5	4 3 2 1	0

Content Discussion	Competently discussed	Partially Discussed, needs work	Not discussed
Expectations for biopsy healing time	5	4 3 2 1	0
Wound Care Instructions <input type="checkbox"/> Length of time to leave initial bandage in place <input type="checkbox"/> Wound cleansing instructions <input type="checkbox"/> Ointment and bandage application <input type="checkbox"/> Frequency of wound care <input type="checkbox"/> Duration of wound care	5	4 3 2 1	0
Suture Care (if applicable) <input type="checkbox"/> Timing for suture removal <input type="checkbox"/> Instructions for home suture removal (if applicable)	5	4 3 2 1	0
Precautions <input type="checkbox"/> Signs of infection <input type="checkbox"/> Management of bleeding	5	4 3 2 1	0

Dermatology Resident OSCE: Electronic Health Record Navigation

Resident: _____

Derm Yr: _____

Evaluator: _____

Date: _____

When given a patient id, can you identify: General Navigation of Electronic Health Record	Competent	Partially competent, but needs work	Not at all Competent
Identification of Allergies <input type="checkbox"/> Launches correct application <input type="checkbox"/> Efficiently completes task	5	4 3 2 1	0
Laboratory Value Trends (launching relevant temporal graph) <input type="checkbox"/> Launches correct application <input type="checkbox"/> Identifies correct lab tab <input type="checkbox"/> Identifies table of similar labs <input type="checkbox"/> Graphs finding of interest <input type="checkbox"/> Interprets graph correctly	5	4 3 2 1	0
Medication Prescribing History and Drug-Drug Interactions <input type="checkbox"/> Launches correct application <input type="checkbox"/> Correctly identifies first prescribed <input type="checkbox"/> Launches application to identify list of Drug-Drug interactions <input type="checkbox"/> Correctly identifies if any drug-drug interactions	5	4 3 2 1	0
Identify Patient's Type of Insurance <input type="checkbox"/> Launches correct application <input type="checkbox"/> Correctly identifies patient's insurance, if any	5	4 3 2 1	0
Identify Patient's Contact Information	5	4 3 2 1	0

**Dermatology Resident OSCE:
LASER Calibration, Safety, and Initial Settings Selection**

Resident: _____ Derm Yr: _____

Evaluator: _____ Date: _____

LASER Assigned:	Competent	Partially competent, but needs work	Not at all Competent
Task Assigned:			
Selection of Appropriate Initial Settings	5	4 3 2 1	0
Settings Chosen for Task:			
Efficient Use of Touchscreen Panel to Adjust Settings	5	4 3 2 1	0
<input type="checkbox"/> Adjusts in Standby <input type="checkbox"/> Identifies correct settings to adjust <input type="checkbox"/> Calibrates before trying to operate after adjustments made			
Laser Safety	5	4 3 2 1	0
<input type="checkbox"/> Eye protection check <input type="checkbox"/> Standby vs Ready <input type="checkbox"/> Clean spacer pre and post <input type="checkbox"/> Smoke evacuator (when appropriate) <input type="checkbox"/> Skin preparation (topicals on skin, flammability, shaving, etc) <input type="checkbox"/> Reflective surfaces elimination			
Laser Operation	5	4 3 2 1	0
<input type="checkbox"/> Troubleshoots when necessary (Foot pedal vs Hand toggle, Standby vs. Ready) <input type="checkbox"/> Forewarns with countdown, checks patient tolerance			
LASER Counseling relevant to the task	Competently discussed	Discussed, needs work	Not discussed
Expectations during procedure (pain, light sensations)	5	4 3 2 1	0