ASCOFAME 2019

Formative OSCE: its role in Professionalism

Madalena Patricio













BEFORE STARTING

LAYOUT

- 1. Professionalism: definition and its importance
- 2. Is OSCE a good exam to assess professionalism
- 3. Implementation an OSCE in professionalism
- 4. OSCE potentialities vs. limitations
- 5. Final challenges

1 Professionalism: definition and its importance

- 2. Is OSCE a good exam to assess professionalism
- 3. OSCE Implementation in professionalism
- 4. OSCE potentialities and limitations
- 5. Final challenges

WHAT IS PROFESSIONALISM







WEB PAPER BEME GUIDE

Teaching professionalism in medical education: A Best Evidence Medical Education (BEME) systematic review. BEME Guide No. 25

HUDSON BIRDEN¹, NEL GLASS², IAN WILSON³, MICHELLE HARRISON⁴, TIM USHERWOOD⁴ &

Systematic Review, 2013

viewpoints and opinions as well as empirical research. We performed a comparative and thematic synthesis on all papers meeting inclusion criteria in order to capture the best available evidence on how to teach professionalism.

Results: We identified 217 papers on how to teach professionalism. Of these, we determined 43 to be best evidence. Few studies provided comprehensive evaluation or assessment data demonstrating success. As yet, there has not emerged a unifying theoretical or practical model to integrate the teaching of professionalism into the medical curriculum.

Discussion: Evident themes in the literature are that role modelling and personal reflections, ideally guided by faculty, are the important elements in current teaching programmes, and are widely held to be the most effective techniques for developing professionalism. While it is generally held that professionalism should be part of the whole of a medical curriculum, the specifics of sequence, depth, detail, and the nature of how to integrate professionalism with other curriculum elements remain matters of evolving theory.

There is **no best methods** for teaching professionalism, nor even on **how professionalism should be defined**

Evident themes in the literature are that role modelling and personal reflections, are the important elements in teaching

While it is accepted that professionalism should be part of the whole curriculum, the specifics of sequence, depth, detail and integration still need to be defined



National Institutes of Health

PubMed

Advanced

Format: Abstract - Send to -

Med Teach. 2014 Jan;36(1):47-61. doi: 10.3109/0142159X.2014.850154. Epub 2013 Nov 19.

Defining professionalism in medical education: a systematic review.

Birden H¹, Glass N, Wilson I, Harrison M, Usherwood T, Nass D.

Author information

Systematic Review, 2014

quality and included these in the narrative synthesis.

CONCLUSION: As yet there is no overarching conceptual context of medical professionalism that is universally agreed upon. The continually shifting nature of the organizational and social milieu in which medicine operates creates a dynamic situation where no definition has yet taken hold as definitive.

Comment in

de

MI or

General competences on medical professionalism: Is it possible? [Med Teach. 2015] Defining professionalism: Simplex sigillum veril [Med Teach. 2014]

Comments on "defining professionalism in medical education: a systematic review". [Med Teach, 2014]

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PLoS One. 2017; 12(5): e0177321.

PMCID: PMC5428933

D. I. I. I. P. 004714 40 1 1 40 40745 1 0477004

DIVID DOLOGOOD

Systematic Review, 2017

Honghe Li, 1 Ning Ding, #1 Yuanyuan Zhang, #2 Yang Liu, 3 and Deliang Wen 1,*

Gianni Virgili, Editor

Author information
 Article notes
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 Disclaimer

I PROPOSE WE USE THE AQU DEFINITION TO DEFINE PROFESSSIONALISM



Agència per a la Qualitat del Sistema Universitari de **Catalunya** Professionalism includes not only medical knowledge and skills, but also commitment to a set of shared values, autonomy for establish and enforce them and the responsibility to defend them.

KEY ELEMENTS OF PROFESSIONALISM

- A set of knowledge and skills
- Commitment to values
- Autonomy to implement them
- Responsibility to defend them

FOR THE PROFESSIONAL COMPETENCIES WE MAY USE AGAIN THE AQU LIST



Agència per a la Qualitat del Sistema Universitari de **Catalunya**



Professional competences of medical schools in Catal

DISSENY programme medicine UB, UAB, UdL and URV

2004







Agència per a la Qualitat del Sistema Universitari de Catalunya

Competències profession comunes dels llicenciats formats a les universitats

Grup de treball del programa [UB, UAB, UdL i URV

2004









GUÍA PARA LA EVALUACIÓN DE COMPETENCIAS EN **MEDICINA**



AQU PROFESSIONAL COMPETENCIES

The next 7 slides are not for reading in detail

Just to give an idea of the 13 Competencies defined by AQU which will be sent to you



1. Reconocimiento de los elementos esenciales de la profesión médica, incluyendo los principales de la profesión médica, incluyendo los esión...

- 1. Moral and ethical principles
- 2. Professional values

5.

- 3. Personal development
- 4. Improvement for patient benefit
- 5. Good patient-doctor relationship

de la relacion entre el medico, el paciente, los lamiliares y la comunidad, así como del respeto al bienestar del paciente, a la diversidad cultural, a las creencias y a su autonomía.

6. Habii 6. Moral judgement to decide conflicts 7. Continuous professional development 8. Respect for health professionals bn 9. Improvement for patient benefit S, 10. Good patient-doctor relationship

- 11. Manage time to cope with changes
- 12. Personal responsibility for patients
- 13. Research attitude for Medicine progress

AQU HAS DONE MORE AQU IDENTIFIED OTHER INITIATIVES TO DEFINE PROFESSIONAL COMPETENCES



Agència per a la Qualitat del Sistema Universitari de **Catalunya**

INITIATIVES TO DEFINE PROFESSIONAL COMPETENCIES

- BIUEPRINT, 1974
- AAMC Outcome Project, 1984, 2004, 2008
- Scottish Doctor, 2000
- CANMEDS Project, 2000
- Board of Higher Education Council Brazil, 2001
- AMFEM Catalog of learning outcomes, 2001

INITIATIVES TO DEFINE PROFESSIONAL COMPETENCIES

- Institute International Medical Education, 2002,
- Joint Commission of the Swiss Medical Schools, 2002
- Amee Guide 25, 2003
- Tomorrow's doctors, 2003
- WFME Standards Program, 2003
- Tuning America, 2004, 2007- 2008

INITIATIVES TO DEFINE PROFESSIONAL COMPETENCIES

- Sedem 2004, 2005, 2006
- ANECA, The white book, 2005, 2008
- Australian Medical Council, 2006
- MEDINE, WFME Standards Program for Europe, 2007
- IAMSE, WFME Standards Program for students, 2008
- LCMC, 2008

IS THE CONCEPT CLEAR FOR ALL OF US



'A picture is worth a thousand words'

Tess Flanders 1911

'If a picture worth a thousand words what's a video worth?'

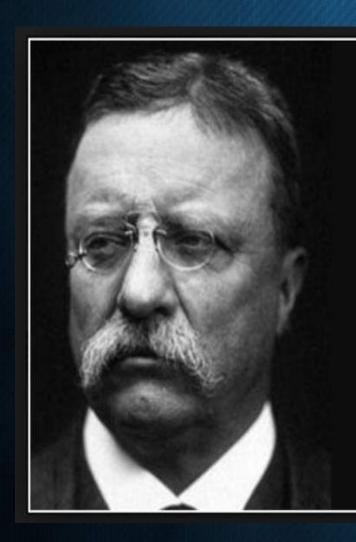


'The point made by Patch made the difference It's about professionalism'

PROFESSIONALISM IS OF FUNDAMENTAL IMPORTANCE



THEODORE ROOSEVELT WAS THE FIRST TO SAY



Nobody cares how much you know, until they know how much you care.

— Theodore Roosevett —

AZ QUOTES

We know that ...

SPECIAL ARTICLE

Unprofessional behavior during medical school has ben shown to indicate the incidence of subsequent disciplinary actions by US medical boards on doctors in practice

Article

Figures/Media

December ZZ, Z005

A good part of the reported medical errors are very related to a lack of professional values.

Students with professional values well - develop doctors committing fewer medical errors

- 1. Professionalism: definition and its importance
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IS OSCE A GOOD EXAM TO ASSESS PROFESSIONALISM



Criteria for good Assessment



Criteria for good assessment: Consensus statement and recommendations from the Ottawa 2010 Conference

JOHN NORCINI¹, BROWNELL ANDERSON² VALDES BOLLELA³ VANESSA BURCH⁴, MANUEL JOÃO COSTA⁵, ROBBERT HAYS⁸, ATHOL KENT⁹,

VANESSA PERROTT¹⁰ & TI

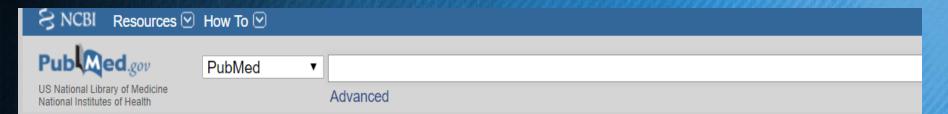
¹FAIMER, USA, ²AAMC, USA, Hospital, South Africa, ⁵Universe Examiners, USA, ⁸Keele University of Leeds, UK

2011

sity of Cape Town and Groote Schuur letherlands, ⁷National Board of Medical Jniversity of Cape Town, South Africa,

Abstract

In this article, we outline criteria for good assessment that include: (1) validity or coherence, (2) reproducibility or consistency,



Format: Abstract - Send to -

Med Teach. 2018 Oct 9:1-8. doi: 10.1080/0142159X.2018.1500016. [Epub ahead of print]

2018 Consensus framework for good assessment.

Norcini J¹, Anderson MB², Bollela V³, Burch V⁴, Costa MJ⁵, Duvivier R⁶, Hays R⁷, Palacios Mackay MF⁸, Roberts T⁹, Swanson D¹⁰.

Author information

Abstract

INTRODUCTION: In 2010, the Ottawa Corsince then the working group monitored to preparing similar criteria for systems of a and so the working group was reconvened.

METHODS: Consideration was given to v group believed that they were. Conseque the 2010 report.

UPDATE 2018

nt. These were well received and sideration be given in the future to be timely to undertake that task ion.

r single assessments and the and duplicate relevant portions of

RESULTS AND DISCUSSION: This paper also presents a new set of criteria that apply to systems of assessment and, recognizing the challenges of implementation, offers several issues for further consideration. Among these issues are the increasing diversity of candidates and programs, the importance of legal defensibility in high stakes assessments, globalization and the interest in portable recognition of medical training, and the interest among employers and patients in how medical education is delivered and how progression decisions are made.

- 1. Validity or Coherence
- 2. Reproducibility, Reliability, or Consistency
- 3. Equivalence
- 4. Feasibility
- 5. Educational Effect
- 6. Catalytic effect
- 7. Acceptability



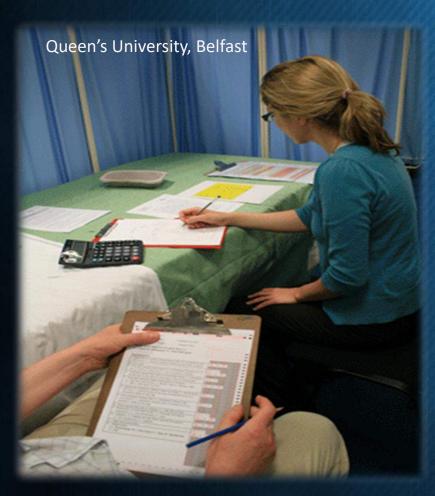
- 1. Fairness
- 2. Relevance
- 3. Satisfaction

IS OSCE MEETING THOSE CRITERIA



Independently of

USING A STRAIGHT-FORWARD STRUCTURE





OR A COMPLEX STRUCTURE



THE OSCE IS ALWAYS



An exam based on **stations**with all students under the **same**circumstances

Same TASKS

Same **PATIENTS**

Same **EXAMINERS**

A ROBUST EXAM VALID & RELIABLE

OSCE is Testing...

- Individual components of a competency
- Broad sample of competencies
- Process & product
- Knowledge, skills and attitudes

THE OSCE

Based on...

- Preset standards
- Validated checklists or global ratings
- Objective questions
- Standardized Patients (real or simulated)

EVIDENCE ON OSCE AS A FEASIBLE EXAM?

2013; 35: 503-514



Is the OSCE a feasible tool to assess

OSCE can assess all types of competencies namely the professional ones

Back

Ab

with arguments as 'why using such a demanding format if other methods are available?'

Aim: To review and synthesize evidence on technical and economic feasibility of OSCE in undergraduate medical studies.

Methods: Best Evidence Medical Education methodology was applied by two independent coders to 1083 studies identified

OSCE IS A PRACTICAL EXAM

OSCE can access students doing the:

- right professional competencies
- professional competencies done in the right way

WITH EDUCATIONAL & CATALYSTIC IMPACT

Evidence from the first OSCE Implemented in Dundee

Students only do what they know they are going to be assessed

Rowntree 1989

OSCE is meeting the good assessment criteria so it should be used to assess professional competencies

OSCE is meeting the good assessment criteria so it should be used to assess professional competencies



WEB PAPER AMEE GUIDE

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Integrating professionalism into the curriculum: AMEE Guide No. 61

The use of OSCE is suggested by AMEE Guide 61

Guide takes a structured stepwise approach and sequentially accresses. (*t*) agreeing an institutional definition, (*n*) structuring the curriculum to integrate learning across all years, (iii) suggesting learning models, (iv) harnessing the impact of the formal, informal and hidden curricula and (v) assessing the learning. Finally, a few well-evaluated case studies for both teaching and assessment

AMEE Guide 61 also in Spanish



Guía AMEE n.º 61 / AMEE Guide No. 61

Integrando el profesionalismo en el currículo
 Integrating Professionalism into the Curriculum
 Helen O'Sullivan, Walter van Mook, Ray Fewtrell, Val Wass



Fundación Educación Médica





VIGUERA

AMEE Guides in Medical Education

www.amee.org

OSCE AS MORE SUITABLE EXAM

In order to evaluate the competencies, what is lacking is the student to demonstrate the acquisition by means of corresponding realizations, and establishing practical evidence, especially with the OSCE, as the most suitable assessment procedure

- 1. Professionalism: definition and its importance
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- 5. Final challenges

WE NEED TO BLUE PRINT THE STATIONS

To define the content of each station

We need to be aware that

ACQUIRING PROFESSIONALISM





But a personal transformation It is the shaping of a moral identity

HERE IS AN EXAMPLE

OSCE Health Promotion Station

STATION 6 STUDENT BRIEF

At station 7 you will meet Mr David Bergmann and his wife.

He is being discharged from the hospital where he has been treated for a myocardial infarction. You can see the details of his presentation and management in his case notes.

When you meet him, advise him about his management following discharge from the hospital

WE CAN USE THE ABOVE AQUILIST TO DECIDE ON THE CONTENT OF THE STATIONS



WE CAN USE OTHER SOURCES TO DECIDE ON THE STATIONS

FOR EXAMPLE

Ronald M Harden Pat Lilley Madalena Patrício

THE DEFINITIVE GUIDE TO THE **OSCE**

The Objective Structured Clinical Examination as a performance assessment

A list of learning outcomes, including professional competences, successfully assessed by the OSCE, is available from this book

Published Reports of LO

Clinical Skills	381
Practical Procedures	95
Patient Investigation	107
Patient Management	152
Health Promotion & Disease Prevention	43
Communication	275
Information Handling	31
Understanding of Basic & Clinical Sciences	56
Attitudes & Ethics	72
Decision Making/Clinical Reasoning	102
Role of the Doctor	2
Personal Development	7

15 CASE STUDIES ARE AVAILABLE FROM THE BOOK

Ronald M Harden Pat Lilley Madalena Patrício

THE DEFINITIVE GUIDE

CASE STUDY 6

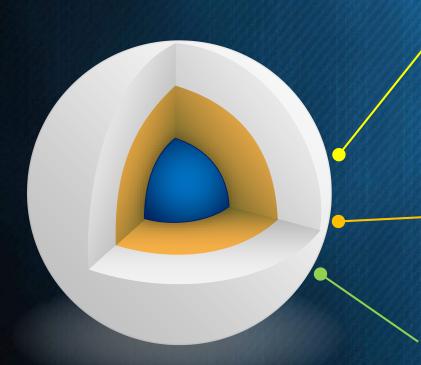
Culture OSCE for Paediatric Residents

Elisabeth K. Kachur et al.



After station content is defined we may adapt
the Harden's model
for Outcome Based Education

Outcome-Based Education



Doing the right thing

What the doctor is able to do

- •Clinical skills
- Practical procedures
- Investigations
- Patient management
- Health promotionCommunication
- Information handling

Doing the thing right

How doctor approaches their practice

- Scientific understandingAttitudes & ethics
- Decision making

The right person doing it

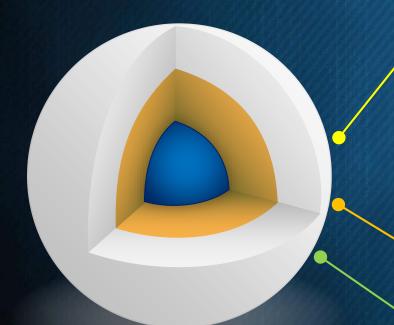
The doctor as a professional

- Role of the doctorPersonal development



Outcome-Based Professional Competencies

Doing the right thing



The right person doing it

The doctor as a professional

- Role of the doctorPersonal development

What the doctor is able to do

- apply moral & ethical principles
- respect professional values
- self professional development
- protecting patients and society
- mutual understanding
- apply moral principles in conflicts
- self assessment of CPD
- respect other professionals
- obligation for applying palliative care
 information legal aspects
- coping with incertitude and changes
- personal responsibility for care
- continuous research attitude

Doing the thing right

How doctor approaches their practice

- Scientific understandingAttitudes & ethics
- Decision making



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POTENTIALITES

THE OSCE IS MEETING THE GOOD ASSESSMENT CRITERIA

- Feasible exam
- Robust exam
- Practical exam
- Providing feedback





The OSCE is an ideal exam for giving detailed feedback to students which is of fundamental importance in what concerns professionalism



The possibility for providing feedback makes the OSCE and ideal formative exam

The flexibility of the OSCE allows teachers to design stations based in role play, which according to BEME GUIDE 25 is a key element

This is the value of the OSCE From here we understand why ...

IN 2002 NORMAN STATED



'The objective structured clinical examination, with its multiple samples of performance has come to dominate performance assessment.'

Learning in practice

Research in medical education: three decades of progress

Geoff Norman

The specialty of research in medical education began just over three decades ago with a small group of clinicians and educational researchers at the medical school in Buffalo, New York. Since that time it has expanded worldwide. This paper is a personal reflection on how this research has informed our understanding of learning, teaching, and assessment in medicine.

Measuring progress

In medicine, indicators of scientific progress might be measured by objective indicators such as death from cardiovascular disease. In education such "hard" evidence may be lacking for several reasons. Firstly, paradoxically, real differences in educational strategies may not be reflected in outcomes, such as licensing examination performance, simply because students are highly motivated and are not blinded to the intervention, so will compensate for any defects in the curriculum. **Secondly, a curriculum is not like a drug, which can be given at standard doses, but instead contains many components, delivered with variable quality by different teachers. Finally, the time between learning and important outcomes may be so

Summary points

Research in medical education has contributed substantially to understanding the learning process

The educational community is becoming aware of the importance of evidence in educational decision making

Areas of major development include basic research on the nature of medical expertise, problem based learning, performance assessment, and continuing education and assessment of practising physicians

clinicians were distinguished by the possession of general "clinical problem solving" skills. This was wrong; what emerged was that expertise lay predominantly in the knowledge, both formal and experiential, that the expert brought to the problem? 8

THIS WAS WHY THE OSCE WAS CALLED

A GOLD STANDARD EXAM

LIMITATIONS

DESPITE BEING A GOLD STAR EXAM

The OSCE is not a holistic exam

It should be used with other exams

'A single measure is no measure'



DESPITE BEING A GOLD STAR EXAM

The OSCE is a resource demanding exam

Requiring high human and financial resources

There is evidence that all those aspects can be overcome

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Professionalism is of utmost importance because

FOR A GLOBAL PROFESSIONAL WE NEED A GLOBAL CURRICULUM

Sound KNOWLEDGE of global issues SKILLS for working in an international context

for a global citizen

.... AND A GLOBAL ASSESSMENT

WHAT we assess

HOW we assess

WHO will assess

All are measures of WHAT WE VALUE in terms of Professionalism for tomorrow's doctors

This is why the decisions on the OSCE design are so important

The Professionalism curriculum and its assessment cannot be implemented in isolation

Professionalism teaching and assessment should be embedded in entire curriculum

Besides the 'curriculum in paper' and the 'hidden curriculum', there is the 'curriculum in action' where the way teachers treat their students is fundamental

Today's n

al students

DOCTORS OF FUTURE



Autumn Assembly 2015

This was what I learned from EMSA Autumn Assembly, Berlin 2015



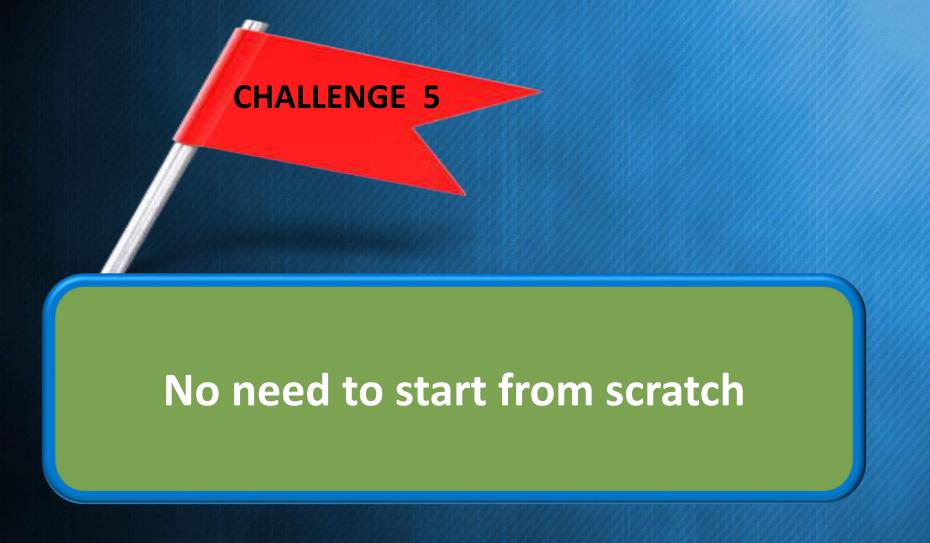


Moving to assess Professionalism with the OSCE needs TIME





To change a culture takes time



Look at what others have done, to be adapted to your context

The OSCE implementation should occur in COLLABORATION



Make the OSCE your process and your students' process
Fall in love with this huge challenge



Ownership / Passion

WHAT WE VALUE

NOT IN ISOLATION

NEW CULTURE

TIME

COLABORATION

OWNERSHIP / PASSION

Before concluding ...

LET ME BEBACK TO THE TITLE I WAS GIVEN

Formative OSCE: its role in professionalism '

Why only Formative OSCEs?

What do we miss if not using a Summative OSCE to assess professionalism?

THIS IS WHY I PROPOSE

Formative and Summative OSCEs: their role in professionalism '

THIS IS WHY I HOPE



YOU GO back to your schools and start working on the OSCE to assess Professionalism

From my side I will send you the supportive material used to prepare this presentation.

Please keep in touch to let me know your results in this so important area

Thanks so much ... Muchas gracias Muito obrigado

Thanks also to Prof. Maria Rosa Fenoll-Brunet for her collaboration in what concerns AQU



patricio@medicina.ulisboa.pt













The importance of instilling and protecting the development of qualities, values, attitudes and personal behaviors.

Professional development is key to the practice of medicine

Not only must learning and teaching be carefully constructed, but also the assessment of professional competencies

The measurement of outcomes continues to be a difficult task