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An interventional study investigating the effect of video feedback by the Mini-Clinical Evaluation Exercise (Mini-CEX) method compared to conventional directly observed feedback method by Mini-Clinical Evaluation Exercise (Mini-CEX) on final year medical (Internship Year) students' clinical competence at Shiraz University of Medical Sciences, Iran

Submission date
16/02/2022

Recruitment status
No longer recruiting

Registration date
16/02/2022

Overall study status
Completed

Last Edited
17/02/2022

Condition category
Other

[ ] Prospectively registered
[ ] Protocol
[ ] Statistical analysis plan
[ ] Results
[ ] Individual participant data
[ ] Record updated in last year

Plain English summary of protocol

Background and study aims
Video feedback (VF) patient encounter is a new approach that has been developed that involves videotaping doctor-patient consultations and an assessor watching the consultation and providing feedback. The aim of this study is to evaluate the effect of the Mini-Clinical Evaluation Exercise (Mini-CEX) by video feedback method on the clinical competency of final year medical (internship year) students at the Shiraz University of Medical Sciences, Iran.

Who can participate?
Medical internship year students at the Shiraz University of Medical Sciences

What does the study involve?
The participants are assessed using a checklist in order to measure their clinical competency. They are randomly allocated to two groups, a control group who undergo traditional directly observed Mini-CEX feedback and an intervention group who undergo video Mini-CEX feedback. Following the participation of interns in the feedback workshops, their clinical competency is assessed again.

What are the possible benefits and risks of participating?
Participating students will have an opportunity to improve their clinical and communications skills. Possible risks to participants are minimal. Participants may feel anxiety and stress during

the assessment process. This is minimized by explaining that these assessments are for research purposes only and that assessment scores and identifying information will be kept confidential.

Where is the study run from?
Shiraz University of Medical Sciences (Iran)

When is the study starting and how long is it expected to run for?
October 2020 to January 2022

Who is funding the study?
Shiraz University of Medical Sciences (Iran)

Who is the main contact?
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Additional identifiers

Protocol serial number
1234

Study information

Scientific Title
The effect of video feedback by the mini-clinical evaluation exercise (Mini-CEX) method compared to conventional methods by mini-clinical evaluation exercise (Mini-CEX) on medical interns' clinical competence at Shiraz University of Medical Sciences, Iran

Study objectives
1. There is no statistically significant difference between the OSLER 1 results of interns who have undergone video feedback compared to traditional feedback.
2. There is a statistically significant difference between the OSLER 2 results of the video feedback group compared to the traditional feedback group.
3. There is a statistically significant difference between the OSLER 1 and OSLER 2 results of both the video feedback group and traditional feedback group.

Ethics approval required
Old ethics approval format

Ethics approval(s)
Approved 23/02/2021, Ethics Committee in Research Shiraz University of Medical Sciences (Zand Avenue, Shiraz, 12365, Iran; +98 (0)7132305410; info@sums.ac.ir), ref: IR.SUMS.REC.1399.619

Primary study design
Interventional

Study design
Double-blind randomized controlled interventional trial

Study type(s)
Other

Health condition(s) or problem(s) studied
Medical education - clinical skills and communication skills clinical competency

Interventions
Our study is a prospective randomized, controlled double-blinded interventional study that involves a total of 40 interns of Shiraz University of Medical Sciences. The 40 participants were randomly allocated to two equal groups of 20 students each, a control group who underwent traditional feedback and an intervention group who underwent video feedback. Random allocation was ensured by writing each participant's name in a sealed envelope and then randomly assigning participants to each of the study groups. The 40 participants were then assessed using an objective structured long examination record (OSLER) checklist in order to ascertain baseline clinical competency (OSLER1). Subsequently, following the participation of interns in the feedback workshops, a post-intervention assessment of clinical competency was undertaken (OSLER 2). The results prior to feedback (OSLER1) were compared to the OSLER checklist scores following feedback (OSLER 2). The OSLER checklist based on a questionnaire of 10 faculty members of the Shiraz University of Medical Sciences (clinical faculty members) and staff in the Educational Development Center of Shiraz University of Medical Sciences has been determined to have a content validity index (CVI) of 100% and a CVR of 93%.

Intervention Type
Behavioural

Primary outcome(s)
Clinical competency measured using the objective structured long examination record (OSLER) checklist score at baseline and 4 weeks

Key secondary outcome(s)
There are no secondary outcome measures

Completion date
18/01/2022

Eligibility

Key inclusion criteria
Medical internship students' currently undergoing a 1-month rotation/attachment to the Family Medicine Department of Shiraz University of Medical Sciences

Participant type(s)
Other

Healthy volunteers allowed
No

Age group
Adult

Sex
All

Total final enrolment
40

Key exclusion criteria
Medical internship students who have previously undergone any previous 1-month rotation /attachment to the Family Medicine Department of Shiraz University of Medical Sciences

Date of first enrolment
21/04/2021

Date of final enrolment
22/05/2021

Locations

Countries of recruitment
Iran

Study participating centre
Family Medicine Clinic, Rasool Azam Clinic
Rasool Azam Boulevard
Shiraz
Iran
12334

Sponsor information

Organisation
Shiraz University of Medical Sciences

ROR
https://ror.org/01n3s4692

Funder(s)

Funder type
University/education

Funder Name
Shiraz University of Medical Sciences

Alternative Name(s)
SUMS

Funding Body Type

Government organisation

Funding Body Subtype
Local government

Location
Iran

Results and Publications

Individual participant data (IPD) sharing plan
The datasets used and/or analysed during the current study are not publicly available due to restrictions, but are available from Dr Kaveh Taghipour (kaveh109@hotmail.com) on reasonable request and with the permission of Shiraz University of Medical Sciences

IPD sharing plan summary
Not expected to be made available