Clinical Trial Protocol
Iranian Registry of Clinical Trials

08 Nov 2026

Evaluation of the effect of an educational intervention on the knowledge and attitude of intern students of Shiraz Dental School regarding Human Papillomavirus (HPV)-related lesions, transmission methods, and vaccination conditions in 2025-2026

Protocol summary

Study aim
Change in the mean knowledge and attitude scores of Shiraz dental intern students regarding HPV-related lesions, transmission methods, and vaccination, measured by questionnaire before and after the educational intervention.

Design
This is a quasi-experimental, single-group, pre-test/post-test (before-after) interventional study.

Settings and conduct
This quasi-experimental (pre-post) study will be conducted on intern students at Shiraz Dental School in 2025-2026]. After obtaining written consent [cite: 257][cite_start], a pre-test questionnaire (assessing knowledge and attitude) will be completed in person. Then, the educational intervention, consisting of a multimedia file (slides and images), will be provided. One week after the intervention, the post-test questionnaire will be completed again.

Participants/Inclusion and exclusion criteria
Participants are all currently enrolled male and female intern students at Shiraz Dental School during the 2025-2026 academic year. Inclusion criteria include providing written informed consent to participate and complete completion of the questionnaire. Exclusion criteria include lack of cooperation during the study or failure to complete the questionnaires in the pre- or post-intervention stages.

Intervention groups
This is a single-group study. The intervention group receives an educational multimedia file. This file includes slides containing up-to-date scientific information, relevant images, and effective protocols regarding knowledge and attitude towards the HPV virus.

Main outcome variables
The primary outcome is the change in the mean knowledge score of intern students regarding HPV-related lesions, transmission methods, and vaccination.

General information

Reason for update

Acronym
HPV

IRCT registration information
IRCT registration number: **IRCT20251112067971N1**
Registration date: **2025-11-14, 1404/08/23**
Registration timing: **retrospective**

Last update: **2025-11-14, 1404/08/23**
Update count: **0**

Registration date
2025-11-14, 1404/08/23

Registrant information

Name
Maryam Bakhtiar

Name of organization / entity

Country
Iran (Islamic Republic of)

Phone
+98 917 736 5789

Email address
bakhtiar@sums.ac.ir

Recruitment status
Recruitment complete

Funding source

Expected recruitment start date
2025-10-02, 1404/07/10

Expected recruitment end date
2025-10-09, 1404/07/17

Actual recruitment start date
2025-10-02, 1404/07/10
Actual recruitment end date
2025-10-10, 1404/07/18
Trial completion date
empty

Scientific title
Evaluation of the effect of an educational intervention on the knowledge and attitude of intern students of Shiraz Dental School regarding Human Papillomavirus (HPV)-related lesions, transmission methods, and vaccination conditions in 2025-2026

Public title
Effect of education on knowledge and attitude of dental students regarding HPV virus
Purpose
Education/Guidance
Inclusion/Exclusion criteria
Inclusion criteria:
Written informed consent to participate in the study Currently enrolled intern students Complete completion of the questionnaire
Exclusion criteria:
Lack of cooperation during the study Failure to complete the questionnaires in the pre- and post-intervention stages
Age
No age limit
Gender
Both

Phase
N/A
Groups that have been masked
No information
Sample size
Target sample size: **35**
Actual sample size reached: **35**
Randomization (investigator's opinion)
Not randomized
Randomization description
Blinding (investigator's opinion)
Not blinded
Blinding description
Placebo
Not used
Assignment
Single
Other design features
This is a single-group, pre-test/post-test, quasi-experimental interventional study.

Secondary Ids

empty

Ethics committees

1

Ethics committee
Name of ethics committee
Ethics committee of Shiraz University of Medical Sciences
Street address
Dentistry School, Mehr Blvd, Ghasrodasht Aven.
City
Shiraz
Province
Fars
Postal code
1411171546
Approval date
2025-11-05, 1404/08/14
Ethics committee reference number
IR.SUMS.DENTAL.REC.1404.058

Health conditions studied

1

Description of health condition studied
Knowledge and Attitude regarding Human Papillomavirus
ICD-10 code
ICD-10 code description

Primary outcomes

1

Description
Assessment of the knowledge level of intern students regarding HPV-related lesions, transmission methods, and vaccination conditions.
Timepoint
At two time points: 1) Before the educational intervention (pre-test) and 2) One week after the completion of the intervention (post-test).
Method of measurement
Using the knowledge section of a pre-fabricated questionnaire, which includes 36 questions in a True, False, or Don't Know format.

Secondary outcomes

empty

Intervention groups

1

Description
Intervention group: Providing an educational multimedia file, including slides with up-to-date scientific information, relevant images, and effective protocols regarding knowledge and attitude towards the HPV virus.
Category
Behavior

Recruitment centers

1

Recruitment center

Name of recruitment center
Shiraz University of Medical Sciences, Shool of Dentistry, Intern Students

Full name of responsible person
Dr. Azita Sadeghzadeh

Street address
Shool of Dentistry, Shiraz University of Medical Sciences, Mehr Blvd, Ghasrodasht Aven.

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dental@sums.ac.ir

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Shiraz University of Medical Sciences

Full name of responsible person
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Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?
Yes

Title of funding source
Shiraz University of Medical Sciences

Proportion provided by this source
100

Public or private sector
Public

Domestic or foreign origin
Domestic

Category of foreign source of funding
empty

Country of origin

Type of organization providing the funding
Academic

Person responsible for general inquiries

Contact

Name of organization / entity
Shiraz University of Medical Sciences

Full name of responsible person
Dr. Azita Sadeghzadeh

Position
Assistant Professor

Latest degree
Specialist

Other areas of specialty/work
Dentistry

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Person responsible for scientific inquiries

Contact

Name of organization / entity
Shiraz University of Medical Sciences

Full name of responsible person
Amir Hossein Shariatkhah

Position
Dentistry Intern

Latest degree
Medical doctor

Other areas of specialty/work
Dentistry

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Person responsible for updating data

Contact

Name of organization / entity
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Amir Hossein Shariatkhah

Position
Dentistry Intern

Latest degree
Medical doctor
Other areas of specialty/work
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Sharing plan

Deidentified Individual Participant Data Set (IPD)
Yes - There is a plan to make this available
Study Protocol
Yes - There is a plan to make this available
Statistical Analysis Plan
Yes - There is a plan to make this available
Informed Consent Form
No - There is not a plan to make this available
Clinical Study Report
Not applicable
Analytic Code
Not applicable
Data Dictionary
Not applicable
Title and more details about the data/document
Anonymized raw data of participants, including pre- and post-intervention knowledge and attitude scores, will be shared.
When the data will become available and for how long
Data will be available 6 months after the thesis defense and/or publication of the first article from the study, and will remain available for 5 years.
To whom data/document is available
All interested researchers, after sending a reasonable request and a short proposal to the corresponding author (a-sadeghzade@sums.ac.ir) and upon its approval, provided that participant confidentiality is maintained.
Under which criteria data/document could be used
Data will be usable only for scientific research purposes (e.g., meta-analysis or verification of results) and for non-commercial purposes. Use of data is conditional upon maintaining complete participant confidentiality and anonymity, and adhering to ethical research principles.
From where data/document is obtainable
Researchers can contact the corresponding author, Dr. Azita Sadeghzade, via email a-sadeghzade@sums.ac.ir
What processes are involved for a request to access data/document
The requester must submit a brief written proposal via email to the corresponding author, detailing the objectives and statistical analysis plan. After review and approval by the principal investigator, the anonymized data will be sent via a secure channel.
Comments