Clinical Trial Protocol
Iranian Registry of Clinical Trials

08 Nov 2026

The impact of adulthood booster dose of Hepatitis B vaccine on antibody response in medical and nursing students of Qazvin University of Medical Sciences: a before-after study.

Protocol summary

Summary
The aim of this research is the investigation of the efficacy of adulthood booster dose of hepatitis B vaccine on HBs antibody titer in participants who had vaccinated in childhood. In this interventional study, the titer of HBs antibody in medical and nursing students of Qazvin university will be checked by ELISA method before entering to hospital wards. Students with a diagnosis of hepatitis B and students with a previous history of booster dose vaccination will be excluded from the study. The sample size in the first period of the study is 200 students. Then in 120 students with an antibody titer less than 10 Units/L, an intramuscular booster dose of 20 µg recombinant hepatitis B vaccine (Euvax B, LG corporations, South Korea) will be injected and after a month, the HBs antibody titer will be checked by ELISA method. This is a “before-after” study and has not a control group. Main outcome measures are HBs antibody titer as the primary outcome variable and adverse reactions to vaccination as secondary outcome variable.

General information

Acronym
IRCT registration information
IRCT registration number: **IRCT201510142276N3**
Registration date: **2015-11-22, 1394/09/01**
Registration timing: **registered_while_recruiting**

Last update:
Update count: **0**

Registration date
2015-11-22, 1394/09/01

Registrant information

Name
Behzad Bijani
Name of organization / entity
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Recruitment status
Recruitment complete
Funding source
Qazvin University of Medical sciences

Expected recruitment start date
2015-11-22, 1394/09/01
Expected recruitment end date
2016-03-20, 1395/01/01
Actual recruitment start date
empty
Actual recruitment end date
empty
Trial completion date
empty

Scientific title
The impact of adulthood booster dose of Hepatitis B vaccine on antibody response in medical and nursing students of Qazvin University of Medical Sciences: a before-after study.

Public title
The impact of adulthood booster dose of Hepatitis B vaccine on antibody response in students
Purpose
Health service research
Inclusion/Exclusion criteria
Inclusion criteria: medical or nursing student before entering the clinical wards. Exclusion criteria: students with chronic hepatitis B; students with previous history of

booster vaccination

Age
From **18 years** old to **30 years** old

Gender
Both

Phase
N/A

Groups that have been masked
No information

Sample size
Target sample size: **120**

Randomization (investigator's opinion)
N/A

Randomization description

Blinding (investigator's opinion)
Not blinded

Blinding description

Placebo
Not used

Assignment
Single

Other design features

Secondary Ids

empty

Ethics committees

1

Ethics committee

Name of ethics committee
Ethics committee of Qazvin University of Medical Sciences

Street address
No. 5, Bahonar Blvd, Qazvin University of Medical Sciences

City
Qazvin

Postal code

Approval date
2015-09-30, 1394/07/08

Ethics committee reference number
IR.QUMS.REC.1394.120

Health conditions studied

1

Description of health condition studied
Hepatitis B

ICD-10 code
B18.1

ICD-10 code description
Chronic (viral) hepatitis B

Primary outcomes

1

Description
Anti HBS antibody titer

Timepoint
One month after vaccination

Method of measurement
Serology (ELISA)

Secondary outcomes

1

Description
Vaccination side effects

Timepoint
During a month period after vaccination

Method of measurement
Participants' report

Intervention groups

1

Description
Single dose intramuscular injection of 20 microgram of recombinant hepatitis B vaccine (Euvax B, LG corporations, South Korea)

Category
Prevention

Recruitment centers

1

Recruitment center

Name of recruitment center
Infectious diseases ward, Bualisina Hospital

Full name of responsible person
Behzad Bijani

Street address
No. 112, Buali St

City
Qazvin

Sponsors / Funding sources

1

Sponsor

Name of organization / entity
Vice Chancellor for Research, Qazvin University of Medical Sciences

Full name of responsible person
Dr Taghi Naserpour

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No. 15, Shahid Bahonar Blvd, Vice Chancellor for Research, Qazvin University of Medical Sciences

City
Qazvin

Grant name

Grant code / Reference number

Is the source of funding the same sponsor organization/entity?
Yes
Title of funding source
Vice Chancellor for Research, Qazvin University of Medical Sciences
Proportion provided by this source
100
Public or private sector
empty
Domestic or foreign origin
empty
Category of foreign source of funding
empty
Country of origin
Type of organization providing the funding
empty

Person responsible for general inquiries

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Sharing plan

Deidentified Individual Participant Data Set (IPD)
empty
Study Protocol
empty
Statistical Analysis Plan
empty
Informed Consent Form
empty
Clinical Study Report
empty
Analytic Code
empty
Data Dictionary
empty