Response to routine immunisations in human immunodeficiency virus (HIV) infected adults

Submission date 22/01/2011	Recruitment status No longer recruiting	Prospectively registeredProtocol
Registration date	Overall study status Completed	Statistical analysis planResults
Last Edited 18/11/2016	Condition category Infections and Infestations	Individual participant dataRecord updated in last year

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

Contact name

Dr Calman MacLennan

Contact details

MRC Centre for Immune Regulation
Institute of Biomedical Research
School of Immunity and Infection
College of Medicine and Dental Sciences
University of Birmingham
Edgabston
Birmingham
United Kingdom
B15 2TT

Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers

RG 09-034

Study information

Scientific Title

Response to routine immunisations in human immunodeficiency virus (HIV) infected adults: a cross-sectional cohort study

Acronym

AIR Study

Study objectives

The aim of this study is to investigate the level and duration of response to routine vaccinations in human immunodeficiency virus (HIV) infected adults compared with uninfected adults and how this relates to the function of the immune system in these individuals.

Ethics approval required

Old ethics approval format

Ethics approval(s)

National Research Ethics Committee - North Staffordshire Research Ethics Committee, 10/07/2009, ref: 09/H1204/53

Study design

Cross-sectional cohort study

Primary study design

Observational

Secondary study design

Cross-section survey

Study setting(s)

Hospital

Study type(s)

Treatment

Participant information sheet

Not available in web format, please contact c.maclennan@bham.ac.uk to request a patient information sheet

Health condition(s) or problem(s) studied

Human immunodeficiency virus (HIV) infection

Interventions

Nationally-recommended immunisation against vaccine-preventable diseases for HIV-infected adults.

Cases:

At recruitment Pneumococcal, Men C, Hib, HepB, HepA and TetDipIPV vaccinations, depending on previous vaccination history and psychosocial factors questionnaire. Annual influenza

vaccination. Vaccination response assessed by antibody titres. Booster vaccinations offered in case of sub-optimal response.

Controls:

As for cases, but no psychosocial factors questionnaire.

Duration of treatment and follow up (both arms): five years.

Intervention Type

Other

Phase

Not Applicable

Primary outcome measure

Proportion of HIV-infected patients producing a response to Haemophilus influenzae type b conjugate vaccination of 1.0 ug per ml anti-polyribosyl phosphate antibodies (considered protective levels) at 1 month post-vaccination compared with HIV-uninfected control subjects.

Acute vaccination responses measured at baseline and one month post-vaccination with clinical laboratory serological assays for antibody titres.

Secondary outcome measures

- 1. Level of immune response to each vaccination at 1 month post-vaccination in study participants compared with control group and correlation of immune response to degree of immune suppression of each participant gauged by CD4 count
- 2. Duration of immune response to each vaccination through course of study
- 3. Correlation of immune response to psychosocial factors
- 4. Occurrence of any vaccine-preventable diseases during the course of the study

Acute vaccination responses measured at baseline and one month post-vaccination with clinical laboratory serological assays for antibody titres. Duration of immune response measured at four-monthly clinic visits (cases) and annual appointments (controls) over 5 year duration of study. Psychosocial factors measured at baseline and four months via a patient questionnaire. Vaccine-preventable disease occurrence measured through continuous follow in outpatient clinic over 5 year duration of study.

Overall study start date

24/09/2009

Completion date

24/09/2014

Eligibility

Key inclusion criteria

- 1. Aged over 18 years old, either sex
- 2. Informed consent given
- 3. Participant cases: proven HIV infection
- 4. Participant controls: proven absence of HIV-infection

Participant type(s)

Patient

Age group

Adult

Lower age limit

18 Years

Sex

Both

Target number of participants

Participant cases: 1000; participant controls: 115

Key exclusion criteria

- 1. Under 18 years of age
- 2. Informed consent withheld
- 3. HIV-status unknown

Date of first enrolment

24/09/2009

Date of final enrolment

24/09/2014

Locations

Countries of recruitment

England

United Kingdom

Study participating centre MRC Centre for Immune Regulation

Birmingham United Kingdom B15 2TT

Sponsor information

Organisation

University of Birmingham (UK)

Sponsor details

Research and Commercial Services Edgbaston Birmingham England United Kingdom B15 2TT

Sponsor type

University/education

Website

http://www.birmingham.ac.uk/index.aspx

ROR

https://ror.org/03angcq70

Funder(s)

Funder type

University/education

Funder Name

University of Birmingham (UK) - Clinical Immunology Service and University Hospital Birmingham Adult HIV Service

Results and Publications

Publication and dissemination plan

Not provided at time of registration

Intention to publish date

Individual participant data (IPD) sharing plan

IPD sharing plan summary

Not provided at time of registration