Pharmacogenetics of human immunodeficiency virus therapy

Submission date	Recruitment status No longer recruiting	Prospectively registered			
28/05/2010		☐ Protocol			
Registration date	Overall study status Completed	Statistical analysis plan			
28/05/2010		[X] Results			
Last Edited	Condition category	Individual participant data			
21/01/2019	Infections and Infestations				

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

Contact name

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Additional identifiers

Protocol serial number

7342

Study information

Scientific Title

Host genetic factors influencing drug disposition and response to human immunodeficiency virus treatment

Study objectives

This is a study to investigate the association between genetic polymorphisms and:

- 1. Treatment response (viral load and CD4 count), or
- 2. Drug exposure in human immunodeficiency virus (HIV) positive patients

The cohort study examines treatment response after starting or switching antiretroviral therapy (ART) regimen according to genotype. There is also a cross-sectional study where the primary endpoint is the measured concentration of antiviral drug. The relationship between drug exposure and genetic polymorphism will also be examined.

More details can be found here: http://public.ukcrn.org.uk/Search/StudyDetail.aspx? StudyID=7342

Ethics approval required

Old ethics approval format

Ethics approval(s)

North West MREC (now changed to North West 5 Research Ethics Committee), 07/11/2003, ref: 02/8/87

Study design

Multicentre non-randomised observational treatment cohort study

Primary study design

Observational

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Topic: Infection; Subtopic: Infection (all Subtopics); Disease: Infectious diseases and microbiology

Interventions

Study A:

This study is examining treatment response after starting or switching antiretroviral therapy according to genotype with the primary endpoint of a change in CD4 count and viral load at 24 weeks.

Study B:

This study involves obtaining a single blood sample in which drug concentrations will be measured. The primary endpoint is the measurement of the antiretroviral drug.

Genomic DNA will be purified and quantified from both studies. Genetic polymorphisms will be defined by PCR-RFLP, sequence-specific PCR or SNaPshot as optimised for each allele to be examined.

Intervention Type

Other

Phase

Phase IV

Primary outcome(s)

Change in CD4 count and viral load, measured at 24 weeks, with secondary endpoints of viral load at 12 weeks and time to/proportion achieving undetectable viral load

Key secondary outcome(s))

- 1. Change in viral load at 12 weeks
- 2. Time to/proportion achieving undetectable viral load

Completion date

31/12/2012

Eligibility

Key inclusion criteria

Study A:

Recruitment from existing cohort studies

Study B:

- 1. Aged greater than 18 years
- 2. Know HIV-seropositive
- 3. Receiving antiretroviral therapy
- 4. Having drug concentration measured

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

18 years

Sex

All

Key exclusion criteria

Study A:

Recruitment from existing cohort studies

Study B:

- 1. Aged less than 18 years
- 2. Not on antiretroviral therapy

Date of first enrolment

24/04/2007

Date of final enrolment

31/12/2012

Locations

Countries of recruitment

United Kingdom

England

Study participating centre Royal Liverpool Hospital

Liverpool United Kingdom L69 3GA

Sponsor information

Organisation

University of Liverpool (UK)

Organisation

Royal Liverpool and Broadgreen University Hospitals NHS Trust (UK)

Organisation

University of Liverpool

ROR

https://ror.org/04xs57h96

Funder(s)

Funder type

Research council

Funder Name

Medical Research Council (MRC) (UK)

Alternative Name(s)

Medical Research Council (United Kingdom), UK Medical Research Council, MRC

Funding Body Type

Government organisation

Funding Body Subtype

National government

Location

United Kingdom

Results and Publications

Individual participant data (IPD) sharing plan

IPD sharing plan summary

Not provided at time of registration

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient- facing?
Results article	results	01/11 /2008	21/01 /2019	Yes	No
Results article	results	01/02 /2014	21/01 /2019	Yes	No
Results article	results	01/05 /2009	21/01 /2019	Yes	No
Results article	results of population pharmacokinetic modeling of the association between 63396C->T pregnane X receptor polymorphism and unboosted atazanavir clearance	01/12 /2010	21/01 /2019	Yes	No
Results article	results of the association of ABCC10 polymorphisms with nevirapine plasma concentrations	01/01 /2012	21/01 /2019	Yes	No
Results article	results of the effect of SLCO1B1 polymorphisms on lopinavir plasma concentration in HIV-infected adults	01/02 /2012	21/01 /2019	Yes	No
Results article	results of the effects of SNPs within OATP1A2, OATP1B1 and OATP1B3 on the pharmacokinetics of lopinavir	01/02 /2010	21/01 /2019	Yes	No