

Building a picture of inflammatory arthritis in cystic fibrosis

Submission date 05/09/2017	Recruitment status No longer recruiting	<input checked="" type="checkbox"/> Prospectively registered
		<input type="checkbox"/> Protocol
Registration date 11/09/2017	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan
		<input type="checkbox"/> Results
Last Edited 22/09/2017	Condition category Musculoskeletal Diseases	<input type="checkbox"/> Individual participant data
		<input type="checkbox"/> Record updated in last year

Plain English summary of protocol

Background and study aims

Cystic Fibrosis is a condition that causes the lungs and digestive system clogged with mucus. Cystic Fibrosis associated arthropathy (CFA) is a condition thought to affect up to 10% of the CF population. It causes joint pain and swelling which is often intermittent, but which may become long-lasting. The aim of this study is to review patients with CF and inflammatory musculoskeletal symptoms with the aim of better understanding the phenotype and range of this condition. This will help to identify patients who need further investigation and treatment for joint symptoms. It will also aid future studies considering treatment options for this condition.

Who can participate?

Patients aged 16 or over who have CF, and who report joint swelling, morning stiffness, or impact on activities of daily living due to joint symptoms as well as patients with CF who do not have joint issues.

What does the study involve?

Participants are asked to attend an appointment for a clinical history and examination to be completed, and an ultrasound of their joints. Following this review, participants are asked to reattend only if their joint symptoms flare. They are asked to contact the CF unit should this occur. A follow-up telephone call is used at the end of the study period to confirm flare patterns. Participants with CF without joint disease have one visit combined with a routine clinic visit to include blood tests and ultrasound along with a clinical examination. They will also have a telephone call at the end of the study to ensure that they have not developed joint symptoms in the intervening time period.

What are the possible benefits and risks of participating?

Participants may benefit from better identification for patients seen with inflammatory joint disease so that treatment options may be discussed (in current form, evidence for these is extrapolated from other rheumatic diseases). In some cases, identification that pain is not currently associated with inflammation in the joint, and advice can be given on this basis and other associations with pain looked for. There are risks of bruising and minor discomfort for blood tests. There is a small risk of radiation with the ultrasounds associated with x-rays of

symptomatic joints - these will only be carried out if they would be done so in routine clinical practice.

Where is the study run from?

1. Manchester Adult Cystic Fibrosis Centre (UK)
2. Leeds Adult Cystic Fibrosis Centre (UK)

When is the study starting and how long is it expected to run for?

April 2017 to November 2018

Who is funding the study?

1. CF trust (UK)
2. Manchester Adult CF unit (UK)
3. Leeds University (UK)

Who is the main contact?

Dr Elizabeth Clarke

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Contact information

Type(s)

Public

Contact name

Dr Elizabeth Clarke

ORCID ID

<http://orcid.org/0000-0002-6703-6281>

Contact details

Manchester Adult Cystic Fibrosis Unit
University Hospital South Manchester
Manchester
United Kingdom
M23 9LT

Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers

awaited

Study information

Scientific Title

Identifying a Phenotype in Cystic Fibrosis Associated Arthritis

Acronym

PAC

Study objectives

This study aims to review patients with CF and inflammatory musculoskeletal symptoms with the aim of better understanding the phenotype and range of this condition.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Not provided at time of registration.

Study design

Observational cohort with control arm

Primary study design

Observational

Secondary study design

Case-control study

Study setting(s)

Hospital

Study type(s)

Diagnostic

Participant information sheet

Not available in web format, please use contact details to request a participant information sheet

Health condition(s) or problem(s) studied

Cystic Fibrosis Associated Arthropathy

Interventions

This is an observational study looking at cystic fibrosis associated arthropathy patterns of disease, to include clinical history and examination, serology, and ultrasound.

Patients with CF who have inflammatory-sounding joint symptoms are recruited to this observational cohort study. Participants attend a baseline visit in which they are seen by the clinical fellow to gain background medical information, a clinical examination, collect blood tests and complete an ultrasound of joints when they are not flaring. Xrays of joints are requested only for patients in whom it would be clinically indicated (unremitting or longstanding pain and swelling). Joint aspiration is carried out only where there is a significant effusion, in which case it would be clinically indicated. Investigation with blood tests includes inflammatory markers; urate (for gout); rheumatoid factor and anti CCP (associated with rheumatoid arthritis) and HLA-B27 (associated with seronegative spondyloarthropathies). Participants are then seen as and

when their joint symptoms flare in order to characterise the patterns of events and to gain clinical examination data, ultrasound imaging and bloods to gain a better picture of the disease. A telephone call at the end of the study is used to confirm patterns of disease flare over the study period.

25 patients with CF who do not have joint disease act as healthy control participants. These patients will have one visit combined with a routine clinic visit to include a medical history and clinical examination, blood tests and ultrasound.

Intervention Type

Other

Primary outcome measure

Patterns of disease identified by clinical manifestation, ultrasound findings and serology over a 9 month follow-up.

Secondary outcome measures

There are no secondary outcome measures.

Overall study start date

01/04/2017

Completion date

01/11/2018

Eligibility

Key inclusion criteria

1. Cystic Fibrosis
2. Peripheral joint disease including current or previous joint swelling affecting activities of daily living
3. Aged over 16
4. Attendance at either the Manchester or Leeds CF centre

Participant type(s)

Patient

Age group

Adult

Sex

Both

Target number of participants

75

Key exclusion criteria

1. Joint problems that when reviewed sound primarily biomechanical or have another non-inflammatory cause
2. Under 16 years

Date of first enrolment

14/10/2017

Date of final enrolment

14/12/2018

Locations

Countries of recruitment

England

United Kingdom

Study participating centre**Manchester Adult Cystic Fibrosis Unit**

University Hospitals South Manchester

Wythenshawe

Manchester

United Kingdom

M23 9LT

Study participating centre**Leeds Cystic Fibrosis Centre**

Gledhow Wing

Beckett Street

Leeds

United Kingdom

LS9 7TF

Sponsor information

Organisation

University Hospital South Manchester

Sponsor details

Southmoor Road

Wythenshawe

Manchester

England

United Kingdom

M23 9LT

+44 161 998 7070

sian.hanison@manchester.ac.uk

Sponsor type

Hospital/treatment centre

ROR

<https://ror.org/00he80998>

Funder(s)

Funder type

Charity

Funder Name

Cystic Fibrosis Trust

Alternative Name(s)

Cystic Fibrosis, CF

Funding Body Type

Private sector organisation

Funding Body Subtype

Other non-profit organizations

Location

United Kingdom

Funder Name

Manchester Adult Cystic Fibrosis Unit

Funder Name

Leeds University

Results and Publications

Publication and dissemination plan

Dissemination of results to participants and the CF community via our research newsletter and our unit facebook and twitter pages when possible. Planned publication in a high-impact peer reviewed journal 01/02/2020. A copy of the protocol will be available following review by the ethics committee.

Intention to publish date

01/02/2020

Individual participant data (IPD) sharing plan

The datasets generated during and/or analysed during the current study is not expected to be made available due to the raw data will be held separately from any patient identifiers for 5 years by the trust (UHSM) who are our sponsor. Requests for access would be via the trust but generally the information has been gather for a specific reason (this study) and could not therefore be used for another purpose.

IPD sharing plan summary

Not expected to be made available