Adjunctive Clindamycin For Cellulitis clinical trial (C4C)

Submission date	Recruitment status No longer recruiting	Prospectively registeredProtocol		
25/10/2013				
Registration date	Overall study status	Statistical analysis plan		
25/10/2013	Completed	[X] Results		
Last Edited	Condition category	Individual participant data		
15/05/2018	Skin and Connective Tissue Diseases			

Plain English summary of protocol

Background and study aims

Cellulitis is an infection of the skin most often caused by a bacterium called Group A streptococcus. Cellulitis is very common and some people can get it more than once. It can make people feel very ill and cause a lot of skin damage, which can take many weeks to get better. The bacterium produces a variety of poisons or 'toxins' which damage the skin in a similar way to a burn. The normal treatment is with an antibiotic called flucloxacillin, which is effective. Another antibiotic called clindamycin is often used to treat a more serious infection, caused by the same bacterium, called necrotising fasciitis. This antibiotic is also sometimes added to, or used after, flucloxacillin if the cellulitis does not appear to be getting better. Clindamycin is added because some doctors think that it will reduce the amount of toxins released by the bacterium. If less toxin is released then there should be less damage. There is some evidence that adding clindamycin helps the patient. We think that if we add clindamycin to the normal flucloxacillin treatment of cellulitis it might reduce the amount of skin damage. If the amount of skin damage is less then the patient will feel less pain and should recover more quickly. This study should tell us whether adding clindamycin is effective and well tolerated.

Who can participate?

Patients aged 18 or over who have a diagnosis of cellulitis of a single, upper or lower, limb.

What does the study involve?

Patients will be randomly allocated to receive flucloxacillin either with or without clindamycin. We will then see which patients get better more quickly. We will give the patient flucloxacillin as soon as the diagnosis of cellulitis is made, so treatment is not delayed. Clindamycin can sometimes cause diarrhoea so we do not want to give it unless it really does make patients get better quickly.

What are the possible benefits and risks of participating?

Participants will receive appropriate treatment and follow up. There are no extra risks compared with the usual treatments.

Where is the study run from? Bristol Royal Infirmary and 17 other hospitals in the UK When is the study starting and how long is it expected to run for? October 2013 to March 2016

Who is funding the study? NIHR - Research for Patient Benefit (UK)

Who is the main contact? Lucy Dixon Bristol.cellulitis@uhbristol.nhs.uk

Contact information

Type(s)

Scientific

Contact name

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Additional identifiers

Clinical Trials Information System (CTIS)

2013-001218-14

ClinicalTrials.gov (NCT)

NCT01876628

Protocol serial number

15297

Study information

Scientific Title

Adjunctive Clindamycin for Cellulitis: Clinical trial comparing flucloxacillin with or without clindamycin for the treatment of limb cellulitis (C4C Trial)

Acronym

C4C

Study objectives

The aim of this study is to see whether the addition of Clindamycin, a protein inhibiting antibiotic, to the standard antibiotic treatment of limb cellulitis, with Flucloxacillin, results in less tissue damage and a more rapid resolution of both systemic and local features, in a cost-effective manner.

Ethics approval required

Old ethics approval format

Ethics approval(s)

13/SC/0211; First MREC approval date 11/06/2013

Study design

Randomised interventional treatment trial

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Topic: Injuries and Emergencies, Skin; Subtopic: Injuries and Emergencies (all Subtopics), Skin (all Subtopics); Disease: Injuries and Emergencies, Dermatology

Interventions

Oral clindamycin or placebo added to IV or PO flucloxacillin for 48 hours. Study Entry: Single Randomisation only

Intervention Type

Drug

Phase

Phase IV

Drug/device/biological/vaccine name(s)

Clindamycin

Primary outcome(s)

Improvement of systemic and local features; Timepoint(s): Day 1 and Day 5

Key secondary outcome(s))

- 1. Decrease in pain using a visual analogue score (VAS); Timepoint(s): Day 1, Day 5 and Day 10
- 2. Quality adjusted life years (QALYs) based on the EQ-5D-5L; Timepoint(s): Day 1 and Day 30
- 3. Recovery of renal function; Timepoint(s): Day 1, Day 5 and Day 10
- 4. Resolution of composite inflammatory markers; Timepoint(s): Day 1, Day 5 and Day 10
- 5. Resolution of systemic features; Timepoint(s): Day 1, Day 5 and Day 10
- 6. Return to work or normal activities; Timepoint(s): Day 1 and Day 30

Completion date

31/03/2016

Eligibility

Key inclusion criteria

- 1. Male or female subjects aged 18 or over who have a diagnosis of cellulitis of a single, upper or lower, limb
- 2. Who are able to understand the study and give consent
- 3. Who are able to take oral medication

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

18 years

Sex

Αll

Key exclusion criteria

- 1. Patients with a confirmed history of penicillin, flucloxacillin or clindamycin allergy
- 2. Patients known to be colonised with MRSA or MRSA isolated from wound within the last year
- 3. Unable to take oral medication
- 4. Previous history of Clostridium difficile colitis
- 5. Clindamycin taken within the last 30 days
- 6. Clinically unstable
- 7. Unable to understand the study or give consent
- 8. Any doubt over the certainty of the diagnosis of cellulitis
- 9. Patients taking any drug that is incompatible with either flucloxacillin or clindamycin

Date of first enrolment

15/10/2013

Date of final enrolment

30/09/2015

Locations

Countries of recruitment

United Kingdom

England

Study participating centre Bristol Royal Infirmary

Bristol United Kingdom BS2 8HW

Study participating centre The Royal London

London United Kingdom E1 1BB

Study participating centre Royal Devon & Exeter

Exeter United Kingdom EX2 5DW

Study participating centre Hull Royal Infirmary

Hull United Kingdom HU3 2JZ

Study participating centre Yeovil District Hospital

Yeovil United Kingdom BA21 4AT

Study participating centre Doncaster & Bassetlaw Hospital

Doncaster United Kingdom DN2 5LT

Study participating centre Basingstoke Hospital

Basingstoke

United Kingdom RG24 9NA

Study participating centre King's College Hospital London

United Kingdom SE5 9RS

Study participating centre Poole Hospital

Poole United Kingdom BH15 2JB

Study participating centre Royal Lancaster Infirmary

Lancaster United Kingdom LA1 4RP

Study participating centre St George's Hospital

London United Kingdom SW17 0QT

Study participating centre Manchester Hospital

Manchester United Kingdom M13 9WL

Study participating centre Royal United Hospital Bath

Bath United Kingdom BA1 3NG

Study participating centre Newham Hospital London United Kingdom E13 8SL

Study participating centre
Portsmouth Hospital - Queen Alexandra Hospital
Portsmouth
United Kingdom
PO6 3LY

Study participating centre
Northumbria Hospital - North Tyneside General Hospital
North Shields
United Kingdom
NE29 8NH

Study participating centre Basildon Hospital Basildon United Kingdom SS16 5NL

Study participating centre Leeds General Hospital Leeds United Kingdom LS1 3EX

Sponsor information

Organisation

University Hospitals Bristol NHS Foundation Trust (UK)

ROR

https://ror.org/04nm1cv11

Funder(s)

Funder type

Government

Funder Name

Research for Patient Benefit Programme; Grant Codes: PB-PG-0212-27015

Alternative Name(s)

NIHR Research for Patient Benefit Programme, Research for Patient Benefit (RfPB), The NIHR Research for Patient Benefit (RfPB), RfPB

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

Other

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article	results	17/03/2017		Yes	No
HRA research summary			28/06/2023		No
Participant information sheet	Participant information sheet	11/11/2025	11/11/2025	No	Yes
Study website	Study website	11/11/2025	11/11/2025	No	Yes