Difference in indometacin and prednisolone in the treatment of gouty arthritis

Submission date	Recruitment status No longer recruiting	Prospectively registered	
15/01/2010		∐ Protocol	
Registration date	Overall study status Completed	Statistical analysis plan	
03/02/2010		[X] Results	
Last Edited 24/02/2016	Condition category Musculoskeletal Diseases	Individual participant data	

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

Contact name

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Contact details

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Additional identifiers

Protocol serial number

CRE-2008.466-T

Study information

Scientific Title

Comparison of oral prednisolone and oral indometacin in the treatment of acute gout-like arthritis: a multicentre double-blind randomised trial

Study objectives

Oral prednisolone is as effective as indometacin in treating gouty arthritis with less side effects.

Ethics approval required

Old ethics approval format

Ethics approval(s)

The Joint Chinese University of Hong Kong - New Territories East Cluster Clinical Research Ethics Committee, 19/12/2008, ref: CRE-2008.466-T

Study design

Multicentre double-blind randomised trial

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Gouty arthritis

Interventions

In Group 1 each patient will initially receive indometacin 50 mg orally, and six tablets of prednisolone-like placebo orally, and will then be observed for 120 minutes. Subsequently, the patient will be given a five day prescription of indometacin (50 mg orally eight hourly for two days follow by indometacin 25 mg eight hourly for another three days), and six tablets of prednisolone-like placebo once a day.

In Group 2 each patient will initially receive prednisolone 30 mg (six 5 mg tablets) orally, and indometacin-like placebo (two tablets) orally, and will then be observed for 120 minutes. After the initial treatment and observation, the patient will then be given a five day prescription of indometacin-like placebo (two tablets eight hourly for two days follow by one tablet eight hourly for a further three days) and prednisolone 30 mg orally once per day for five days.

All patients will be prescribed paracetamol 1 g six-hourly to be taken as required.

Intervention Type

Drug

Phase

Not Applicable

Drug/device/biological/vaccine name(s)

Prednisolone, indometacin

Primary outcome(s)

Charted daily up to 14 days after the medication started:

- 1. Analgesic efficacy
- 2. Presence or absence of adverse effects

Key secondary outcome(s))

Charted daily up to 14 days after the medication started:

- 1. 36-item Short Form health survey (SF-36) score
- 2. Joint stiffness
- 3. Joint swelling
- 4. Joint tenderness
- 5. Length of hospital stay
- 6. Paracetamol use
- 7. Relapse rate within 14 days

Completion date

31/12/2011

Eligibility

Key inclusion criteria

- 1. Aged greater than 18 years, either sex
- 2. Presenting to the Emergency Department between 9 am and 4 pm, Monday to Friday, from 1st January 2010 to 31st December 2011 with an acute arthritis suggestive of gout
- 3. Present within 3 days of symptom onset
- 4. Have a clinical diagnosis of an acute monoarthritis suggestive of gout
- 5. For the purpose of this study the diagnosis of acute gout is made if BOTH of the following TWO criteria are met:
- 5.1. Criteria 1: The presence of rapid onset of severe pain, swelling, tenderness and erythema of an affected joint, which is maximal by 6 to 12 hours
- 5.2. Criteria 2: The presence of one or more of the following:
- 5.2.1. Metatarsal-phalangeal (MTP) joint involvement (podagra); or
- 5.2.2. Knee or ankle joint involvement; or wrist or elbow joint involvement WITH either:
- 5.2.2.1. Gouty tophi present, or
- 5.2.2.2. Previous joint aspiration confirming the diagnosis of gout, or
- 5.2.2.3. The presence of hyperuricaemia, or
- 5.2.2.4. A clinical history of one or more clinical gouty arthritis attack

If none of B1 to B4 is present then we will seek to confirm the diagnosis by visual and microscopic examination of joint aspirate containing crystals.

Although joint aspiration and confirmation of the presence of uric acid crystals is not mandatory for inclusion in this study, nevertheless every patient will be asked whether they will consent to joint aspiration. Records will be kept of those that do and do not agree, and of those patients where aspiration is successful or unsuccessful.

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

18 years

Sex

Αll

Key exclusion criteria

- 1. Suspicion of sepsis or other joint disease (e.g. rheumatoid arthritis)
- 2. Follow up is not possible because of lack of transport or lack of telephone contact
- 3. Any significant co-morbidity which would interfere with assessment
- 4. Dementia
- 5. Confusion
- 6. Active gastrointestinal symptoms
- 7. Renal insufficiency with serum creatinine greater than 200 umol/L
- 8. Bleeding disorder
- 9. Warfarin
- 10. Allergy to a study drug
- 11. Joint aspirate which excluded the diagnosis of gout

It is often not possible to definitively separate gout from septic arthritis on clinical grounds alone, but for this study, sepsis is likely if the patient has a temperature greater than 38°C, chills or rigors, a wound near to the affected joint, a history of immunosuppression, erythematous tracking along a lymphatic vessel or vein in the affected limb, lymphadenopathy, or a previous history of septic arthritis.

Date of first enrolment

01/01/2010

Date of final enrolment

31/12/2011

Locations

Countries of recruitment

Hong Kong

Study participating centre
The Chinese University of Hong Kong
Shatin, NT
Hong Kong
852

Sponsor information

Organisation

Health, Welfare and Food Bureau (Hong Kong)

ROR

Funder(s)

Funder type

Government

Funder Name

Health and Health Services Research Fund (HHSRF) (Hong Kong) - Special Administrative Region

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	05/04/2016	Yes	No
Participant information sheet	Participant information sheet	11/11/2025 11/11/2	2025 No	Yes