

Cyclo-oxygenase inhibition and muscular function in hospitalised geriatric patients with inflammation

Submission date 07/04/2011	Recruitment status No longer recruiting	☐ Prospectively registered ☐ Protocol
Registration date 28/04/2011	Overall study status Completed	☐ Statistical analysis plan ☒ Results
Last Edited 31/08/2012	Condition category Other	☐ Individual participant data

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

Contact name
Dr Ingo Beyer

Contact details
Geriatric Department
UZ Brussel
101 Laarbeeklaan
Brussels
Belgium
1090
+32 (0)2 476 3307
Ingo.Beyer@uzbrussel.be

Additional identifiers

Study information

Scientific Title
NSAID treatment with piroxicam versus placebo in hospitalised geriatric patients with infection-induced inflammation - influence on muscle function: a single centre double blind randomised controlled trial

Study objectives

The treatment with a non steroidal anti-inflammatory drug (NSAID) in addition to standard antibiotic therapy might attenuate infection-induced inflammation and reduce its negative effects on muscle function

Ethics approval required

Old ethics approval format

Ethics approval(s)

Hospital ethics committee (Comité d'éthique hospitalier), CHU Brugmann approved on 17/12/2004 and amendements approved on 19/05/2005 (N/Ref CE 2004/44)

Primary study design

Interventional

Study design

Single centre double blind randomised controlled trial

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Infection-induced inflammation and related muscle weakness

Interventions

10 mg piroxicam daily versus placebo in addition to standard care including antibiotics

Intervention Type

Other

Phase

Not Applicable

Primary outcome(s)

1. Skeletal muscle mass (total body potassium) evaluated at baseline & weekly thereafter maximum two times
2. Muscle performance (grip strength, fatigue resistance and Elderly Mobility Scale (EMS) score evaluated at baseline & weekly thereafter with a maximum of three weeks
3. Inflammation (levels of cytokines and heat shock proteins) evaluated at baseline, daily during the first 3 days and weekly after baseline with a maximum of three weeks

Key secondary outcome(s)

1. Clinical evolution evaluated at discharge
2. Length of stay
3. Tolerance and adverse events evaluated daily throughout hospitalisation

Completion date

30/04/2006

Eligibility

Key inclusion criteria

1. Patients hospitalised in an acute geriatric ward
2. Age > 70 years
3. Inflammation, not due to surgery or burns, and documented by an increase of serum concentration of C-reactive protein (CRP) (> 10 mg/L) and/or fibrinogen (>400 mg/dL)
4. Informed consent

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Senior

Sex

All

Key exclusion criteria

1. General condition, dementia or confusion, not allowing the testing
2. Patients in (pre) terminal phase
3. Use of corticosteroids or non -steroidal anti-inflammatory drugs (NSAIDs) in the past 7 days; the use of inhalation corticosteroids, of low dose aspirin (as anti-aggregating medication) or of paracetamol is allowed
4. Contra-indication for the use of cyclo-oxygenase (COX)-2 inhibitors

Date of first enrolment

01/05/2005

Date of final enrolment

30/04/2006

Locations**Countries of recruitment**

Belgium

Study participating centre

Geriatric Department

Brussels

Belgium

1090

Sponsor information

Organisation

Brussels University Hospital (Belgium) (Universitair Ziekenhuis Brussel)

ROR

<https://ror.org/038f7y939>

Funder(s)**Funder type**

Hospital/treatment centre

Funder Name

Brussels University Hospital (Belgium)-Scientific Willy Gepts Fund ("Wetenschappelijk Fonds Willy Gepts" of the Universitair Ziekenhuis Brussel)

Funder Name

Brugmann University Hospital Brussels Centre (Belgium) (Centre Hospitalier Universitaire Brugmann and Universitair Ziekenhuis Brussel, Brussels)

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	01/03/2012		Yes	No