# The treatment of medial compartmental knee osteoarthritis (OA) symptoms with the KineSpring™ Unicompartmental Knee Arthroplasty (UKA) System

Submission date	Recruitment status	[X] Prospectively registered
26/06/2009	No longer recruiting	☐ Protocol
Registration date	Overall study status	Statistical analysis plan
14/07/2009	Completed	Results
Last Edited	Condition category	Individual participant data
12/09/2016	Musculoskeletal Diseases	Record updated in last year

## Plain English summary of protocol

Not provided at time of registration

## Contact information

## Type(s)

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# Additional identifiers

EudraCT/CTIS number

**IRAS** number

ClinicalTrials.gov number

Secondary identifying numbers

KINE-0902

# Study information

#### Scientific Title

A multicentre open-label interventional study of patients with medial compartmental knee osteoarthritis (OA) symptoms treated with the KineSpring™ Unicompartmental Knee Arthroplasty (UKA) System

#### Acronym

**COAST** 

## **Study objectives**

The null hypothesis (H0) is that the Knee Society Score (KSS) for function derived from subjects treated with the KineSpring™ UKA System is inferior to a mean KSS for function of 80 which is widely reported in applicable literature:

H0: KSS less than or equal to 80 - d

The alternative hypothesis (H1) is that the KSS for function associated with KineSpring™ UKA System subjects is not inferior:

H1: KSS greater than 80 - d

## Ethics approval required

Old ethics approval format

## Ethics approval(s)

- 1. University of Ghent, Belgium, 07/10/2009
- 2. Leeds West Research Ethics Committee, UK, 21/10/2009
- 3. All other centers have received ethics approval before recruitment of the first participant

## Study design

Prospective multicentre open-label non-randomised non-inferiority study

#### Primary study design

Interventional

#### Secondary study design

Non randomised study

#### Study setting(s)

Hospital

## Study type(s)

Treatment

#### Participant information sheet

Not available in web format, please use the contact details below to request a patient information sheet

## Health condition(s) or problem(s) studied

Osteoarthritis of the knee

#### **Interventions**

Arthroplasty of the knee. There is only one treatment arm as the results of this arm will be compared to a historical control. The surgical procedure lasts 1.5 to 2 hours. Enrolment will take place over 9 months with 24 year follow-up there after, so any one patient will participate in the study for a maximum of 24 months.

## Intervention Type

Procedure/Surgery

## Primary outcome measure

The KSS Function score 6 months post-KineSpring™ UKA System surgery

## Secondary outcome measures

- 1. Procedural success (i.e., successful implantation of the device)
- 2. Treatment-emergent AEs at surgery, 2 and 6 weeks, 3, 6, 12, 18, and 24 months (to include device malfunctions/unanticipated adverse device evaluations (UADEs)
- 3. Subject reported symptom severity changes from baseline measurement at 6 weeks, 3, 6, 12, 18, and 24 months in the following criteria:
- 3.1. KOOS score
- 3.2. EuroQol (EQ-5D)
- 3.3. Lysholm Knee Scale
- 3.4. Knee Specific Pain Scale
- 3.5. Investigator's assessment of patients' global status
- 3.6. Activity Profile
- 3.7. Patient Overall Treatment Evaluation
- 4. KSS knee and function scores at 6 weeks, 3, 6, 12, 18, and 24 months
- 5. KineSpring™ UKA System stability through evaluation of radiographic parameters at 3, 6, 12, and 24 month follow-up

## Overall study start date

#### Completion date

01/01/2014

## Eligibility

#### Key inclusion criteria

- 1. Aged greater than or equal to 25 years, either sex
- 2. Diagnosis of medial OA of the target knee based on American College of Rheumatology (ACR) Clinical and Radiographic or Clinical Classification criteria for osteoarthritis with a minimum 12 month history
- 3. Continued knee pain despite minimum 3 months of conservative therapy, (i.e., physical therapy, bracing, orthotics, systemic or injected medications)
- 4. Knee flexion greater than or equal to 90 degrees
- 5. KSS knee and function scores less than 70
- 6. Weight greater than 60 kg
- 7. Ability to tolerate antibiotics
- 8. Willing and able to give voluntary written informed consent to participate in this clinical investigation
- 9. Prepared to consent to the transfer of his/her information to third parties
- 10. Willing to undertake the required investigational procedures and willing to return for the required follow-up evaluations

#### Participant type(s)

Patient

#### Age group

Adult

#### Sex

Both

## Target number of participants

40

#### Key exclusion criteria

- 1. Active infection, sepsis or osteomyelitis, history of infection in the target knee or distant foci of infections which may spread to the implant site
- 2. Rheumatoid arthritis or other forms of inflammatory joint disease
- 3. Significant OA in lateral or patellofemoral compartment
- 4. Previous surgery in the target knee within 12 months prior to screening
- 5. Previous osteotomy or failed knee endoprostheses of any kind in the target knee
- 6. Tibial-femoral varus or valgus alignment greater than 10 degrees
- 7. Ligamentous or meniscal instability as assessed by the Investigator
- 8. Concomitant immunosuppressive therapy
- 9. Paget's disease or metabolic disorders which may impair bone formation
- 10. Osteomalacia or moderate to severe osteoporosis, rapid joint destruction, marked bone loss or bone resorption noted on x-ray
- 11. Charcot's joint disease or other severe neurosensory deficits
- 12. Incomplete or deficient soft tissue surrounding the knee as assessed by the Investigator

- 13. Flexion deformity greater than 10 degrees
- 14. Uncontrolled diabetes mellitus or other significant co-morbidities
- 15. Any significant medical condition (e.g., significant psychiatric or neurological disorders, active alcohol/drug abuse, etc) or other factor (e.g. planned relocation, uncooperative patient) that the Investigator feels would interfere with study participation
- 16. The patient is pregnant or lactating
- 17. Historic or ongoing litigation for or participation in workers compensation for musculoskeletal injuries or disorders
- 18. Subjects who are currently enrolled in another clinical investigation

#### Date of first enrolment

30/09/2009

#### Date of final enrolment

01/01/2014

## Locations

#### Countries of recruitment

Belgium

England

**United Kingdom** 

# Study participating centre Robert Jones and Agnes Hunt Orthopaedic and District Hospital

Oswestry United Kingdom SY10 7AG

# Sponsor information

#### Organisation

Moximed Inc. (USA)

#### Sponsor details

26460 Corporate Ave. Suite 100 Hayward, California United States of America 94545

#### Sponsor type

Industry

#### Website

http://www.moximed.com/

#### **ROR**

https://ror.org/04hrwvd56

# Funder(s)

## Funder type

Industry

#### Funder Name

Moximed Inc. (USA)

## **Results and Publications**

## Publication and dissemination plan

Not provided at time of registration

Intention to publish date

Individual participant data (IPD) sharing plan

## IPD sharing plan summary

Not provided at time of registration