

Osigraft Study: a prospective, randomised, controlled, multicentre, (pilot) study of Osigraft® in instrumented posterolateral fusions

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Registration date 20/12/2005	Overall study status Completed	<input type="checkbox"/> Protocol
Last Edited 31/03/2015	Condition category Musculoskeletal Diseases	<input type="checkbox"/> Statistical analysis plan
		<input checked="" type="checkbox"/> Results
		<input type="checkbox"/> Individual participant data

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

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Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers

EU 101; NTR217

Study information

Scientific Title

Osigraft Study: a prospective, randomised, controlled, multicentre, (pilot) study of Osigraft® in instrumented posterolateral fusions

Study objectives

It is postulated that the use of Osigraft® will prove beneficial in the treatment of patients requiring decompression and instrumented lumbar spinal fusion while eliminating the pain and morbidity associated with harvesting of autograft bone from the iliac crest.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Ethics approval received from the local medical ethics committee

Study design

Multicentre randomised double-blinded active-controlled parallel-group trial

Primary study design

Interventional

Secondary study design

Randomised controlled trial

Study setting(s)

Hospital

Study type(s)

Treatment

Participant information sheet

Health condition(s) or problem(s) studied

Degenerative disc disease (DDD), spondylolisthesis

Interventions

All subjects will receive decompression and posterolateral spinal fusion via instrumented pedicle fixation. There will be two arms: a treatment arm with Osigraft® and local autograft and a control arm using autogenous bone graft from the iliac crest.

Intervention Type

Procedure/Surgery

Primary outcome measure

In order for a patient to be classified as a success, the patients has to meet all of the criteria mentioned below:

1. Radiographic demonstration of spinal fusion
2. Oswestry Disability Index improvement of at least 20% from the pre-treatment visit
3. No revisions, removals or supplemental fixations may occur
4. Absence of a serious investigational-product -related adverse event during the course of the study
5. No unresolved neurological deficits at the final examination that were not present prior to study treatment
6. No decreases in neurological status at the final examination from the preoperative evaluation

Secondary outcome measures

Not provided at time of registration

Overall study start date

14/07/2004

Completion date

16/10/2006

Eligibility

Key inclusion criteria

1. Diagnosis of degenerative and/or isthmic spondylolisthesis and/or degenerative disc disease (DDD) at the levels of L3-S1 with:
 - 1.1. Lumbar instability of at least 2 to 3 mm translation in standing standard radiographs, or
 - 1.2. At least 2 to 3 mm translation in flexion extension radiograms and/or angulation motion defined as greater than 15° at L3-L4 level, greater than 18° at L4-L5 level, and greater than 17° at L5-S1 spine level
2. Leg and/or back pain with one or more of the following phenomena: radiculopathy, sensory deficit, motor weakness, reflex pathology, neurogenic claudication
3. The subject has been non-responsive to at least 6 months of non-operative treatment prior to study enrolment
4. The subject has a preoperative Oswestry Disability Index of 30 - 100
5. Fusion of only one lumbar level in the L-3 to S-1 region is indicated
6. The subject has no history of previous fusion attempt(s) to the affected spinal level
7. The subject is willing and able to understand, sign and date the study specific patient informed consent, which has been approved by the Institutional Review Board
8. The subject agrees to comply with post-operative clinical and radiographic evaluations and required rehabilitation regimen
9. Age: the subject is skeletally mature between 18 and 80 years of age
10. Gender: both males and females can be included in the study

Participant type(s)

Patient

Age group

Adult

Lower age limit

18 Years

Sex

Both

Target number of participants

150

Key exclusion criteria

1. The subject has gross instability as a result of degenerative and/or isthmic spondylolisthesis and/or DDD that requires multiple levels fusion (an example would be exclusion of grade IV spondylolisthesis)
2. The subject is severely osteoporotic/osteopenic as manifested by the presence of a history of osteoporotic spine fractures and/or medical treatment for osteoporosis and/or such changes on the AP/lateral radiographs that will make the surgeon decide to exclude this patient from any form of pedicle fixation
3. The subject has an active spinal and/or systemic infection
4. The subject has a systemic disease or condition, which would affect his/her ability to participate in the study requirements or the ability to evaluate the efficacy of the investigational product (i.e. active malignancy, neuropathy)
5. The subject is a prisoner, a transient or has been treated for alcohol and/or drug abuse in an inpatient substance abuse program within six months prior to proposed study enrolment
6. The subject has participated in clinical trials evaluating investigational devices, pharmaceuticals or biologics within 3 months of enrolment in the study
7. The subject is a woman who intends to bear children within 1 year of enrolling in the study (e.g. is not post-menopausal, has not had a hysterectomy, is not on long term oral contraception)
8. The subject is morbidly obese (defined as weight greater than 60 percent over the recommended ideal weight as described in the 1996 Metropolitan Height and Weight Tables for Men and Women, Appendix B)
9. The subject has a known sensitivity to any component of Osigraft®
10. The subject is known to require at the time of treatment, additional surgery to the lumbar spinal region within the next six months
11. Patients who have in the last year been prescribed systemic corticosteroids

Date of first enrolment

14/07/2004

Date of final enrolment

16/10/2006

Locations

Countries of recruitment

Netherlands

Study participating centre

University Medical Center Utrecht
Utrecht
Netherlands
3508 GA

Sponsor information

Organisation

University Medical Centre Utrecht (UMCU) (Netherlands)

Sponsor details

PO Box 85500
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3508 GA

Sponsor type

University/education

Website

<http://www.umcutrecht.nl/zorg/>

ROR

<https://ror.org/04pp8hn57>

Funder(s)

Funder type

Industry

Funder Name

Stryker Nederland BV (The Netherlands)

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

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article	results	19/08/2013		Yes	No