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Pelvic operation for bone impingement

Submission date
04/05/2023

Recruitment status
No longer recruiting

Registration date
14/05/2023

Overall study status
Completed

Last Edited
12/05/2023

Condition category
Musculoskeletal Diseases

[ ] Prospectively registered
[ ] Protocol
[ ] Statistical analysis plan
[ ] Results
[ ] Individual participant data
[ ] Record updated in last year

Plain English summary of protocol
Background and study aims
Femoroacetabular impingement (FAI) syndrome (where the hip joint is not shaped normally) is a dynamic cause of hip arthritis and is commonly diagnosed in young adults without any other causes of hip pain. Pincer-type FAI, which is discussed in this study, is typically present in active middle-aged females. The aim of this study was to evaluate a series of patients who were treated surgically for the pincer or combined type of FAI to assess their clinical and radiological results and the complications of their surgical treatment.

Who can participate?
Patients with pincer/combined type FAI who needed surgery

What does the study involve?
Patients who underwent surgery between 2011 and 2020 are followed up, including MRI scans.

What are the possible benefits and risks of participating?
The benefits are a complete range of motion in the hip after the operation without any pain. Risks are possible rear FAI sign (a clinical sign with patients with FAI) after the operation.

Where is the study run from?
Ortopedicka klinika FNB (Czech Republic)

When is the study starting and how long is it expected to run for?
January 2011 to December 2020

Who is funding the study?
Investigator initiated and funded

Who is the main contact?
Dr Magersky Stepan, smagersky@gmail.com

Contact information

Type(s)
Principal investigator

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Additional identifiers

Study information

Scientific Title
Triple pelvic osteotomy in the treatment for pincer-type femoroacetabular impingement syndrome

Study objectives
The aim of this study was to evaluate our series of patients who were operated for pincer femoroacetabular impingement (FAI) or combined-type FAI, their clinical and radiological results, and complications of surgical treatment. It is hypothesized that redirection triple pelvic osteotomy will correct the retroversion of the acetabulum measured by MRI scan and improve clinical outcomes in our cohort of patients. It is expected that this change in the orientation of the acetabulum will not affect the joint arthritis in negative way.

Ethics approval required
Old ethics approval format

Ethics approval(s)
Approved 17/05/2022, Faculty Hospital Bulovka Ethical Committee (180 81, Prague 8, Czech Republic; +420 (0)26608 2717; bozena.zachovalova@bulovka.cz), ref: 16.5.2022/10A425/EK-Z

Primary study design
Observational

Study design
Single-centre observational longitudinal case-control study

Study type(s)
Treatment

Health condition(s) or problem(s) studied
Femoroacetabular impingement (FAI) syndrome

Interventions
Eighteen patients diagnosed with pincer/combined type FAI received triple pelvic reverse osteotomy between 2011 and 2020 and were followed in a prospective study for clinical and radiological evaluation. The average age of the patients was 37.3 years (28.0-45.0). Middle-age follow-up was performed. MRI scans were used to see the exact retroversion of the acetabulum before and after surgery.

Intervention Type
Procedure/Surgery

Primary outcome(s)
1. Pain management measured with the Visual Analog Scale (VAS) before the operation and 1 year after the operation.
2. Pain, function, absence of deformity, and range of motion measured with the Harris Hip Score (HHS) at 11/2011, 02/2016 and 04/2020
3. Pain, stiffness, and function measured with the Western Ontario and McMaster Universities Osteoarthritis Index (WOMAC) before and after the operation

Key secondary outcome(s)
There are no secondary outcome measures

Completion date
31/12/2020

Eligibility

Key inclusion criteria
1. Patients diagnosed with pincer/combined type FAI
2. Received a reverse triple pelvic osteotomy for treatment of pincer/combined type FAI at the Orthopedic Clinic Faculty Hospital Bulovka in Prague between 2011 and 2020

Participant type(s)
Mixed

Healthy volunteers allowed
No

Age group
Adult

Sex
All

Total final enrolment
18

Key exclusion criteria
There are no exclusion criteria

Date of first enrolment

15/01/2011

Date of final enrolment
20/12/2020

Locations

Countries of recruitment
Czech Republic

Study participating centre
Bulovka Faculty Hospital
Budinova 2
Prague 8
Czech Republic
180 81

Sponsor information

Organisation
Ortopedicka klinika FNB

Funder(s)

Funder type
Other

Funder Name
Investigator initiated and funded

Results and Publications

Individual participant data (IPD) sharing plan
The datasets generated during and/or analysed during the current study are not expected to be made available due to a contradiction with the joint-preserving-surgery committee.

IPD sharing plan summary
Not expected to be made available