Magnetic Resonance Imaging of Osteonecrosis of the Femoral Head

Status: Recruiting

Eligibility Criteria

Age Group: 18 years and over
This study is NOT accepting healthy
volunteers

Inclusion Criteria:

- diagnosed with Stage 1 or Stage 2 osteonecrosis of the femoral head (ONFH) - intend to have core decompression surgery to treat the ONFH

Exclusion Criteria:

- excluded from having an MRI based on Center for Magnetic Resonance Research (CMRR) safety criteria - existing implantation of metal device in affected hip - any health conditions that would pose a challenge for you to participate - unavailable to undergo follow up MRI 6 months after core decompression treatment

Conditions & Interventions

Conditions:
Bone, Joint & Muscle
Keywords:
core decompression treatment, MRI, Osteonecrosis, early diagnosis, hip

More Information

Description: The purpose of this research study is to investigate new magnetic resonance imaging (MRI) methods to better detect and monitor osteonecrosis of the femoral head (ONFH) before and after treatment. ONFH causes injury to the hip joint that can lead to osteoarthritis (the breaking/wearing down of cartilage & tissues within the joint) and the eventual need for a hip replacement. It can be difficult to detect ONFH early on using current medical imaging techniques, which is when treatments may be the most effective. Furthermore, available treatments are not always effective at preventing the progression (spread or growth) of ONFH. This research may benefit others with ONFH by providing more effective medical imaging tools to detect ONFH earlier and inform treatment decisions to increase the chance of stopping or delaying the progression of ONFH and preventing hip osteoarthritis.
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