

COSMOS Study: Lay Summary

In order to see inflammation within the knee joint on images produced with a magnetic resonance imaging scanner (MRI), it is necessary to give patients an injection. The injection is a dye which shows up any infected or inflammatory structures of the body as highlighted areas on the MRI scans. There are some negative consequences by giving the injection to patients:

- Increases the length of the examination,
- Increases the cost of the examination
- Some patients are allergic to the injection and are unable to have it
- Some patients can not eliminate the injection from their body due to poor kidney function

By eliminating the need for the injection it will allow for more patients to have the investigation to look at inflammation in the body in a shorter time without exposing them to any side effects.

The COSMOS (Contrast-obviated MRI scanning of synovitis) research project found that it was possible to look at inflammation in the knees of patients that have osteoarthritis in an examination time of approximately thirty minutes without the need for an injection.

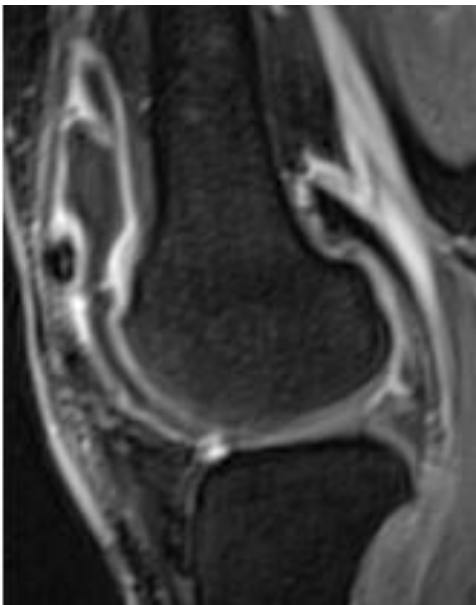


Image of knee with dye injection

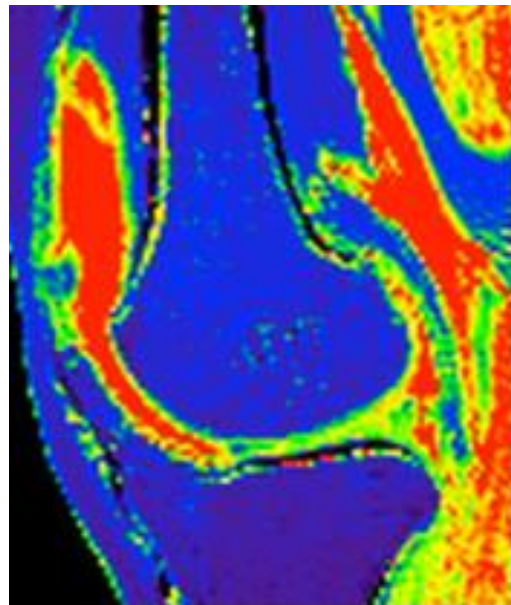


Image of knee without injection