

This newsletter from CIRRO published 16th June 2015

PhD students: all projects are presented on our website www.cirro.no



Are Stødle



Berhard Flatøy



Trygve Holm Glad



Alexander N. Fraser



Gunnar Petursson



Justin van Leeuwen



Projects in planning by Frank- David Øhrn:

In this study, we will analyze in vivo kinematics and stability of knee implants with several representative designs. GMK sphere has a conceptual different PE insert compared to the conventional Nexgen insert. GMK sphere is a medial pivot one to allow lateral translation/rollback. Currently we are in the phase of writing the protocol.

Research Fellow Masako Tsukanaka

is an orthopedic surgeon and researcher from Kyoto University Faculty of Medicine in Japan. As a research fellow working at CIRRO from April 2014 –2016 her main areas are:

- Analysing RSA data
- Developing new projects within kinematics
- Phantom study of the knee.
- THP in young patients under 20 years together with Dr.Vera Halvorsen.



Head of CIRRO Stephan Röhrli

This is our first newsletter. It might seem a bit late but I am very proud to look back on a good 2014 with two successfully defended PhD theses. 2015 started positive with a new x-ray lab, the start of new studies and new enthusiastic PhD candidates. Masako has been with us for a year now. She has been a great addition to the team and has become very knowledgeable in RSA and on skis. Currently a lot of new projects are in the starting phase. The intention with this newsletter is to inform about small, big and innovative happenings in the CIRRO world. Each member, PhD, radiographer, coordinator or senior researcher may contribute and is expected to contribute – because it is each one of us that makes us to the team we are – CIRRO!



Stephan



From left to right: Reviewing committee Dr. med. Per Kristansson, Supervisor Stephan M. Röhrli, Britt Stuge, Dr. med. Thomas Kibsgård, Reviewing committee Håkan Jonsson, Kersti Storheim.

Thomas Kibsgård PhD defense the 31st of October 2014

“Radiostereometric analysis of sacroiliac joint movement and outcome of pelvic joint fusion”.

Thomas studied the movement of the Sacroiliac joint with RSA. He found extremely little movement in this joint. No difference between painful and healthy ones. However some of the patients that he operated with an arthrodesis were clinically better.

Jon Dahl

PhD defence 05th September 2014

“Wear and wear measurement of the total and Hemi hip replacement”.

We study difference in polyethylene-wear and osteolysis around acetabular cups between ceramic (Alumina) and metal (Cobalt-Chrome) heads in total hip arthroplasty. We have followed three different patient materials from randomised trials for ten years with radiostereometry (RSA). The results from two of the materials show more than 50 % reduced wear with ceramic heads compared to metal heads. With regard to development of osteolysis around the cups we have not found any significant differences, but there is a tendency towards more bone loss with metal heads. We have developed a new method for wear measurement with RSA. This method allows wear measurement with RSA without index RSA radiographs.

