

Jonathan Robinson Fellowship Report

1. Schulthess Klinik.

Location: Zurich, Switzerland

Mentor: Professor Leunig

My rotation with Professor Leunig was an exceptional experience. I was able to scrub cases with him and participated in young adult hip procedures (PAO, Surgical Hip Dislocation and Hip Arthroscopy). Professor Leunig is a great mentor and took the time to discuss diagnosis, treatment options and surgical indications for young adult hip patients as well as patients with hip arthritis.

Professor Leunig does an anterior approach for his total hip replacement and most of his total hip replacement revisions. He uses a bikini incision the majority of the time and does not use a traction table or bone hook (omnitrack) to elevate the femur. He elevates the femur with meticulous dissection and capsular releases.

In addition to working with Dr. Leunig I was lucky enough to meet Professor Ganz in the Operating Room. I also worked with Professor Leunig's Hip and Knee partners whenever Dr. Leunig was away.

I spent a day in Lucerne with Professor Martin Beck which was very educational and I recommend future fellows inquiring about visiting there if Professor Leunig is going to be away. Professor Beck does an anterior approach with the patient in the lateral decubitus position. He also takes care of young adult hip patients (PAO's, surgical hip dislocation). It is about a 40min train ride from Zurich.

Research:

1. Robinson J, Casartelli NC, Leunig M. Editorial commentary: Return to sport: an ill-defined parameter. *Arthroscopy: The Journal of Arthroscopic and Related Surgery*. Volume 36, Issue 2, Pages 450–452 Feb 2020

2. Rüdiger HA, Dittrich M, Robinson J, Mansour T, Schwab T, Stadelmann VA, Leunig M. The impact of heterotopic ossification on self-reported outcomes after total hip arthroplasty using the direct anterior approach. *JBJS*. 2020 Nov 4;102(Suppl 2):91-8.

2. NHS London College University Hospital

Location: London, UK

Mentor: Professor Haddad

My trip to the UK was rewarding and very educational. I spent most of my time in London with Professor Haddad and his team between the NHS hospital and also Princess Grace Hospital (private). This part of the fellowship was geared towards arthroplasty (primary and complex revision hip and knee replacement) and hip resurfacing.

Professor Haddad has a team of fellows and residents and I felt very much part of the team right away. Robotic (MAKO) uni, total knee, and total hip replacements were a large part of this rotation. This was perfect for me because my current job requires me to be able to use the MAKO robot; so it was great to have that exposure. Professor Haddad also has a sports component to his practice that includes caring for professional soccer and rugby players (ACL recon, Hamstring Repair and Hip and Knee arthroscopy) and even included a game coverage opportunity for the NFL while they played a game in London (Houston Texans vs Jacksonville Jaguars).

When Professor Haddad was away he arranged for me to visit other Hip centers in the UK. The sites included **The Royal Devon and Exeter in Exeter, UK** and the **Royal Orthopaedic Hospital in Birmingham, UK**

A. Exeter

Mentor: Jonathan Howell

The Exeter group is a must visit if in the UK. They hold a weekly pre-op/post op conference where all the consultants are present and discuss cases. In addition to their traditional "Exeter" cemented hip they also used the MAKO Robot for hybrid replacements. I was able to see revisions using impaction grafting techniques for acetabular defects which I was not exposed to during residency or fellowship.

B. Birmingham

Mentor: Ronan Tracey

I spent two days with Dr. Tracey to learn more about the Birmingham Hip Resurfacing. Dr. Tracey is a great surgeon and innovator. The time I spent with him in the OR I saw and participated in BHR, a new custom Metal on Poly Resurfacing, cementless and cemented total hip arthroplasty and a total hip replacement revision. If there is any interest in hip resurfacing I recommend visiting the Royal Orthopaedic Hospital in Birmingham Dr. Tracey is a great host. In addition, there is a young adult hip opportunity with Mr. Callum McBryde whom I got to meet in the operating room.

Research:

I was able to participate in a research projection with Professor Haddad and his team and was selected for a poster presentation at the last British Hip Society meeting.

1. Treatment of Acute Periprosthetic Joint Infection in Total Hip Arthroplasty: Single Stage Approach

Jonathan Robinson 2,

Peter Moriarty¹, Syed Ahmed¹, Sundeep Sighn¹, Fares Haddad¹

1. University College London Hospitals. London, UK

2. BronxCare Health System. Bronx, New York

Presented at the 2020 British Hip Society Annual Scientific Meeting' at the ICC Wales. Wales, UK March 2020

3. Clinique Du Sport

Location: Paris, France

Mentor: Fredric Laude

Dr. Laude is yet another amazing surgeon and innovator. During my time in Paris I spent time in the OR and in the clinic with Dr. Laude. I was exposed to both young adult hip procedures and arthroplasty. Dr. Laude does PAO's, Hip Arthroscopy and Primary and Revision Hip Replacements using an anterior approach.

It was great to see more young adult hips from another master surgeon and anterior approach hips using a traction table designed by Dr. Laude. Dr. Laude also using a bikini incision anterior approach for the majority of his cases. Dr. Laude's system allows for the surgeon to do the anterior approach with no assistants. We discussed cases in the clinic and I templated cases that were indicated for surgery. This is another site that I recommend Muller fellows visit; it is worth a 1-2 month visit.

Overall, it was an amazing experience. I got to meet and interact with mentors that I read and heard about throughout my training in New York and St. Louis. As a young surgeon in New York City it was great to see the anterior approach done in so many different ways (No table, patient lateral, traction table, bikini incision). It was extremely humbling, inspirational and motivating to work with these surgeons. It was great to discuss and scrub cases with them. All offered to have me come back in the future and I look forward to doing so once I have some of my own cases under my belt.

I am thankful to the Muller Foundation for this tremendous experience.