

## **BRACCO FELLOWSHIPS EDUCATION IN RESEARCH ENROLMENT FORM**

**Name of Institution** University Medical Center Rostock, Institute of Diagnostic and Interventional Radiology, Pediatric Radiology and Neuroradiology

**City and Country of Institution** Rostock, Germany

### **RESEARCH GROUP**

Brief description of the research group and of its mission:

The musculoskeletal research group headed by Prof. Dr. Marc-André Weber closely cooperates with orthopedic surgeons and sports surgeons in the field of athletic groin pain [*Radiologie (Heidelb)* 2023, PMID: 36715718]. Current research works focusses on patterns of injury such as superior and secondary cleft signs of dedicated MRI in comparison with targeted fluoroscopy guided contrast agent injection into the symphyseal cleft in patients with athletic chronic groin pain. In addition, the presence of symphyseal instability as assessed by flamingo view projection radiographs has been correlated to the presence of a cleft sign [*Eur Radiol* 2023, PMID: 37145146]. Moreover, the value functional MR imaging techniques such as T2 mapping or advanced ultrasound techniques such as superb microvascular imaging (SMI) are currently evaluated in these patients.

### **TITLE OF PROPOSED RESEARCH PROJECT**

T2 relaxation times of the discus interpubicus in osteitis pubis

### **OBJECTIVES**

- To quantify differences in T2 relaxation times in patients with acute osteitis pubis
- To quantify differences in T2 relaxation times in patients with chronic osteitis pubis
- To quantify standard values of the discus interpubicus in healthy subjects
- To assess differences between healthy subjects and patients

### **APPLICANT'S DUTIES**

- To be one of two readers that separately place three regions-of-interest (ROI) covering the whole discus interpubicus according to prior recommendations [*PLoS One* 2018, PMID: 30133521]
- To repeat the assessment process once on the original MR images to assess repeatability and reliability of the T2 relaxation times

## **APPLICANT'S BENEFITS**

- Participation on scientific outcomes of the project i.e. presentations to congresses or publications of papers
- Presentation of this work as oral presentation is planned at the ECR and ESSR annual scientific meetings
- Publication of this work as original research paper is planned for European Radiology

*Project Leader:* Marc-André Weber, MD, MSc

*Members:* Norman Holl, MD, PhD and Andres Arevalo, MD