



## European Society of Endodontology

### Young Investigator Research Grant

Award 5000 Euros

Dr. Casper Kruse, DDS, PhD-student



#### Career

2005	Graduated from School of Dentistry, Aarhus University
2005-2009	Dentist in general practice
2009-2014	Clinical instructor, Department of Dentistry, Aarhus University (part time)
2009-	Dentist in general practice with special focus on endodontics (part time)
2012-2014	Scientific assistant, Section of Oral Radiology, Department of Dentistry, Aarhus University (part time)
2014-	PhD-student, Section of Oral Radiology, Department of Dentistry, Aarhus University (part time)

#### Project description

The project focuses on the use of Cone Beam Computed-Tomography (CBCT) for diagnosis, treatment planning and treatment of apical periodontitis.

The purposes of the present study are to evaluate:

1. Periapical bone status six years after a surgical endodontic retreatment had been performed ("Treatment outcome").
2. If additional information from CBCT changes the clinician's diagnosis, treatment plan and eventually the choice of treatment modality ("Decision-making and patient management").
3. The diagnostic value of periapical radiographic images and CBCT for the diagnosis, compared to a Gold Standard (histology) of apical periodontitis on teeth previously having a surgical endodontic retreatment performed ("Validation").
4. The socio-economical aspect of a general use of CBCT in endodontics ("Cost-effectiveness").

The project is carried out as a PhD-project at Section of Oral Radiology, Department of Dentistry, Aarhus University, Denmark.