



Heart Failure & Arrhythmias



Pulmonary Hypertension
& Thrombosis



Atherosclerosis
& Ischemic Syndromes



Diabetes & Metabolism



Microcirculation

Focus of research group (I)

Name PI: Otto Kamp, cardiologist, MD, PhD, FESC (PI)

Department, UMC: cardiology VUmc

Size of research group: 3 persons VUmc, 2 fellows and PI and international collaboration with University of Nebraska, USA and Sao Paulo, Brazil

Current mission, vision and aims

The development of theragnostics (imaging combined with therapy) in clinical cardiology, especially in acute coronary syndromes, but also exploring endocarditis.

First, feasibility of sonolysis in the ambulance in acute STEMI, efficacy of post intervention (PCI) sonolysis in microvascular obstruction after pPCI.

Second, resolution of vegetations in endocarditis, especially right sided device endocarditis and improvement of penetration of antibiotics in endocarditis

Focus of research group (II)

Current expertise

8 publications on the topic of sonolysis resulting in 2 academic thesis/promovendi

Current funding

University of Nebraska and matched by VUmc



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Future plans

Short term (1-2 year) plan

Plan: pilot ambulance study, pig experiment vegetation, multcenter post pPCI sonolysis study (MRUSMI = microvascular reperfusion utilizing sonolysis in acute myocardial infarction)

Necessary infrastructure:

Promovendus (will start January 2019)

Collaboration network with Nebraska, Sao Paulo, Amsterdam

Long term (>2 year) plan

Plan: MRUSMI, clinical outcome

Necessary infrastructure:

Collaboration network, support from ACS