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 Paolo, 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
Future plans

Short term (1-2 year) plan
Plan: pilot ambulance study, pig experiment vegetation, multicenter 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 Paolo, Amsterdam

Long term (>2 year) plan
Plan: MRUSMI, clinical outcome

Necessary infrastructure:
Collaboration network, support from ACS