

# CONTRAST

Collaboration for New Treatments of Acute Stroke

## CONTRAST consortium meeting - September 2022

Location: Amrâth Grand Hotel de l'Empereur, Stationsstraat 2, 6221 BP Maastricht

<https://www.amrathhotelempereur.nl/>

Date: 22 September 2022

Timeslot	Topic	Speakers	Setting
10:00-11:45	Scientific Committee meeting for WP leaders		Parallel closed meeting
11:00-12:00	Datacollection workshop for Research nurses and PhD students		Parallel workshop
<b>Start plenary program</b>			
12:00-12:30	Opening & progress update	Diederik Dippel	Plenary
12:30-13:00	Lunch and poster viewing		
13:00-14:00	Keynote Lecture by Robin Lemmens Imaging of the brain in stroke beyond NCCT: a continue challenging but insightful journey	Robin Lemmens (UZ Leuven)	Plenary
14:00-14:20	Biomarker analysis & results	Hugo ten Cate	Plenary
14:20-14:40	Thrombus analysis	Heleen van Beusekom	Plenary
14:40-15:30	<b>Data collection on long term outcomes</b> We aim to develop a generic cost-effectiveness model to evaluate innovations in stroke care triage and treatment. In this workshop, we will discuss the possibilities for data uniformity and harmonization to identify a minimal dataset which can be collected throughout the studies performed (in IMPULSE). The goal is to make the process of data collection more efficient, and to capture all relevant data items for analyses (including cost-effectiveness).	WP6/WP8	Parallel workshop
14:40-15:30	<b>Develop substudy proposals, ordinal regression analyses &amp; multiple imputation</b> This workshop will contain 3 parts. In part 1 we will highlight the current procedures for substudy proposals and anDREa. In part 2 we will discuss the benefit of ordinal logistic regression analysis vs. binary logistic regression analysis of mRS. In part 3 we will discuss multiple imputation for missing data	WP6	Parallel workshop
15:30-15:50	Tea break and poster viewing		
15:50-16:10	CONTRAST IMPULSE program	Aad van der Lugt / Yvo Roos	Plenary
16:10-16:40	CASES study (Aim, hypothesis, Approach)	Maarten Uyttenboogaart	Plenary
16:40-17:00	DIST study (Aim, hypothesis, Approach)	Karin Klijn	Plenary
17:00-17:20	Mevo study (Aim, hypothesis, Approach)	Julie Staals	Plenary
17:20-17:30	Closure	Charles Majoie	Plenary
17:30-...	Drinks & Bites		

## Keynote lecture: Imaging of the brain in stroke beyond NCCT: a continue challenging but insightful journey

Brain imaging is the cornerstone for the treatment of acute stroke. For many years this was limited to plain CT, as feasibility of performing MRI in all stroke patients was challenging. Later, CT angiography and perfusion were implemented to gain more insights in changes in brain perfusion during acute ischemic stroke. Both conceptual and technical limitations need to be taken into account in this process. Combining the various imaging techniques will provide clinicians with the most optimal approach to at least partially understand the hemodynamic changes in the brain and potential evolution over time. During the lecture I will try to give an overview of the historical context of imaging based selection as well as future prospects.

Prof. Robin Lemmens is a neurologist with specific certification in rehabilitation and the head of the stroke unit at the University Hospitals Leuven. He graduated from the KU Leuven Medical School in 2003, obtained his PhD in 2009 and finished his residency in Neurology in 2010. His main research interests are imaging of acute stroke focusing on the role of MRI and CT perfusion for prediction of outcome including artificial intelligence and stroke recovery. In 2012-2013 he was a visiting neurologist and researcher at Stanford where he worked with Dr Gregory Albers and Dr Gary Steinberg. After his return to Belgium he continued his clinical activities for patients confronted with cerebrovascular diseases and his research activities in neuroimaging and stroke recovery. Since 2012 he is a clinical investigator of FWO Flanders and in 2015 he became national coordinator of a FP7 European project. Additionally he is national coordinator of clinical trials in acute stroke treatment and secondary stroke prevention, successfully submitted a TBM grant proposal for a secondary stroke prevention trial in Belgium and he obtained a Horizon 2020 grant proposal as a co-promotor and national coordinator. He was granted IWT Innovage funding in 2014 to improve rehabilitation following stroke for elderly patients.

He has published over 200 research papers and supervises several PhD students. He is a fellow and member of Board of Directors of the European Stroke Organization, previous Chair of ESOTA (European Stroke Organisation Trials Alliance) and vice-chair of the Belgian Stroke Council. He serves on several committees and boards at the University Hospitals Leuven and KU Leuven.

