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12:30 - 14:00	Conference registration opens ♥ Ground Floor F Setting up posters ♥ First Floor Foyer (Wandelhalle)	oyer
14:00 - 14:15	Opening address ♥ Lecture Hall Linda Heskamp, UMC Utrecht, Netherlands Jordi Diaz-Manera, Newcastle University, UK	
14:15 - 16:15	Educational sessions	
	Muscle MRI in clinical trials • Raum B. v. Langenbeck	Ultrasound of muscles and nerves
14:15 - 14:45	Reproducible MRI protocols for multiple studies Donnie Cameron, Radboud University Medical Centre, Netherlands	Brachic plexus and upper limb Afarine Madani, <i>Erasme University Hospital</i> , Belgium
14:45 -15:15	Vendor-independent programming to boost imaging use in multicenter studies Andreia Gaspar, <i>Universidade de Lisboa</i> , Portugal	Lower limb nerves Marie Faruch, Toulouse University Hospital, France
15:15 - 15:45	Tips and tricks for imaging processing Francesco Santini, <i>University of Basel,</i> Switzerland	Advanced ultrasound for muscle Carlo Martinoli, <i>University of Genoa, Italy</i>
15:45 - 16:15		Advanced ultrasound for nerves Stephan Goedee, <i>UMC Utrecht, Netherlands</i>
16:15 - 16:45	Networking break ♥ Ground Floor Foyer	
16:45 - 17:35	The ins and outs of skeletal muscle Raum B. v. Langenbeck	Exotic contrasts • Lecture Hall
16:45 - 17:10	Basic muscle physiology: Pompe disease Anne Schänzer, Justus-Leibig University Giessen, Germany	Biophysical modelling of muscle microstructure Martijn Froeling, <i>UMC Utrecht, Netherlands</i>
17:10 - 17:35	Clinical pathophysiology of neuromuscular disorders: LGMD Willem de Ridder, <i>Antwert University Hospital</i> , <i>Belgium</i>	CEST metabolic imaging of muscle Feliks Kogan, Stanford University, USA
17:35 - 18:35	Keynote lecture 1 ♥ Lecture Hall Treating NMD's - The future perspective of Andrew Blamire, Newcastle University, UK	on imaging





Monday, November 10th

08:00	Conference desk opens ♥ Ground Floor Foyer
09:00 - 11:15	Special focus session 1: Novel contrasts in imaging
09:00 - 09:25	Opportunities and challenges with sodium imaging Teresa Gerhalter, Medical University of Graz, Austria
09:25 - 09:50	Muscle fibrosis imaging with MRI: opportunities and challenges Aurea Bach, <i>University of Oxford, UK</i>
09:50 - 10:15	Potential of muscle fibrosis imaging with MSOT Lina Tan, Kinder-und Jugendklinik, Germany
10:15 - 11:15	Oral Presentations: Novel Contrasts in Imaging
10:15 - 10:30	O1.1 Non-Invasive assessment of histological changes in dystrophic and developing skeletal muscles in GRMD and control dogs Using Bi-Component T2 Relaxometry Mapping Ericky Caldas de Almeida Araujo, <i>Institute of Myology, France</i>
10:30 - 10:45	O1.2 Conventional and in-magnet cardiopulmonary exercise testing of patients with neuromuscular disease to investigate peripheral causes of exercise intolerance Melissa Hooijmans, <i>Vrije Universiteit Amsterdam, Netherlands</i>
10:45 - 11:00	O1.3 Mapping Skeletal Muscle Mitochondrial Oxidative Phosphorylation in Health and SMA using a novel technique OXCEST MRI Puneet Bagga, St. Jude Children's Research Hospital, USA
11:00 - 11:15	O1.4 Magnetization transfer imaging in late-onset Pompe disease Michele Giovanni Croce, <i>University of Pavia, Italy</i>
11:15 - 11:30	Networking break ♥ Ground Floor Foyer
11:30 - 12:30	Poster session 1 ♥ First Floor Foyer (Wandelhalle) Click here for details of Poster Session 1
12:30 - 13:30	Exhibition and lunch break ♥ Ground Floor Foyer
13:30 - 15:45	Special focus session 2: Changing diagnostic patterns and outcome measures in MRI
13:30 - 14:00	MRI as an outcome measure: correlation with function Doris Leung, Kennedy Krieger Institute, USA
14:00 - 14:30	MRI in myopathies: diagnosis, follow-up and opportunities for new techniques Fengdan Wang, <i>Peking Union Medical College Hospital, China</i>
14:30 - 15:45	Oral presentations: Changing diagnostic patterns and outcomemeasues in MR • Lecture Hall
14:30 - 14:45	O2.1 Towards an automated approach to muscle MRI segmentation, quantification and analysis for the characterisation and diagnosis of neuromuscular diseases Jose Verdu Diaz, Newcastle University, UK
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14:45 - 15:00	O2.2 Comparison of manual vs. Artificial Intelligence-based muscle segmentation for evaluating disease progression in patients with CMT1A David Bendahan, <i>CRMBM</i> , <i>France</i>
15:00 - 15:15	O2.3 Quantitative muscle MRI for imaging denervation-induced muscle changes in patients with chronic inflammatory demyelinating polyneuropathy (CIDP) Petros Dimitrios Chatziandreou, <i>RUHR University Bochum, Germany</i>
15:15 - 15:30	O2.4 The utility of quantitative MRI parameters in monitoring disease progression in patients with Muscular dystrophy type 2 Viktória Kokošová, <i>University Hospital Brno, Czechia</i>
15:30 - 15:45	O2.5 Quantitative muscle MRI in LGMDR1: Insights from a prospective longitudinal cohort study Robert Rehmann, Berufsgenossenschaftliches Universitätsklinikum Bochum Bergmannsheil, Germany
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15:45 - 16:15	Networking break ♥ Lecture Hall
15:45 - 16:15 16:15 - 17:15	-
	Networking break • Lecture Hall Keynote lecture 2: • Lecture Hall Muscle and nerve MRI, from research to clinical application Simonetta Gerevini, Asst Papa Giovanni XXIII, Italy





Tuesday, November 11th

08:00	Conference desk opens ♥ Ground Floor Foyer
09:00 - 11:15	Special focus session 1: o Lecture Hall Whole body imaging
09:00 - 09:30	Disease monitoring with whole body MR neurography Hans Katzberg, <i>University of Toronto, Canada</i>
09:30 - 10:00	Whole body MRI outcome measures in OPMD Jodi Warman, Ottowa Hospital Research Institute, Canada
10:00 - 11:15	Oral presentations on whole body imaging ♥ Lecture Hall
10:00 - 10:15	O3.1 Motor Unit Magnetic Resonance Imaging (MUMRI) as a novel biomarker in Spinal Muscular Atrophy (SMA) Matthew Birkbeck, Newcastle University, UK
10:15 - 10:30	O3.2 Fasciculations detection in the legs of healthy volunteers using DTI Karleen Oonk, <i>Umc Utrecht, Netherlands</i>
10:30 - 10:45	O3.3 MRI quantification of upper extremity muscle fat fraction in Dystrophinopathies: implications for mobility status stratification Kelly Rock, <i>University of Florida, USA</i>
10:45 - 11:00	O3.4 Rethinking diaphragm ultrasound: diaphragm thickening reflects lung volume not contractile effort Jeroen van Doorn, Radboud University Medical Center, Netherlands
11:00 - 11:15	O3.5 Bilateral analysis of upper limb endpoints in ambulant and non-ambulant Duchenne muscular dystrophy patients Michel Michaëls, Leiden University Medical Center, Netherlands
11:15 - 11:30	Networking break ♥ Lecture Hall
11:30 - 12:30	Poster session 2 ♥ First Floor Foyer (Wandelhalle) Click here for details of Poster Session 2
12:30 - 13:30	Exhibition and lunch break • Ground Floor Foyer
13:30 - 15:30	Special focus session 2: o Lecture Hall Technological innovations
13:30 - 14:45	Oral presentations on technological innovations ♥ Lecture Hall
13:30 - 13:45	O4.1 Non-invasive MRI monitoring of glycogen accumulation in a mouse model of Pompe disease Nirbhay Yadav, <i>Johns Hopkins University, USA</i>
13:45 - 14:00	O4.2 Mapping lung function in Late-Onset Pompe Disease using Label-free Functional MRI Lina Tan, Kinder- & Jugendklinik, Germany
14:00 - 14:15	O4.3 Comprehensive muscle tissue evaluation via whole-body MR Fingerprinting Constantin Slioussarenko, <i>Institute of Myology, France</i>







14:15 - 14:30	O4.4 Assessing isometric muscle strength using shape and fiber orientation
	models
	Salim Bin Ghouth, NYU Langone Health, USA
14:30 - 14:45	O4.5 Open MRI Pipeline for muscle strain calculation Marta Brigid Maggioni, <i>University of Basel, Switzerland</i>
14:45 - 15:15	Advanced MRI neurography
	Christoph Mooshage, University Hospital Heidelberg, Germany
15:15 - 15:45	Ultrafast MRI imaging
	Nicol Seiberlich, University of Michigan in Ann Arbor, USA
15:45 - 16:00	Prize giving and closing of Conference ♥ Lecture Hall Linda Heskamp, UMC Utrecht, Netherlands Jordi Diaz-Manera, Newcastle University, UK





Preliminary Appendix (subject to change)



Monday, November 10th

11:30 - 12:30	Poster session 1 ♥ First Floor Foyer (Wandelhalle)
	P1.01 Volume of fasciculation measured on diffusion-weighted MRI correlates with muscle weakness in older adults Gabrielle Baxter, NYU Grossman School of Medicine, USA
	P1.02 Intraepineurial fat fraction: A novel MR Neurography-based biomarker in Transthyretin amyloidosis polyneuropathy David Bendahan, <i>CRMBM France</i>
	P1.03 Deciphering of skeletal muscle involvement in cystinosis with whole-body muscle MRI Edouard Berling, <i>Raymond Poincaré University Hospital, France</i>
	P1.04 Rotator cuff using a fresh cadaveric pig model David Berry, <i>University of California, San Diego, USA</i>
	P1.05 From Histology to Simulation: Open-source muscle phantoms for diffusion MRI modeling David Berry, <i>University of California, San Diego, USA</i>
	P1.06 Pre- and post-skeletal muscle biopsy quantitative magnetic resonance imaging reveals correlations with histopathological findings Alice De Lorenzo, <i>BG Universitätsklinikum Bergmannsheil, Germany</i>
	P1.07 Withdrawn P1.08 MYO-RESO: Quantitative muscle MRI as biomarker of muscle involvement
	in myotonic dystrophy type I Sebastian Ariel Figueroa Bonaparte, <i>Hospital Universitario Germans Trias i Pujol, Spain</i>
	P1.09 Quantitative muscle MRI in inclusion body myositis (IBM): A prospective cohort study Johannes Forsting, <i>Bg University Hospital Bergmannsheil, Ruhr-University Bochum, Germany</i>
	P1.10 Evaluation of cell diameter distribution in a cross-sectional cohort and its correlation with muscle force. Martijn Froeling, <i>Umc Utrecht, Netherlands</i>
	P1.11 Effect of gradient non-linearity correction on whole leg Diffusion Tensor Imaging Martijn Froeling, <i>Umc Utrecht, Netherlands</i>
	P1.12 A Non-invasive exploration of the pathophysiology of Chronic Exertional Compartment Syndrome Madison George, <i>Stanford University, USA</i>
	P1.13 Muscle diffusion tensor imaging in Late-Onset Pompe Disease Giulia Guicciardi, <i>University of Pavia, Italy</i>





Preliminary Appendix (subject to change)



P1.15 Determinants of qMRI variation in skeletal muscle: Effects of sex, age and mucle volume Linda Heskamp, <i>Umc Utrecht, Netherlands</i>
P1.16 Whole-body DTI for assessing fasciculation and muscle microstructure in ALS in 10 minutes Linda Heskamp, <i>Umc Utrecht, Netherlands</i>
P1.17 Dynamics not Magnitude of exercise hyperemia correlate with aerobic muscle metabolic performance Melissa Hooijmans, Vrije Universiteit, Netherlands
P1.18 Advancing clinical trials in myotonic dystrophy type 1: refining radiological, clinical and patient-reported outcome measures Louise Iterbeke, <i>KU Leuven, Belgium</i>
P1.19 Quadriceps fatiguability and recovery after exercise through the menstrual cycle Carly Jones, Stanford University, USA
P1.20 Progression of Miyoshi muscular dystrophy in thigh muscles monitored by quantitative MRI Ivica Just, <i>Medical University of Vienna, Austria</i>
P1.21 Tracking muscle degeneration and disease activity in FSHD using Qualitative Longitudinal MR Imaging Teresa Gerhalter, <i>Medical University of Graz, Austria</i>
P1.22 Multi-parametric 1H MRI of lower leg muscle in patients with Becker muscular dystrophy Yvonne Mileder, <i>Tu Graz, Austria</i>
P1.23 Baseline quantitative whole-body muscle MRI and functional outcomes from a prospective natural history study in adults with FSHD1 Matthias Opsomer, <i>KU Leuven, Belgium</i>



Preliminary Appendix (subject to change)



Tuesday, November 11th

11:30 - 12:30	Poster session 2 9 First Floor Foyer (Wandelhalle)
	P2.01 Personalized progressive resistance training and towards muscle profiling in patients with neuromuscular diseases Lisa Pomp, <i>Umc Utrecht, Netherlands</i>
	P2.02 Associations between MRI muscle structure and tensiomyography contractile parameters in older adults Katarina Puš, <i>Science and Research Centre Koper, Slovenia</i>
	P2.03 Investigating the effect of pulse-width in NMES with dynamic MRI in the forearm muscles Sabine Räuber, <i>University of Basel, Switzerland</i>
	P2.04 The "muscle toolbox": A multi-center multi-parametric natural history study in children with neuromuscular diseases using a harmonized protocol Susi Rauh, <i>Leiden University Medical Center, Netherlands</i>
	P2.05 Deep automatic and interactive segmentation in MRI of pathological skeleta muscles Louis Rigler, <i>Institute of Myology, France</i>
	P2.06 MRI quantification of lower body muscle fat fraction is associated with NSAI functional decline in men with Becker muscular dystrophy Kelly Rock, <i>University of Florida, USA</i>
	P2.07 Determining the repeatability of the rapid qDESS sequence in the quantification of muscle-water T2 of the upper leg Gabriel Rossetto, <i>Newcastle University, UK</i>
	P2.08 Use of a rapid qDESS sequence to measure skeletal muscle T2 during intense exercise compared with MESE and spectroscopy Gabriel Rossetto, <i>Newcastle University, UK</i>
	P2.09 MyoQMRI 2.0 - A comprehensive open-source pipeline for quantitative muscle imaging Francesco Santini, <i>University of Basel, Switzerland</i>
	P2.10 Quantitative muscle MRI to assess muscle tissue preservation during a 10-Day extended fast: A Single-case pilot study Lara Schlaffke, BG Universitätsklinikum Bergmannsheil gGmbH / FH Dortmund, Germany
	P2.11 Agreement between 3D ultrasound and DTI for assessing tibialis anterior muscle architecture - a pilot study Lara Schlaffke, BG Universitätsklinikum Bergmannsheil gGmbH / FH Dortmund, Germany
	P2.12 Spatial heterogeneity of strain from dynamic magnetic resonance imaging using automated anatomically relevant partitioning of individual calf muscles

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P2.13 Body Mass Index related differences in strains and co-activation in calf muscles using compressed sensing accelerated 4D Flow Magnetic Resonance Imaging Shantanu Sinha, <i>University of California San Diego, USA</i> P2.14 A simulation framework for dynamic phase-contrast MRI of the muscle Maike Smit, <i>Leiden University Medical Center (LUMC)</i> , <i>Netherlands</i> P2.15 Evaluation of quantitative muscle MRI and intelligent phenotyping housing system as advanced and objective phenotyping methods in a mouse model of calpainopathy Lara Schlaffke, <i>BG Universitätsklinikum Bergmannsheil gGmbH / FH Dortmund, Germany</i> P2.16 Cross-manufacturer comparison of quantitative muscle MRI in healthy volunteers Johanna Thomä, <i>BG University Hospital Bergmannsheil Bochum, Germany</i> P2.17 Development of a quantitative muscle ultrasound protocol for murine models of neuromuscular disorders Jeroen van Doorn, <i>Radboud University Medical Center, Netherlands</i> P2.18 Respiratory muscle shear wave elastography to assess respiratory muscle function in congenital myopathies Jeroen van Doom, <i>Radboud University Medical Center, Netherlands</i> P2.19 Spatiotemporal relationship between hamstring muscle activation and strain rate during dynamic knee flexion: A combined multi-channel electromyography and 3D time-resolved phase contrast study Luuk Vos, <i>Amsterdam Umc, Netherlands</i> P2.20 Correlations between muscle fat fraction MRI and instrumented gait assessments in Dysferlinopathy patients lan Wilson, <i>Newcastle University, UK</i> P2.21 Blood flow restriction training induced morphology changes in M. quadriceps femoris — a prospective pilot study Lionel Butty. <i>BG University Hospital Bergmannsheil Bochum, Germany</i>	
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