

Publikationsliste

Originalarbeiten

- Goubergrits L, Hellmeier L, Neumann D, Mihalef V, Gulsun MA, Chinali M, Secinaro A, Runte K, Schubert S, Berger F, Kuehne T, Hennemuth A, Kelm M: *Patient-specific requirements and clinical validation of MRI-based pressure mapping: A two-center study in patients with aortic coarctation: MRI-Based Pressure Mapping*. Journal of Magnetic Resonance Imaging 11/2018
- Gsell MAF, Augustin CM, Prassl AJ, Karabelas E, Fernandes JF, Kelm M, Goubergrits L, Kuehne T, Plank G: *Assessment of wall stresses and mechanical heart power in the left ventricle: Finite element modeling versus Laplace analysis*. Int J Numer Method Biomed Eng. 2018 Aug 27:e3147 08/2018
- Vellguth K, Brüning J, Goubergrits L, Tautz L, Hennemuth A, Kertzsch U, Degener F, Kelm M, Sündermann S, Kuehne T: *Development of a modeling pipeline for the prediction of hemodynamic outcome after virtual mitral valve repair using image-based CFD*. International Journal of Computer Assisted Radiology and Surgery 07/2018
- Fernandes JF, Alves R, Ferreira da Silva T, Nordmeyer S, Hellmeier F, Goubergrits L, Hennemuth A, Berger F, Schubert S, Kuehne T, Kelm M: *CMR-Based and Time-Shift Corrected Pressure Gradients Provide Good Agreement to Invasive Measurements in Aortic Coarctation*. JACC. Cardiovascular imaging 05/2018; 11(11).
- Stoiber L, Mahfoud F, Zamani SM, Lapinskas T, Böhm M, Ewen S, Kulenthiran S, Schlaich MP, Esler MD, Hammer T, Stensæth KH, Pieske B, Dreysse S, Fleck E, Kühne T, Kelm M, Stawowy P, Kelle S: *Renal sympathetic denervation restores aortic distensibility in patients with resistant hypertension: data from a multi-center trial*. Clinical Research in Cardiology 03/2018; 107(10108).
- Itu L, Neumann D, Mihalef V, Meister F, Kramer M, Gulsun M, Kelm M, Kühne T, Sharma P: *Non-invasive assessment of patient-specific aortic haemodynamics from four-dimensional flow MRI data*. Interface focus: a theme supplement of Journal of the Royal Society interface 02/2018; 8(1):20170006.
- Kelm M, Goubergrits L, Bruening J, Yevtushenko P, Fernandes JF, Sündermann SH, Berger F, Falk V, Kuehne T, Nordmeyer S: *Model-Based Therapy Planning Allows Prediction of Haemodynamic Outcome after Aortic Valve Replacement*. Nature Scientific Reports 12/2017; 7(1).
- Bruening J, Hellmeier F, Yevtushenko P, Kelm M, Nordmeyer S, Sündermann SH, Kuehne T, Goubergrits L: *Impact of Patient-Specific LVOT Inflow Profiles on Aortic Valve Prosthesis and Ascending Aorta Hemodynamics*. Journal of Computational Science 11/2017
- Hellmeier F, Nordmeyer S, Yevtushenko P, Bruening J, Berger F, Kuehne T, Goubergrits L, Kelm M: *Hemodynamic Evaluation of a Biological and Mechanical Aortic Valve Prosthesis Using Patient-Specific MRI-Based CFD*. Artificial Organs 08/2017
- Salcher M, Mcguire A, Muthurangu V, Kelm M, Kuehne T, Naci H: *Avoidable costs of stenting for aortic coarctation in the United Kingdom: an economic model*. BMC Health Services Research 04/2017; 17(258).

- Kühnisch J, Herbst C, Rafat AA, Al-Wakeel N, Degener F, Schmitt B, Kelm M, Kühne T, Messroghli D, Berger F, Klaassen S: The RIKADA Study: Next-Generation Sequencing of Pediatric Heart Failure Patients Identifies Novel Mutations in Cardiomyopathy Genes. *The Thoracic and Cardiovascular Surgeon* 02/2017; 65(S 02):S111-S142.
- Fernandes JF, Goubergrits , Brüning J, Hellmeier F, Nordmeyer S, Ferreira da Silva T, Schubert S, Berger F, Kuehne T, Kelm M: Beyond Pressure Gradients: The Effects of Intervention on Heart Power in Aortic Coarctation. *PLoS ONE* 01/2017; 12(1).
- Salcher M, Naci H, Pender S, Kuehne T, Kelm M: Bicuspid aortic valve disease: Systematic review and meta-analysis of surgical aortic valve repair. *12/2016; 3(2)*.
- Salcher M, Naci H, Law JT, Kuehne T, Schubert S, Kelm M, on behalf of Cardioproof Consortium: Balloon Dilatation and Stenting for Aortic Coarctation: A Systematic Review and Meta-Analysis. *Circulation Cardiovascular Interventions* 06/2016; 9(6).
- Kelm M, Goubergrits L, Fernandes JF, Biocca L, Pongiglione G, Muthurangu V, Khushnood A, Secinaro A, Chinali M, Schubert S, Berger F, Kuehne T: MRI as a tool for non-invasive vascular profiling: A pilot study in patients with aortic coarctation. *Expert Review of Medical Devices* 01/2016; 13(1):103-112.
- Neugebauer M, Glöckler M, Goubergrits L, Kelm M, Kuehne T, Hennemuth A. Interactive virtual stent planning for the treatment of coarctation of the aorta. *Int J Comput Assist Radiol Surg.* 2015
- Dold SK, Schmölder GM, Kelm M, Davis PG, Schmalisch G, Roehr CC. Training Neonatal Cardiopulmonary Resuscitation: Can It Be Improved by Playing a Musical Prompt? A Pilot Study. *Am J Perinatol.* 2014
- Kelm M, Dold SK, Hartung J, Breckwoldt J, Schmalisch G, Roehr CC. Manual neonatal ventilation training: a respiratory function monitor helps to reduce peak inspiratory pressures and tidal volumes during resuscitation. *J Perinat Med.* 2012 Sep;40(5):583-6.
- Roehr CC*, Kelm M*, Fischer HS, Bühner C, Schmalisch G, Proquitté, H. Manual ventilation devices in neonatal resuscitation: Tidal volume and positive pressure-provision. *Resuscitation* 2010; 81(2):202-205.
- Roehr CC*, Kelm M*, Proquitté H, Schmalisch G. Equipment and operator training denote manual ventilation performance in neonatal resuscitation. *Am J Perinatol* 2010; 27(9):753-758.
- Kelm M, Proquitté H, Roehr CC. Reliability of two common PEEP-generating devices used in neonatal resuscitation. *Klin Padiatr* 2009; 221(7):415-418.

* equally contributing authors (mit entsprechender Kennzeichnung im Artikel)

Buchartikel

- Kelm M, Röhr CC. Lungenprotektives Management bei der Reanimation und Erstversorgung von Früh- und Neugeborenen im Kreißsaal. 2012. *Anästhesiologie.* Eckart J, Jaeger K, Möllhoff T. *Ecomed, Heidelberg* 30. Erg.-Lfg. 11/12