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Symposium Translational Imaging

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Center for Translational Imaging (MoMAN)

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Translational aspects of MR-flow measurement in the cardiovascular system

Accelerated 4D-Flow-MRI offers detailed 3D-spatially and temporally resolved data on blood and tissue dynamics. However, these new method can hardly be found in the everyday clinical routine. Besides aspects of efficiency and patient comfort, one reason preventing the breakthrough of these exciting technique is the difficulty to identify significant biomarkers within the huge amount of flow-sensitive data. In this talk examples are shown how preclinical MR-flow measurement in mice and phantoms can help to identify relevant parameters in the human cardiovascular system. Important aspects are highlighted concerning the translation of imaging methods from mice to humans and vice versa.