

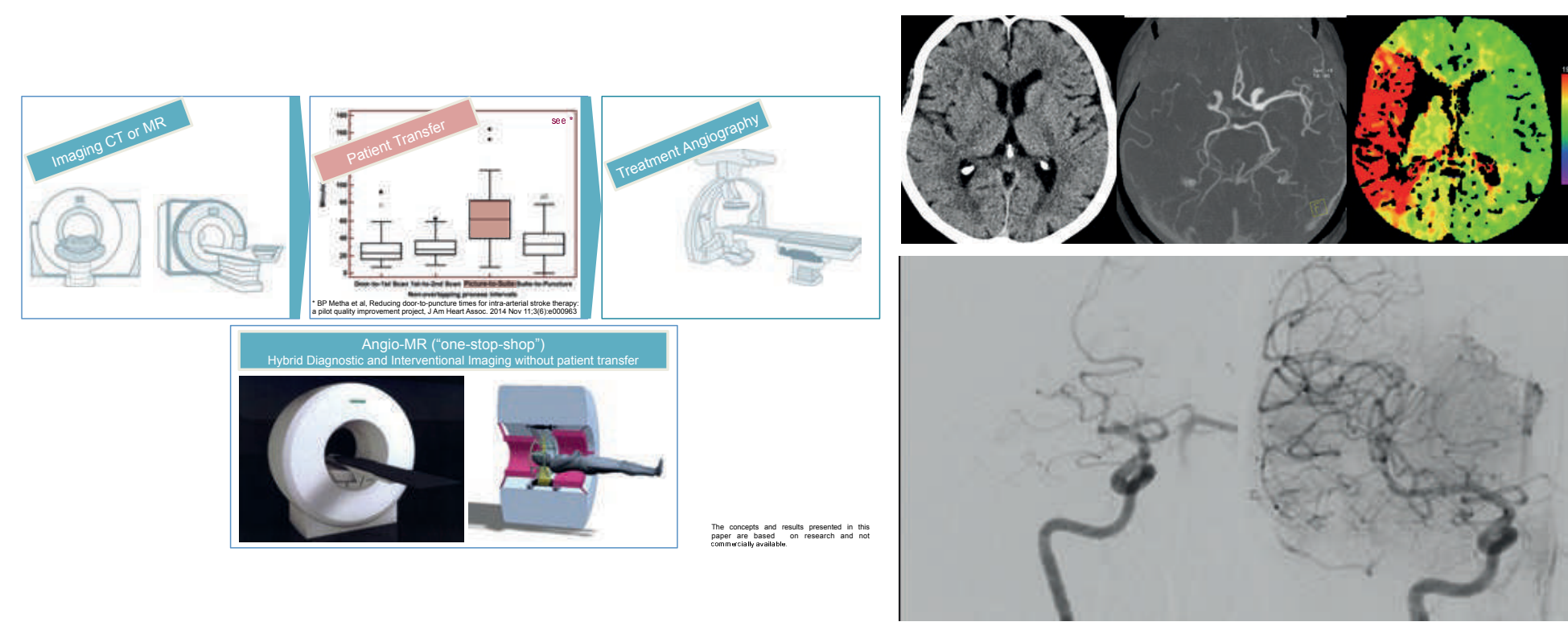
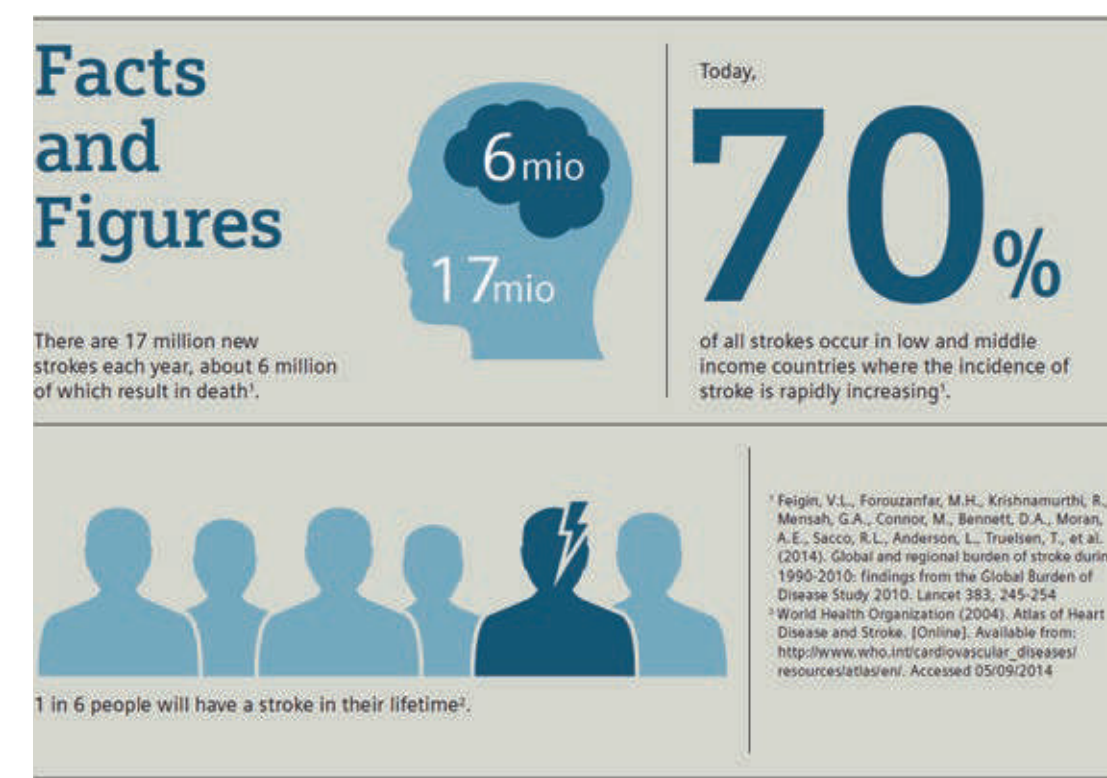
P3-Stroke

Early intervention / prevention / altering disease course trajectories

Project Type: Innovation by Design
Societal challenges: Improve healthcare

The project in a nutshell

Stroke is a leading cause of mortality and long-term disability. Today a stroke patient receives an initial diagnosis based on CT/MRI and is then transferred to the interventional angio-suite. Since "time is brain" any delay in stroke management should be minimized. To address this clinical need we are developing a hybrid Angio-MR system combining MRI with interventional angiography. This "one-stop shop" stroke machine would speed up acute stroke management, resulting in better patient outcomes.



Multimodal CT in acute stroke with subsequent mechanical thrombectomy
*Courtesy of Prof. A. Dorfler, Universitätsklinikum Erlangen.

Who benefits?

Improved healthcare for treatment of stroke and cardiac arrhythmia, reduced follow-up cost by improved patient outcomes, lower healthcare device investment at the point of care, propagation of entrepreneurship and new start-up business opportunities.

Where are you today and what is next?

Different AMR system concepts have been identified and are now under investigation. Clinical workflow analysis for acute stroke management with AMR revealed up to 30min time saving potential. Educational activities have been performed including an Innovation Management Seminar and online courses.



Identification of best AMR concept based on clinical workflow comparison to standard modalities including radiation protection and dose efficiency. New image processing algorithms for overlay and image fusion to be developed. Extend project to treatment of cardiac arrhythmia with catheter ablation

Project Leader



Other Partners

Universitätsklinikum Erlangen



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FRIEDRICH-ALEXANDER
UNIVERSITÄT
ERLANGEN-NÜRNBERG
TECHNISCHE FAKULTÄT

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We are looking for new Partners / Expertise



If you wish to collaborate with this project, scan the QR code and connect with it