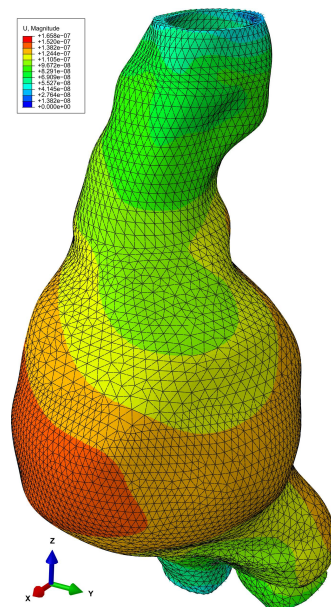


EPSRC WORKSHOP PROGRAMME

Elastic deformation and dynamic response of aneurysm repairs: modelling and applications

UNIVERSITY OF LIVERPOOL – FEBRUARY 2-3, 2017

Liverpool Centre for Mathematics in Healthcare



EPSRC

Engineering and Physical Sciences
Research Council



UNIVERSITY OF
LIVERPOOL

The registration and all presentations will be held in The Chapel of the Foresight Centre

Thursday 2 February 2017

09.00-10.00	Registration, coffee	
10.00-10.20	K. Langfeld (Head of Department, Mathematical Sciences, University of Liverpool)	Welcome
10.20-11.00	F. Torella (Royal Liverpool University Hospital)	Introduction to AAA, EVAR and EVAS
11.00-11.40	J.-P. de Vries (St. Antonius Hospital Nieuwegein, The Netherlands)	Displacement of fluid out the aortic intraluminal thrombus; results of a pilot study and consequences for EVAS
11.40-12.00	Coffee	
12.00-12.40	R. Fisher (Royal Liverpool University Hospital)	Modes and mechanisms of failure of EVAR/EVAS
12.40-13.20	P. Costandi (Endologix, USA)	Pressure propagation, investigations of the mechanics of migration and the development of predictive models
13.20-14.20	Lunch	
14.20-15.00	R. McWilliams (Royal Liverpool University Hospital)	Methods of imaging surveillance after EVAS/EVAR
15.00-15.40	L. Argani (University of Liverpool)	Modelling of deformation and dynamic response of abdominal aneurysm sealing
15.40-16.20	T. Papathanasiou (Brunel University London)	Modelling of wave reflection in multi-stented blood vessels
16.20	Coffee and Discussion	
18.00	Workshop Dinner at The Old Blind School Dining Rooms	

Friday 3 February 2017

09.00-09.20	Coffee	
09.20-10.00	J.-P. de Vries (St. Antonius Hospital Nieuwegein, The Netherlands)	New software to better determine endograft apposition in the aortic neck post-EVAR; how to early detect endograft positional changes
10.00-10.40	M. Wall (Russell Hall Hospital)	Aneurysm rupture - theoretical and practical challenges
10.40-11.00	R. Schuurmann (St. Antonius Hospital Nieuwegein, The Netherlands)	Evaluation of the curvature of the aortic trajectory in a study of the seal failure in the aortic neck
11.00-11.20	S. Frecentese (University of Liverpool)	Modelling of waves in stented blood vessels
11.20-11.40	Coffee and Discussion	
11.40-12.20	D. Bigoni (University of Trento, Italy)	Mechanical properties of non-linear biological materials: theoretical and experimental study
12.20-13.00	Y. Fu (Keele University)	Modelling of aneurysm initiation as a bifurcation phenomenon
13.00-14.00	Lunch	
14.00-14.40	J. Spencer (University of Liverpool)	Mathematical imaging and its medical applications
14.40-15.20	G. Mishuris (Aberystwyth University)	Modelling of Solid-Fluid interaction in biological ruptures
15.20-15.30	A. Movchan (University of Liverpool)	Closing
15.30	Coffee and Discussion	
