

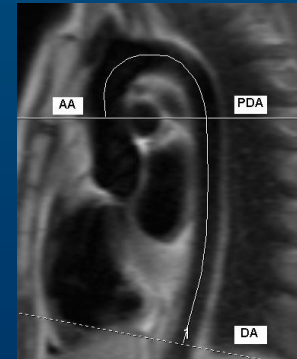
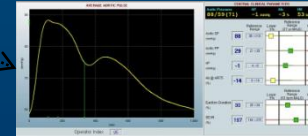
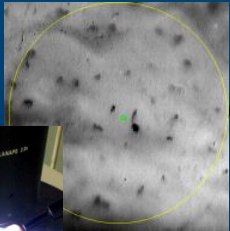
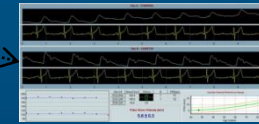
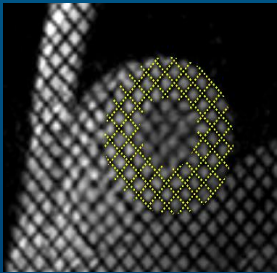
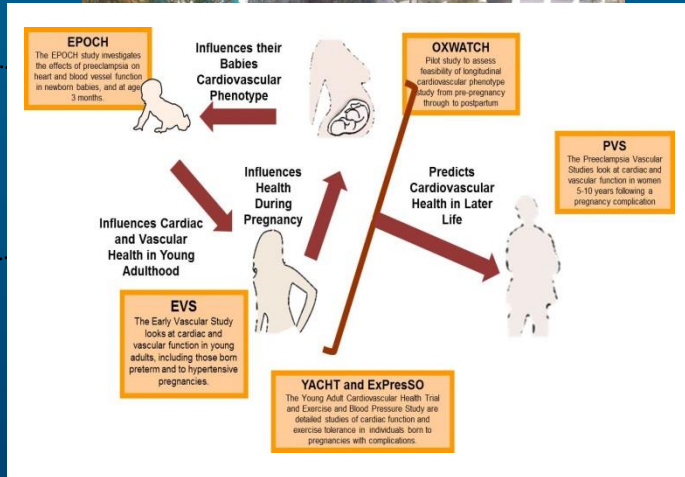
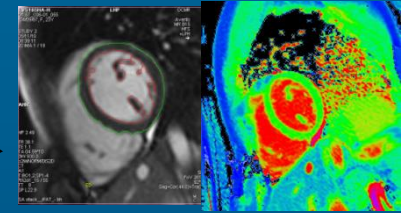
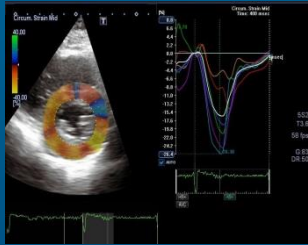
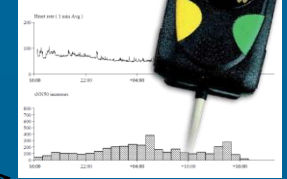
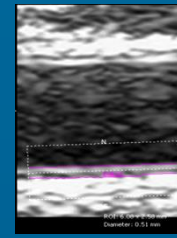
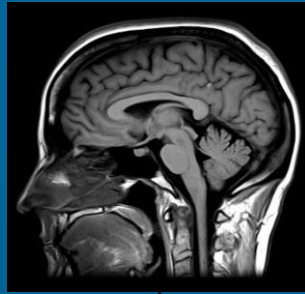
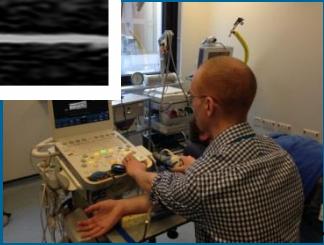
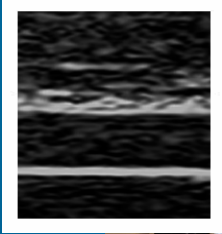


# Cardiovascular Imaging Derived Phenotypes

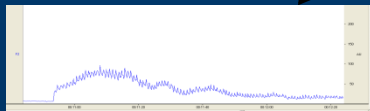
NIHR Statistics Meeting - 22<sup>nd</sup> October 2014

***Paul Leeson***

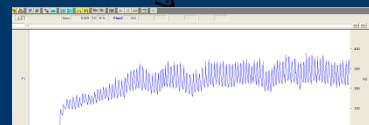
Professor of Cardiovascular Medicine, University of Oxford  
Clinical Director, Oxford Cardiovascular Clinical Research Facility



Unheated Skin



Heated Skin





## UK Biobank imaging study launched

[Read more...](#)



Listen again:UK Biobank Frontiers Meeting



UK Biobank imaging study launched



Hospital information boosts UK Biobank resource

## Participants

- [Update your contact details](#)
- [Genetic studies underway](#)
- [Find out how the resource is being used](#)
- [Access Procedures](#)

[Activity monitor →](#)

[Imaging study →](#)

[Look at the Data Showcase →](#)

## Scientists

- [Listen again: Frontiers Meeting](#)
- [NEW video: watch before applying](#)
- [UK Biobank Axiom Array](#)
- [UK Biobank Eye & Vision Consortium](#)

## News



1,000th participant joins UK Biobank



UK Biobank Eye & Vision Consortium launches website



New BMI thresholds suggested for ethnic minorities



Hear from the UK Government Scientific Adviser



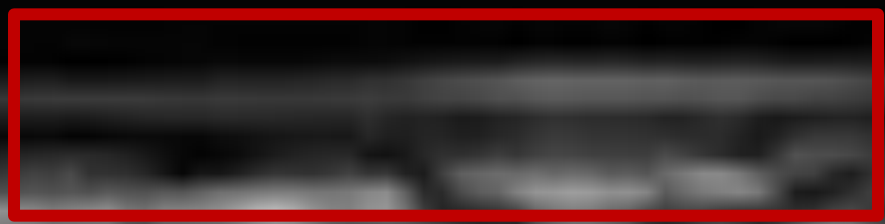
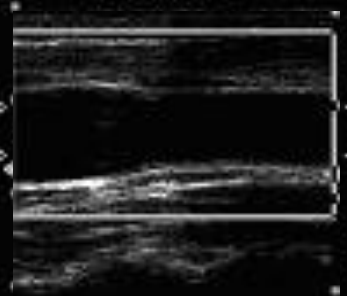
New approach to accelerate dementia research

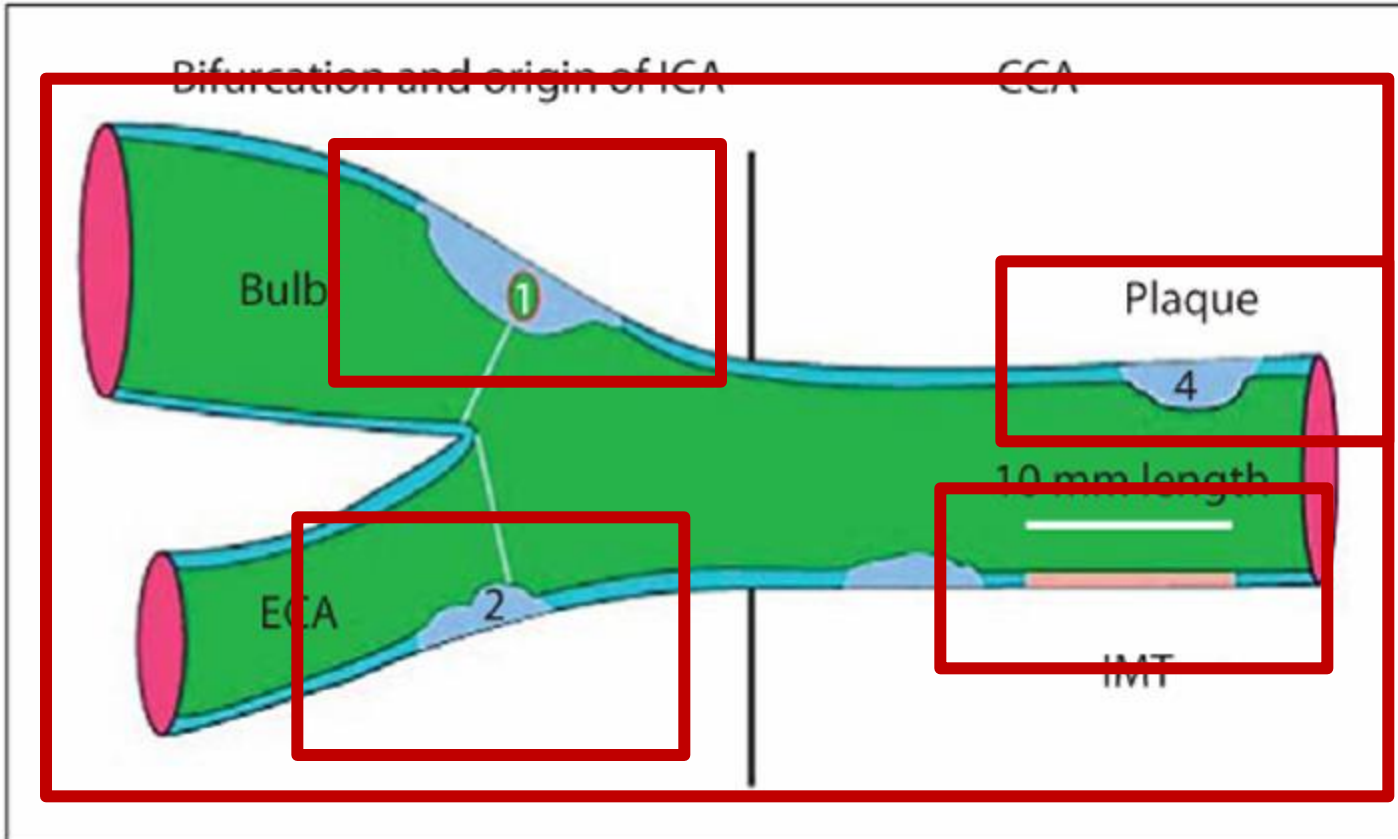


Smokers and passive smokers more likely to suffer hearing loss

MI: 0.4  
11-3L

GAIN 65 04602.08  
COMP 45 4CM  
20HZ 61BPM

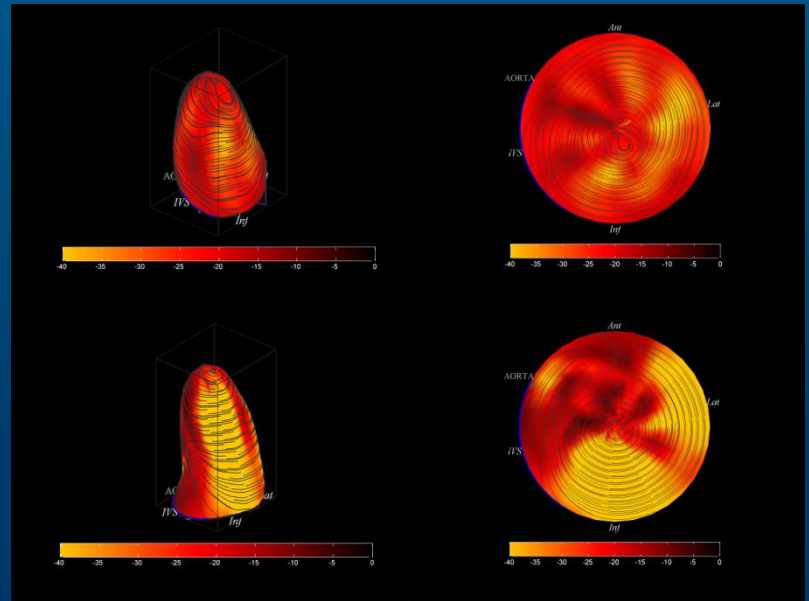
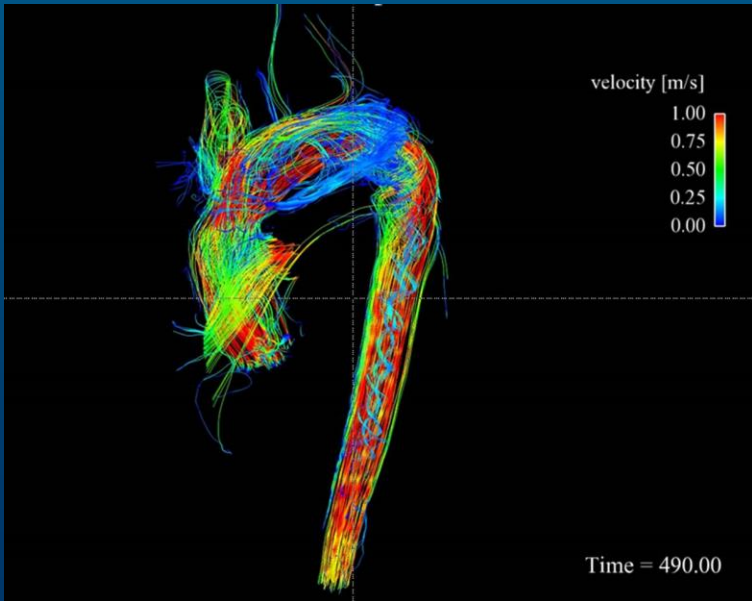
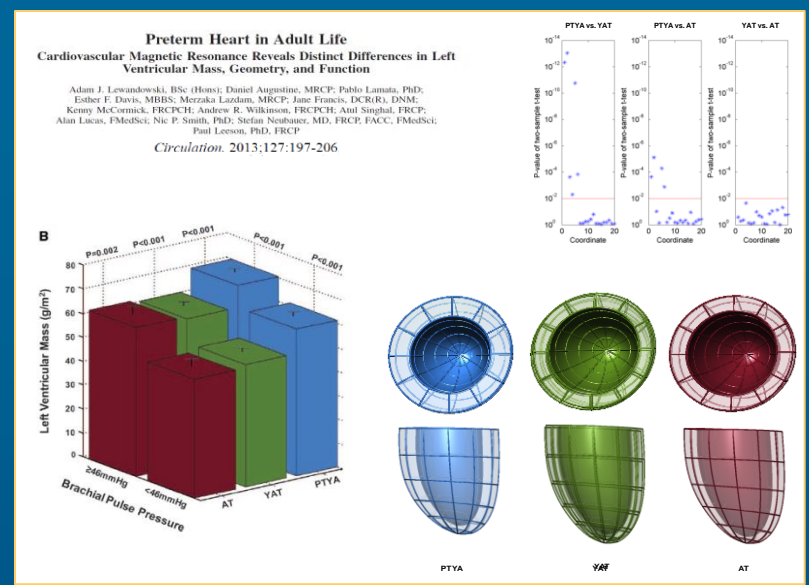
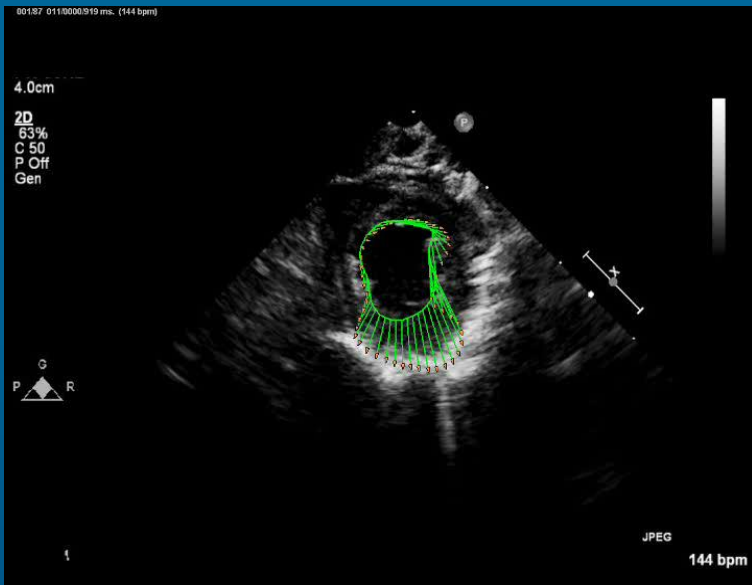




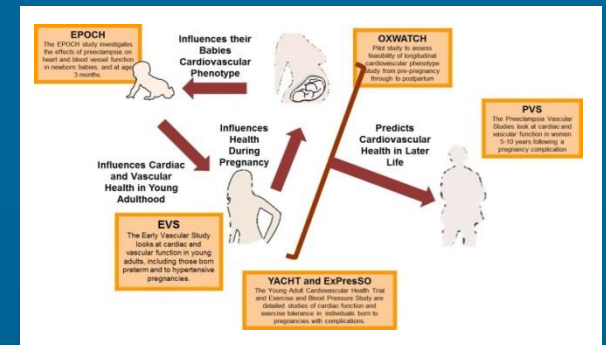
**Fig. 3.**  
 Drawn representation of carotid tree, with plaque and IMT measurement according to Mannheim consensus: (1) thickness  $>1.5$  mm; (2) lumen encroaching  $>0.5$  mm; (3, 4)  $>50\%$  of the surrounding IMT value.







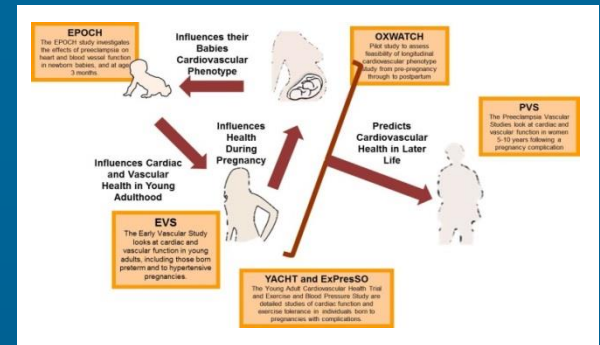
# PVS and YACHT



- Effect of preeclampsia on maternal (PVS) and young adult (YACHT) cardiovascular system
  - Vascular – microvascular/macrovascular
  - Cardiac
  - Biochemistry
- Predictors of later changes

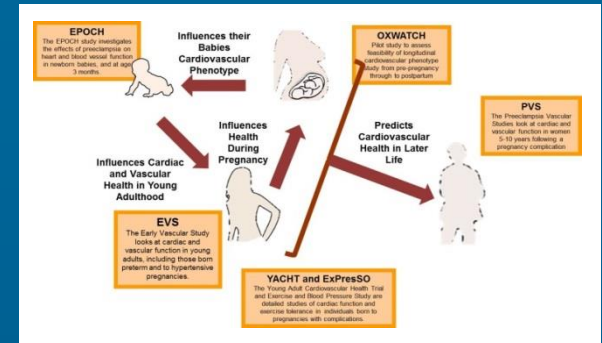


# EPOCH



- Effect of preeclampsia on offspring cardiovascular system
  - Vascular – microvascular/macrovascular
  - Cardiac
  - Biochemistry
- Longitudinal data – antenatal, perinatal, postnatal

# Intervention



- Effect of intervention e.g. exercise on cardiovascular system
  - Vascular – microvascular/macrovascular
  - Cardiac
  - Biochemistry

