The Aortic Big Picture

Life long **Aortic Health Care** for our local communities
Diagnosis (Emergency)

- Symptoms
- Emergency Room
- Diagnosis
- Transfer
- Rx

- Public awareness
- Physician awareness
- Biomarkers
- Imaging
Treatment

• Medical
  - Cardiology: imaging
  - Clinical Geneticist
  - Vascular Physician
  - Vascular Surgeon
  - Cardiac Surgeon
  - Intensivists
  - Cardiology: Complex hypertension

• Surgical
  - Aortovascular Surgery
    - Root repair
    - BEVAR
    - FET
    - Ross
    - Debranching
    - Open TAAA
    - Hybrid
    - Aortovascular Hub

Prophylaxis

- Primary
- Secondary

Blood pressure

Life style

Diabetes

Smoking

NHS Long Term Plan

#NHSLongTermPlan
Research

Basic Sciences
- LABB Group
- Biobank
- Biomechanics
- Structural biochemistry
- Aortopathy

Translational
- POC Testing
- i-Knife
- Biomarkers
- Renal protection
- Cerebral protection

Clinical
- Trials
- Registry
- PROMS
- Clinical outcomes
- Guidelines National Service

Start up projects
- Lipids
- NETS
- Flow dynamics
- Machine learning
- Mental health
- AF and the aorta
- Renal function POC testing
- Transcranial doppler
- Raman POC testing
Innovation in Services

- Northern Aortic Centre
- Global Aorta Project
- Liverpool Cardiovascular Surgery
- Aortic Service Innovation
- DATA Centre
- Integrated Care Network
- NW Acute Care Pathways

Global Aorta Project
Aortic Service Innovation
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Patient involvement

- Rehabilitation
- Education
- The Patient and family
- Buddy Systems
- Service improvement
- Research
- PROMS
GLOBAL Aorta

Raising awareness in health and disease

@Liverpool Heart and Chest Hospital 2021
The Aortovascular Hub - 2021
Risk factors:
- Hypertension
- Smoking
- Diabetes
- Dyslipidemia

Syndromes:
- Marfan
- Loeys-Dietz
- Elhers-Danlos
- Turners
- BAV

Intervention:
- Cardiac Surgery
- Vascular Surgery
- Cardiovascular surgery
- Interventional Radiology

Developmental variant and anomalous aortopathy

Acute disease:
- Dissection
- IMH

Infective Disease

Inflammatory Disease

Degenerative Aneurysmal Disease

Degenerative Occlusive Disease

Non-syndromic Aortopathy

Angiology

Cardiology

Vascular Medicine

Clinical Genetics

Imaging