

VEVO 3100 Mouse Cardiovascular Core

Division of Cardiovascular Disease Department of Medicine,
University of Alabama at Birmingham

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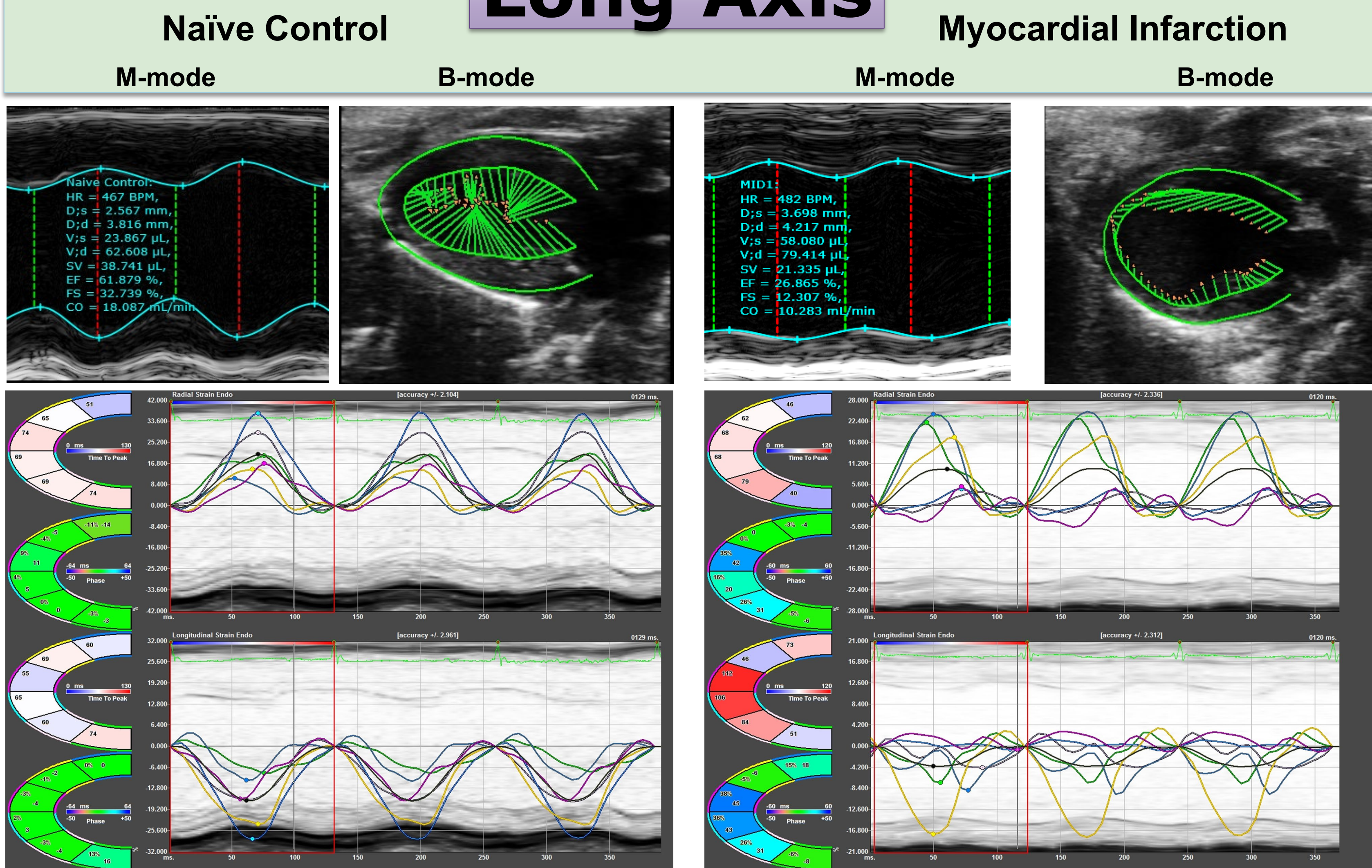


UAB SCHOOL OF MEDICINE
Division of Cardiovascular Disease

Core Mission

The mouse cardiovascular core's mission is to support cardiac function measurements (contractility, strain and synchronicity) and provide consultation on data analysis and study design.

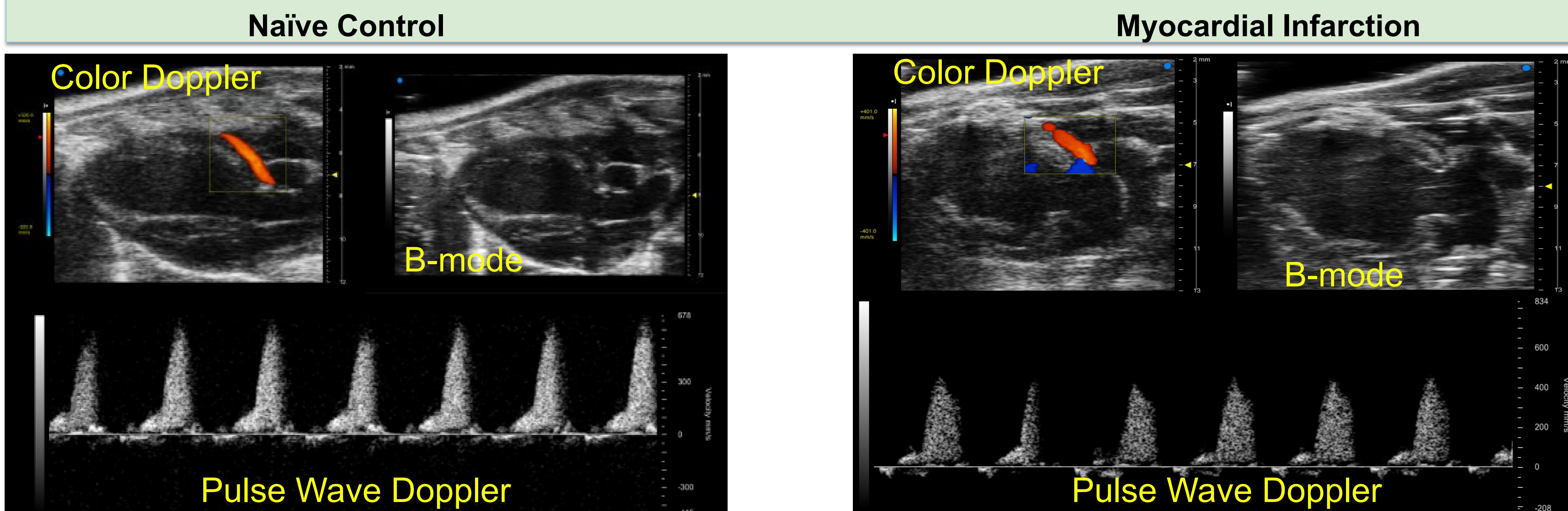
Long Axis



- Outcome:**
- Fractional Shortening
 - End systolic and diastolic volume
 - End systolic and diastolic dimension

- Strains
- Longitudinal strain (Long axis B-mode)
- Circumferential strain (short axis B-mode)
- Regional synchronicity

Parasternal Long Axis View



- Outcome:**
- Coronary Flow (mm/s)

- Left anterior descending coronary artery (LAD)
- Color Doppler analysis

VEVO 3100



Core Charges

Self-service	\$80.00/hr
Full-service	\$125.00/hr
Non-UAB full service	\$250.00/hr

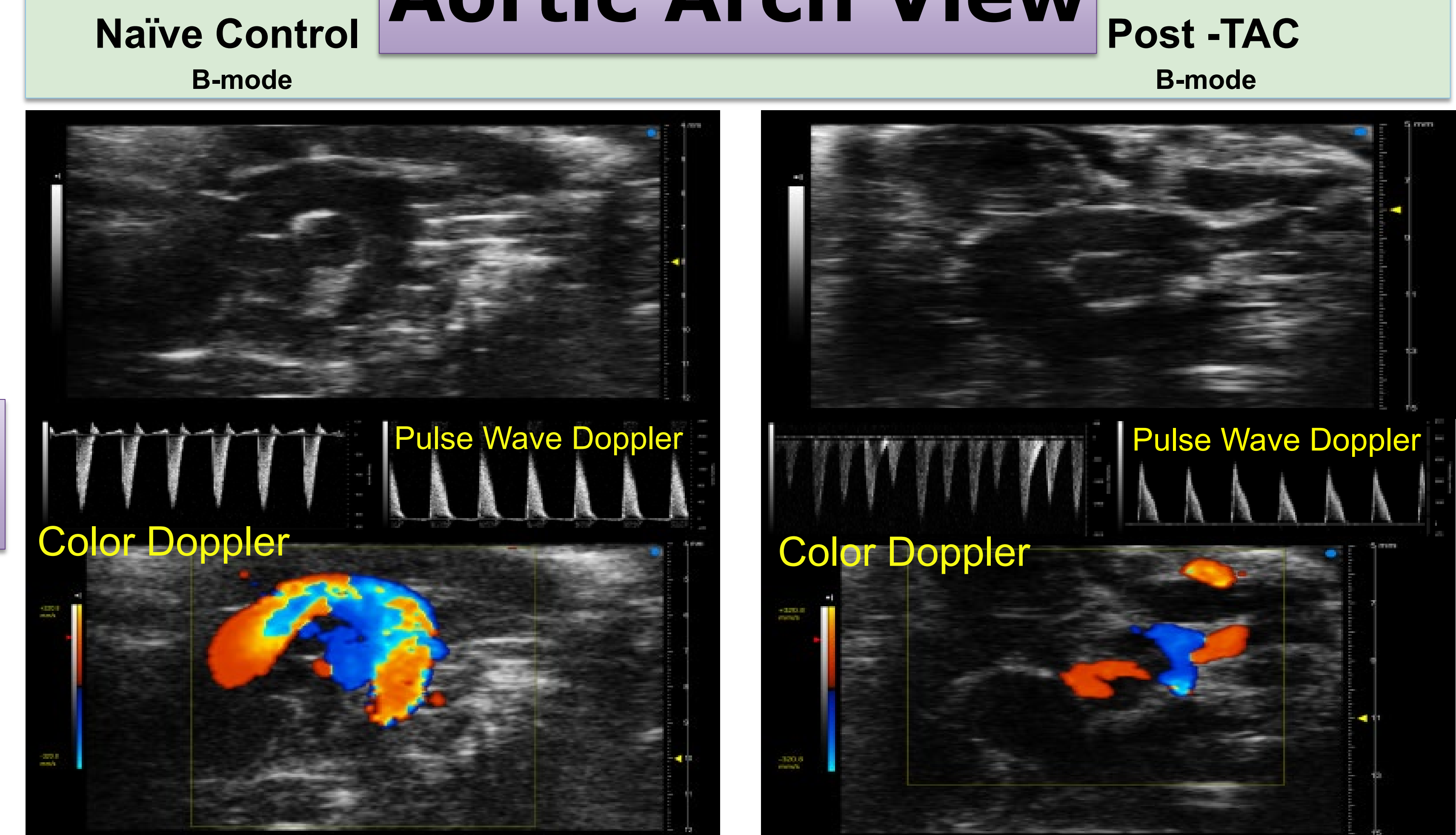
Core Location and Contact

Zeigler Research Building 305A
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Core Tools

Vevo 3100 Echocardiography (VisualSonics Inc. Canada) equipped with MX400, 22-55 MHz transducer, axial resolution 50μm allows crucial visualization and analysis of murine cardiovascular function, granting novel possibilities in cardiology research.

Aortic Arch View

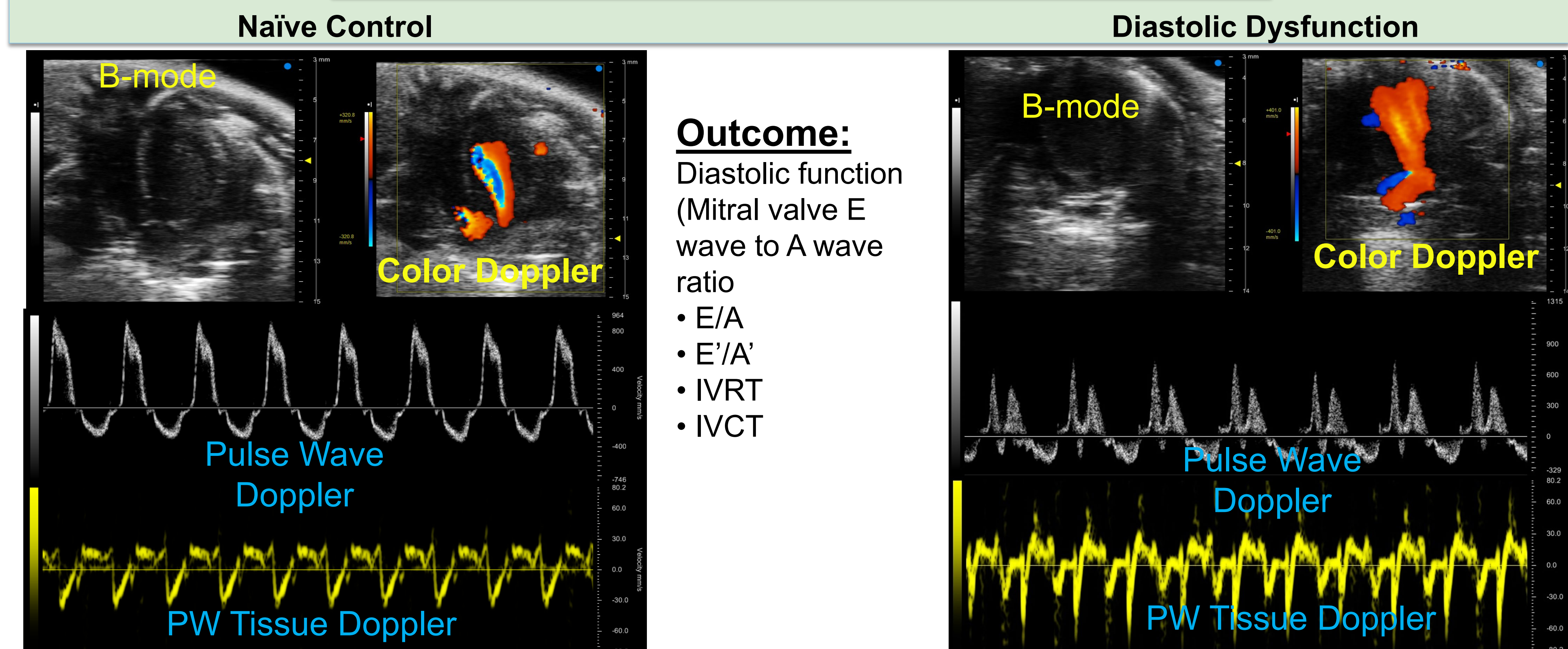


Outcome:

- Ascending Flow (mm/s)
- Left ventricle function

- Descending Flow (mm/s)
- Pressure gradient (mmHg)

Apical Four Chamber View



Outcome:

- Diastolic function (Mitral valve E wave to A wave ratio)
- E/A
 - E'/A'
 - IVRT
 - IVCT