

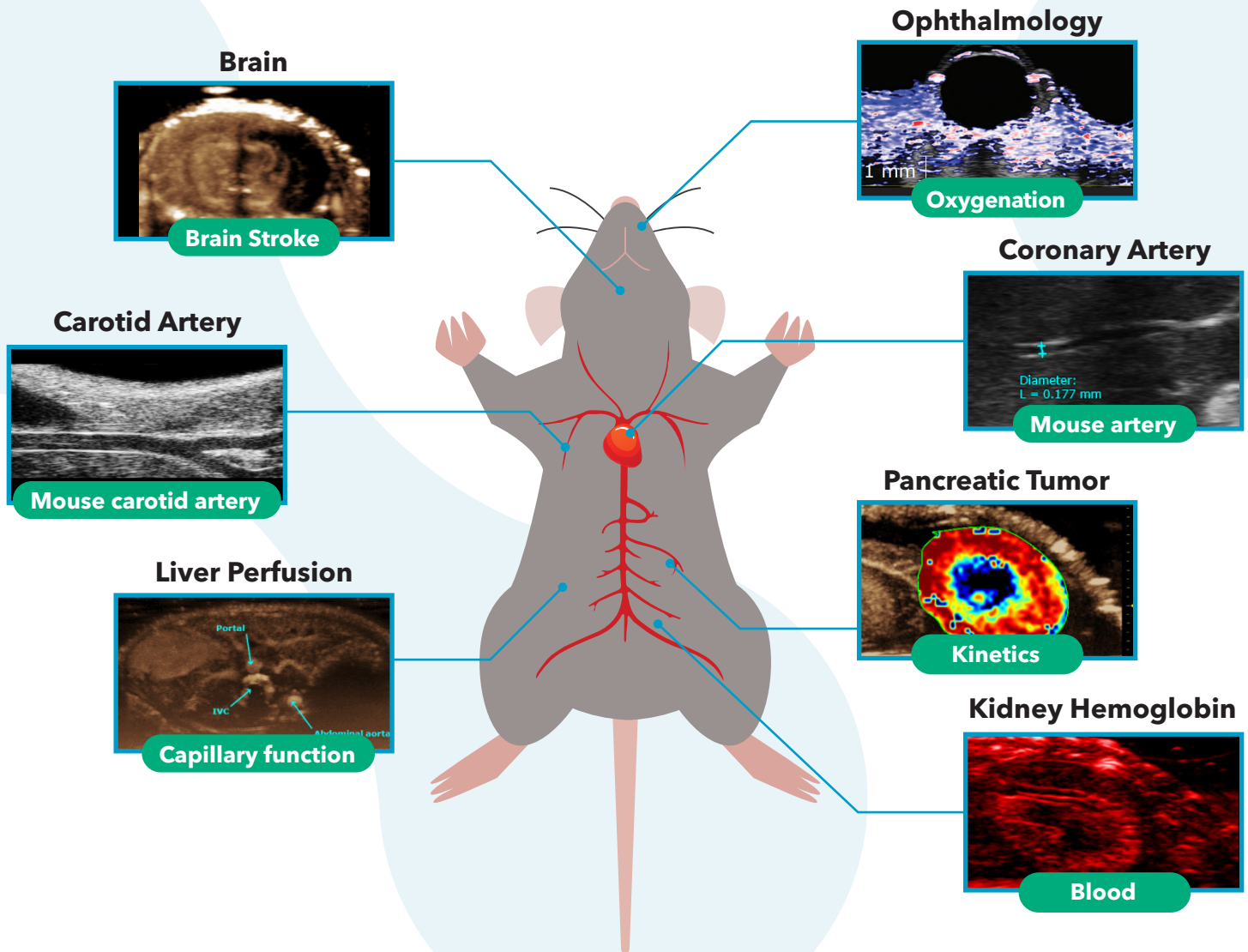
# Vevo for Vascular Imaging

Micro-ultrasound and Photoacoustic Imaging for Translational Vascular Imaging in Preclinical Animal Models



## Image numerous disease models—non-invasively, in real time

*Anatomical, functional, and molecular information*



- Angiogenesis
- Aneurysms
- Atherosclerosis
- Diabetes
- Ischemia reperfusion

- Peripheral artery disease
- Stroke
- Tumor microcirculation
- Vascular grafts

- Coronary flow reserve
- Myocardial perfusion
- Pulse wave propagation
- Oxygenation supply
- Vascular stiffness
- Vascular strain analysis

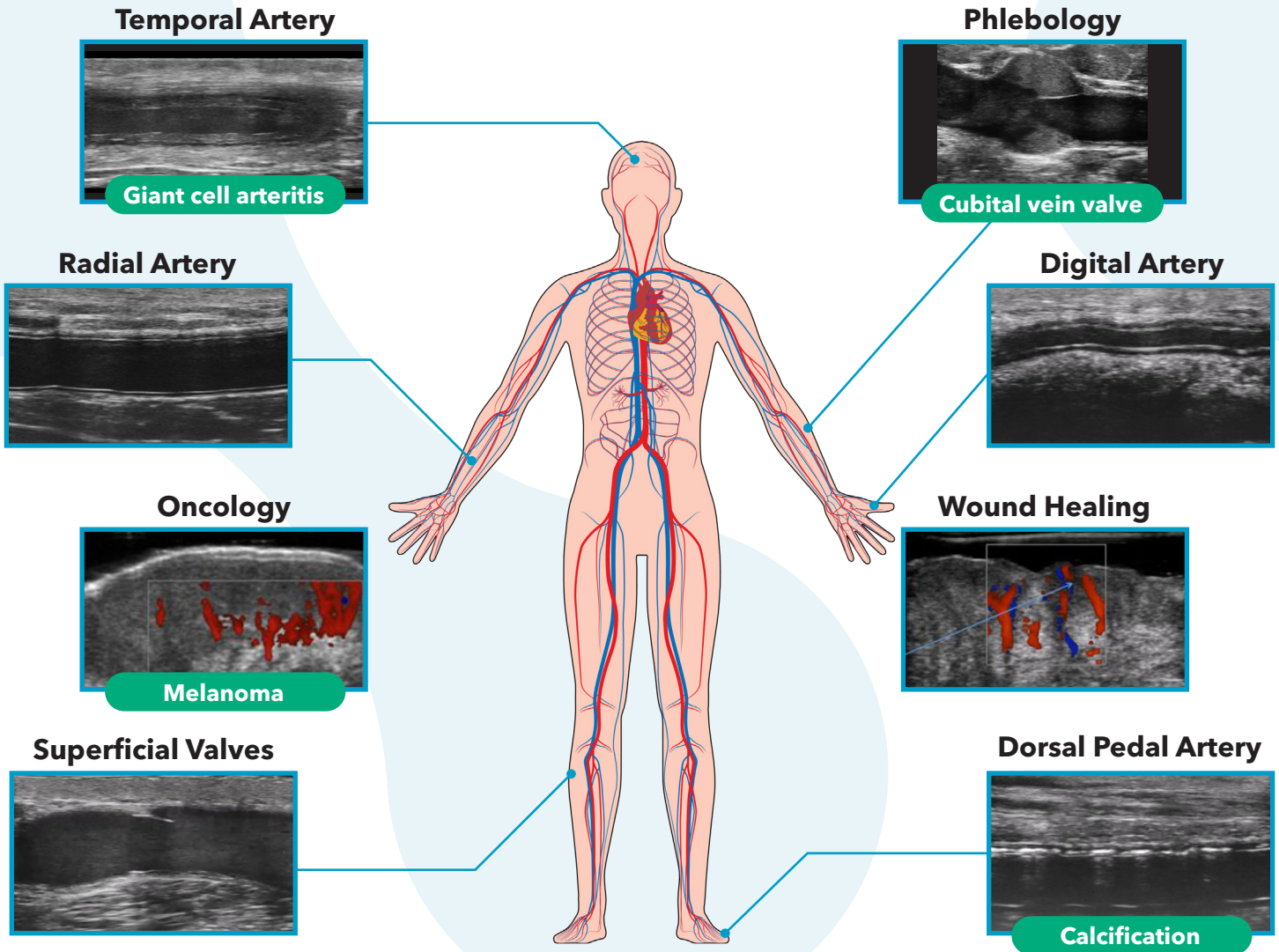
# Vevo for Vascular Imaging

Micro-ultrasound and Photoacoustic Imaging for Translational Vascular Clinical Imaging using the Vevo MD



## Ultra-high Frequency Ultrasound (up to 71 MHz)

Imaging with a resolution of 30  $\mu\text{m}$  (0.030 mm)



- Atherosclerosis
- Capillary perforators
- Giant cell arthritis

- Intima thickness
- Intima-media thickness
- Lymphatics

- Surgery mapping
- Vascular access
- Vascular aging
- Vascular stiffness