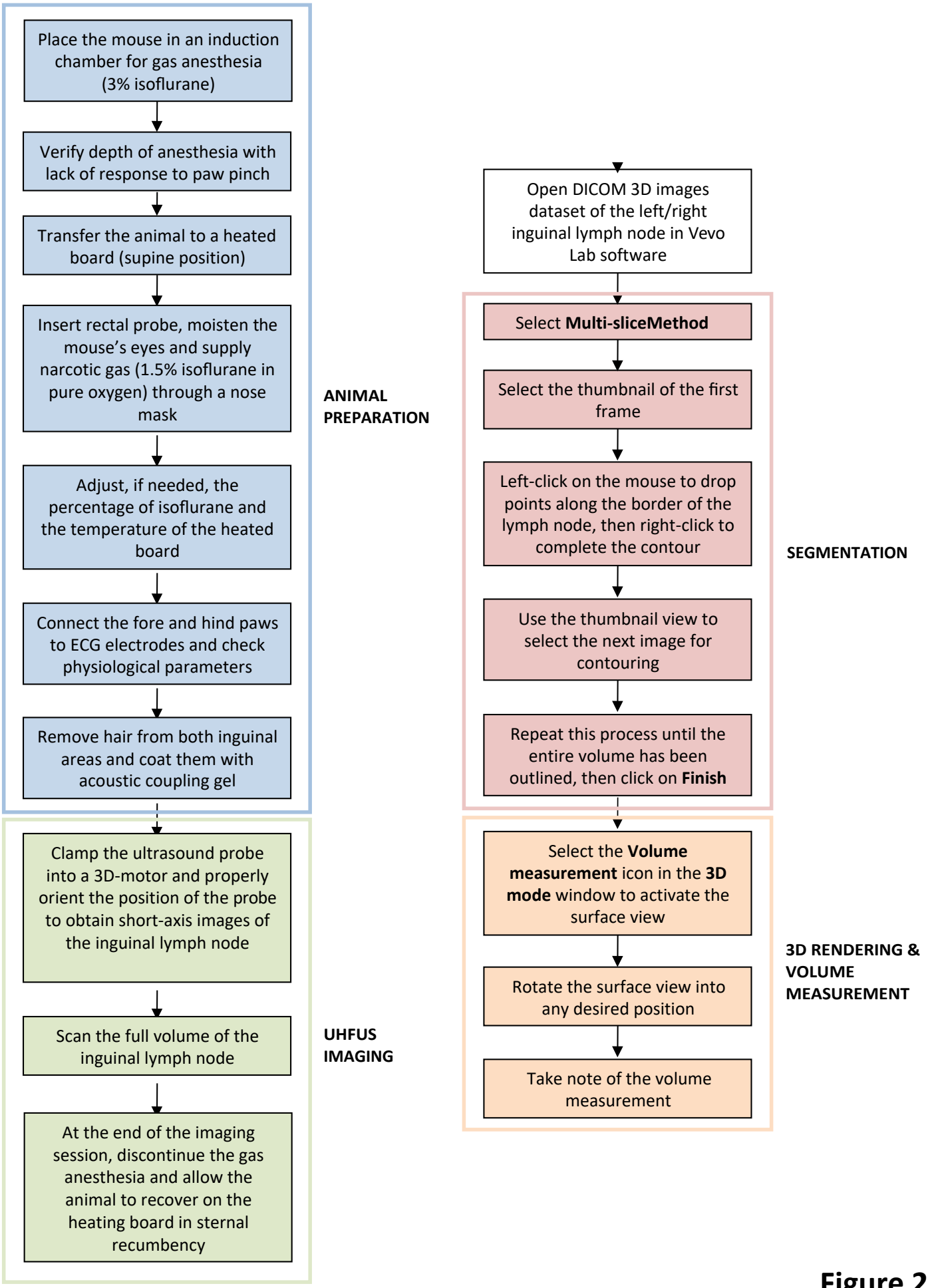
Place the mouse in an induction chamber for gas anesthesia (3% isoflurane)
Verify depth of anesthesia with lack of response to paw pinch
Transfer the animal to a heated board (supine position)
Insert rectal probe, moisten the mouse's eyes and supply narcotic gas (1.5% isoflurane in pure oxygen) through a nose mask
Adjust, if needed, the percentage of isoflurane and the temperature of the heated board
Connect the fore and hind paws to ECG electrodes and check physiological parameters
Remove hair from both inguinal areas and coat them with acoustic coupling gel
ANIMAL PREPARATION
Clamp the ultrasound probe into a 3D-motor and properly orient the position of the probe to obtain short-axis images of the inguinal lymph node
Scan the full volume of the inguinal lymph node
At the end of the imaging session, discontinue the gas anesthesia and allow the animal to recover on the heating board in sternal recumbency
UHFUS IMAGING
Open DICOM 3D images dataset of the left/right inguinal lymph node in Vevo Lab software
Select Multi-sliceMethod
Select the thumbnail of the first frame
Left-click on the mouse to drop points along the border of the lymph node, then right-click to complete the contour
Use the thumbnail view to select the next image for contouring
Repeat this process until the entire volume has been outlined, then click on Finish
SEGMENTATION
Select the Volume measurement icon in the 3D mode window to activate the surface view
Rotate the surface view into any desired position
Take note of the volume measurement
3D RENDERING & VOLUME MEASUREMENT

Figure 2