Materials List for

Application of Ultrasound and Shear Wave Elastography Imaging in a Rat Model of NAFLD/NASH

Jeffrey Morin[*1], **Terri A. Swanson**[*2], **Anthony Rinaldi**[3], **Magalie Boucher**[4], **Trenton Ross**[3], **Dinesh Hirenallur-Shanthappa**[1]

[1]Comparative Medicine, Pfizer Inc. [2]Digital Medicine & Translational Imaging, Pfizer Inc. [3]Internal Medicine Research Unit, Pfizer Inc. [4]Drug Safety Research & Development, Pfizer Inc.

[*]These authors contributed equally

Corresponding Author

Dinesh Hirenallur-Shanthappa

DineshH@pfizer.com

Citation

Morin, J., Swanson, T.A., Rinaldi, A., Boucher, M., Ross, T., Hirenallur-Shanthappa, D. Application of Ultrasound and Shear Wave Elastography Imaging in a Rat Model of NAFLD/NASH. *J. Vis. Exp.* (170), e62403, doi:10.3791/62403 (2021).

Date Published

April 20, 2021

DOI

10.3791/62403

URL

jove.com/video/62403

Materials

Name	Company	Catalog Number	Comments
Aixplorer	Supersonic Imagine		Shear Wave Elastography Instrument
Aixplorer SuperLinear SLH20-6 Transducer	Supersonic Imagine		Transducer for Shear Wave Elastography
Alpha-dri bedding			rat cages
Aperio AT2 scanner	Leica Biosystems		Digital Pathology Brightfield Scanner
Compac 6 Anesthesia System	VetEquip		Anesthesia Vaporizer and Delivery System. Any anesthesia delivery system can be used, however.
Manage Imager Database	Leica Biosystems		Digital Pathology
Mayer's Hematoxilin	Dako/Agilent		H&E Staining/Histology
Nair	Church & Dwight		Hair remover
Oil Red O solution	Poly Scientific		Lipid Staining/Histology
Picrosirius Red Stain (PSR)	Rowley Biochemical	F-357-2	Collagen Stain/Histology
Puralube Opthalmic ointment	Dechra Veterinary Product		Lubrication to prevent eye dryness during anesthesia
Tissue-Tek Prisma Plus	Sakura Finetek USA		Automated slide stainer
VISIOPHARM software	Visiopharm		Digital pathology software
	Research Diets	A06071309i	NASH inducing diet
	Purina	5053	Control animal chow
Vevo imaging station	Fujifilm VisualSonics		The Vevo imaging station is used for holding the ultrasound transducer during imaging.
Wistar Han rats	Charles River Laboratories		