

Materials List for

Multi-modal Pulmonary Imaging: Using Complementary Information from CT and Hyperpolarized ^{129}Xe MRI to Evaluate Lung Structure-Function

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URL

jove.com/video/66257

Materials

Name	Company	Catalog Number	Comments
3D Slicer	Brigham and Women's Hospital (BWH)	https://www.slicer.org/	Image analysis/visualization software; open source
ANTsPy	NA	https://github.com/ANTsX/ANTsPy	Coding infrastructure; open source
ITK-SNAP	NA	http://www.itksnap.org/pmwiki/pmwiki.php	Image analysis/visualization software; open source
MAGNETOM Vida 3.0T MRI	Siemens Healthineers	NA	Can be any 1.5 T or 3.0 T scanner with broadband imaging capability
MATLAB	Mathworks	https://www.mathworks.com/products/matlab.html	General software, good for image analysis; available by subscription
reg.py	NA	NA	Registration script (Supplementary File 1)
Revolution HD CT scanner	GE Healthcare	NA	Can be any CT scanner with ≥ 64 detectors
VIDA Insights	VIDA Diagnostics Inc.	NA	CT analysis software; can be any to generate masks