

Materials List for

Human Fetal Blood Flow Quantification with Magnetic Resonance Imaging and Motion Compensation

Datta Singh Goolaub^{1,2}, Davide Marini^{3,4}, Mike Seed^{4,5}, Christopher K. Macgowan^{1,2}

¹Department of Medical Biophysics, University of Toronto ²Division of Translational Medicine, The Hospital for Sick Children ³Labatt Family Heart Centre, The Hospital for Sick Children ⁴Department of Pediatrics, University of Toronto ⁵Division of Pediatric Cardiology, The Hospital for Sick Children

Corresponding Authors

Datta Singh Goolaub
datta.goolaub@mail.utoronto.ca

Christopher K. Macgowan
christopher.macgowan@sickkids.ca

Citation

Goolaub, D.S., Marini, D., Seed, M., Macgowan, C.K. Human Fetal Blood Flow Quantification with Magnetic Resonance Imaging and Motion Compensation. *J. Vis. Exp.* (), e61953, doi:10.3791/61953 (2021).

Date Published

January 7, 2021

DOI

10.3791/61953

URL

jove.com/video/61953

Materials

Name	Company	Catalog Number	Comments
elastix	Image Sciences Institute, University Medical Center Utrecht		Image registration software
Geforce GTX 960	Nvidia	04G-P4-3967-KR	
gpuNUFFT	CAI ² R		Non-uniform fast Fourier transform
MAGNETOM Prisma	Siemens	10849583	
MATLAB	MathWorks		
Radial Phase Contrast MRI sequence			Trajectory modification of manufacturer's Cartesian Phase Contrast sequence
Segment	Medvisio		Data analysis
VENGEANCE	Corsair	LPX DDR4-2666	