

Development and Evaluation of 3D-Printed Cardiovascular Phantoms for Interventional Planning and Training

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jove.com/video/62063

Materials

Name	Company	Catalog Number	Comments
3-matic	Materialise AB		Software Version 15.0 - Commercial 3D-Modeling Software
Affiniti 50	Philips Medical Systems GmbH		Ultrasonic Imaging System
Agilista W3200	Keyence Co.		Polyjet 3D-Printer with a spatial resolution of 30µm
AR-G1L	Keyence Co.		flexible 3D-Printing material
Artis Zee	Siemens Healthcare GmbH		Angiographic X-ray Scanner
cvi42	CCI Inc.		Software Version 5.12 - 4D Flow Analysis Software
Diagnostic Catheter, Multipurpose MPA 2	Cordis, A Cardinal Health company		Catheter for pediatric training models, Sizes 4F for infants and 5F for children, young adults
Excor Ventricular Assist Device	Berlin Heart GmbH		80 -100ml stroke volume
Imeron 400 Contrast Agent	Bracco Imaging		CT - Contrast Agent
IntroGuide F	Angiokard Medizintechnik GmbH		Guidewire with J-tip; diameter: 0.035" length: 220cm
Lunderquist Guidewire	Cook Medical Inc.		(T)EVAR interventional guidewire
MAGNETOM Aera	Siemens Healthcare GmbH		MRI Scanner
Magnevist Contrast Agent	Bayer Vital GmbH		MRI - Contrast Agent
Mimics	Materialise AB		Software Version 23.0 - Commercial Segmentation Software
Modeling Studio	Keyence Co.		3D-Printer Slicing Software
PVC tubing			
Radifocus Guide Wire M	Terumo Europe NV		Straight guidewire; diameter: 0.035" length: 260cm
Really useful box 9L	Really useful products Ltd.		

Rotigarose - Standard Agar	Carl Roth GmbH	3810.4	
Solidworks	Dassault Systemes SE		Software Version 2019-2020; CAD Design Software
SOMATOM Force	Siemens Healthcare GmbH		Computed Tomography Scanner
syngo via	Siemens Healthcare GmbH		Radiological Imaging Software