

Materials List for

Augmented Reality Navigation-Guided Core Decompression for Osteonecrosis of Femoral Head

Qi Wang*^{1,3}, Qiuyuan Wang*^{2,3}, Ran Ding³, Youjie Yao⁴, Junjun Pan⁵, Weiguo Wang³

¹China-Japan Friendship School of Clinical Medicine, Peking University ²Graduate School of Beijing University of Chinese Medicine ³Department of Orthopedic Surgery, Beijing Key Lab of Immunes-Mediated Inflammatory Disease, China-Japan Friendship Hospital ⁴Beijing Normal University ⁵State Key Laboratory of Virtual Reality Technology and Systems, Beihang University

Corresponding Author	Citation		
Weiguo Wang	Wang, Q., Wang, Q., Ding, R.,	Wang, Q., Wang, Q., Ding, R., Yao, Y., Pan, J., Wang, W. Augmented Reality Navigation-	
jointwwg@163.com	Guided Core Decompression for Osteonecrosis of Femoral Head. <i>J. Vis. Exp.</i> (182), e63806, doi:10.3791/63806 (2022).		
Date Published	DOI	URL	
April 12, 2022	10.3791/63806	jove.com/video/63806	

Materials

Name	Company	Catalog Number	Comments
AR-assisted Orthopedic Surgery System	Self development	None	An operating software that implements AR for orthopedic surgery
Depth camera	Stereolabs	ZED depth camera(ZED mini)	shoot video and sent back to the workstation.
Image processing software	Adobe Systems Incorporated	Adobe Photoshop CS6	Image processing software
Infrared positioning device	Northern Digital Inc.	NDI Polaris Spectra optical tracking device	Tracking markers in the surgical area.
Puncture device	Stryker	Stryker System 7 Cordless driver and Sabo	Insert kirschner wire into the necrotic area.

^{*}These authors contributed equally