

Evaluation of AngioSim for Neurointerventional Procedure Training

1. Neuroendovascular interventional experience		
a)	How many years have you been working in interventional neuroradiology, including the time you assisted the interventionalist?	____years
b)	How often have you carried out a neuroendovascular intervention yourself?	<input type="checkbox"/> ≥50 <input type="checkbox"/> 10-49 <input type="checkbox"/> <10 <input type="checkbox"/> 0
c)	How often have you assisted with a neuroendovascular intervention?	<input type="checkbox"/> ≥50 <input type="checkbox"/> 10-49 <input type="checkbox"/> <10 <input type="checkbox"/> 0
d)	How do you rate your own abilities in performing neuroendovascular interventions?	<input type="checkbox"/> Advanced <input type="checkbox"/> Moderate <input type="checkbox"/> Inexperienced
2. Experience with training options for neuroendovascular procedures		
a)	Have you already practiced neuroendovascular interventions with a virtual reality simulation platform such as the Mentice simulator?	<input type="checkbox"/> Yes (>10 times) <input type="checkbox"/> Yes (3-10 times) <input type="checkbox"/> Yes (1-2 times) <input type="checkbox"/> No, nev er
b)	Have you already practiced neuroendovascular interventions with a silicone-based vascular simulator such as the United Biologics simulator?	<input type="checkbox"/> Yes (>10 times) <input type="checkbox"/> Yes (3-10 times) <input type="checkbox"/> Yes (1-2 times) <input type="checkbox"/> No, never
c)	Have you already practiced neuroendovascular interventions using in-vivo animal models?	<input type="checkbox"/> Yes (>10 times) <input type="checkbox"/> Yes (3-10 times) <input type="checkbox"/> Yes (1-2 times) <input type="checkbox"/> No, never

3. Evaluation of AngioSim – Realism						
For each statement, please mark a number that corresponds to your agreement, from 1 (strongly disagree) to 5 (strongly agree).						
		Strongly disagree	Disagree	Neutral	Agree	Strongly agree
Fluoroscopy						
a)	The visibility of the catheter in the silicone model during fluoroscopy mode was sufficient.	1	2	3	4	5
b)	The visibility of guidewires in the silicone model during fluoroscopy mode was sufficient.	1	2	3	4	5
Road Map						
c)	The visibility of the catheter in the silicone model during Road Map mode was sufficient .	1	2	3	4	5
d)	The visibility of the catheter in the silicone model during Road Map mode was realistic .	1	2	3	4	5
e)	The visibility of guidewires in the silicone model during Road Map mode was sufficient .	1	2	3	4	5
f)	The visibility of guidewires in the silicone model during Road Map mode was realistic .	1	2	3	4	5
g)	The Road Map simulation felt realistic.	1	2	3	4	5
DSA						
h)	The DSA simulation felt realistic.	1	2	3	4	5
General						
i)	Overall, the AngioSim simulation felt realistic.	1	2	3	4	5

4. Evaluation of AngioSim – Preferences						
For each statement, please mark a number that corresponds to your agreement, from 1 (strongly disagree) to 5 (strongly agree).						
		Strongly disagree	Disagree	Neutral	Agree	Strongly agree
a)	I would use the AngioSim again.	1	2	3	4	5
b)	Overall, the AngioSim is useful for neuroendovascular intervention training.	1	2	3	4	5
c)	I prefer AngioSim to a purely camera-based silicone-based vascular simulator.	1	2	3	4	5
d)	I prefer AngioSim to a virtual reality simulation platform such as the Mentice simulator.	1	2	3	4	5
e)	I prefer AngioSim to in-vivo animal models.	1	2	3	4	5

5. Evaluation of AngioSim - Necessity						
Please rate the necessity of the different training options for training neuroendovascular procedures on a scale from 1 to 5, where 1 is 'Not Necessary' and 5 is 'Absolutely Necessary'						
		Not Necessary	Slightly Necessary	Somewhat Necessary	Very Necessary	Absolutely Necessary
a)	Camera + United Biologics silicone model.	1	2	3	4	5
b)	AngioSim + United Biologics silicone model.	1	2	3	4	5
c)	Animal model.	1	2	3	4	5
d)	Virtual reality simulation platform such as the Mentice simulator.	1	2	3	4	5
e)	Clinical training in humans.	1	2	3	4	5