

Supplement 13 Results of the practical examination

	Simulator Exam (DOPS ^{Sim})			Human Model Exam (DOPS ^{Human})			Comparison of exam performance on the simulator vs. on human models	
	Control group (Mean±SD)	Study group (Mean±SD)	p-value	Control group (Mean±SD)	Study group (Mean±SD)	p-value	p-value control group	p-value study group
FATE Overall score <i>max. 78 points</i>	63.9 ± 8.1	64.1 ± 7.0	0.89	63.9 ± 8.6	59.4 ± 10.2	0.008	0.97	0.003
Patient guidance/ Communication (<i>max. 8 points</i>)	6.7 ± 1.9	6.8 ± 1.7	0.75	6.9 ± 1.3	6.6 ± 1.8	0.39	0.6	0.54
FATE 1 (<i>max. 8 points</i>)	6.9 ± 1.6	7.4 ± 1.2	0.04	6.3 ± 1.9	6.0 ± 2.2	0.39	0.04	< 0.001
F1 Skills (<i>max. 6 points</i>)	5.0 ± 1.6	5.4 ± 1.2	0.06	4.4 ± 1.7	4.1 ± 2.0	0.41	0.05	< 0.001
F2 Show (<i>max. 2 points</i>)	2.0 ± 0.3	2.0 ± 0.0	0.23	1.9 ± 0.4	1.9 ± 0.4	0.61	0.49	0.03
FATE 2 (<i>max. 8 points</i>)	6.6 ± 1.8	6.7 ± 1.5	0.65	6.2 ± 1.8	5.6 ± 1.9	0.07	0.17	< 0.001
F2 Skills	4.6 ± 1.7	4.8 ± 1.5	0.47	4.2 ± 1.8	3.6 ± 1.9	0.09	0.2	< 0.001
F2 Show	2.0 ± 0.3	2.0 ± 0.1	0.05	2.0 ± 0.1	2.0 ± 0.2	0.09	0.28	1
FATE 3 (<i>max. 8 points</i>)	6.1 ± 1.7	6.3 ± 1.7	0.62	7.0 ± 1.5	6.3 ± 2.0	0.02	0.003	0.94
F3 Skills	4.2 ± 1.6	4.4 ± 1.6	0.5	5.0 ± 1.4	4.3 ± 1.9	0.02	0.002	0.92
F3 Show	1.9 ± 0.2	1.9 ± 0.2	0.17	1.9 ± 0.2	1.9 ± 0.3	0.83	0.37	0.88
FATE 4 (<i>max. 8 points</i>)	6.3 ± 1.7	6.3 ± 1.3	0.89	7.0 ± 1.4	6.6 ± 1.5	0.13	0.01	0.19
F4 Skills	4.4 ± 1.5	4.4 ± 1.2	0.84	5.0 ± 1.4	4.7 ± 1.4	0.16	0.02	0.18
F4 Show	1.9 ± 0.4	1.9 ± 0.2	0.82	1.9 ± 0.2	1.9 ± 0.3	0.36	0.23	0.87
FATE 5 (<i>max. 8 points</i>)	7.6 ± 1.2	7.6 ± 0.9	0.92	7.5 ± 1.3	7.2 ± 1.5	0.2	0.78	0.07

F5 Skills	5.7 ± 1.1	5.7 ± 0.9	0.77	5.6 ± 1.2	5.3 ± 1.4	0.2	0.76	0.05
F5 Show	1.9 ± 0.2	1.9 ± 0.2	0.43	1.9 ± 0.2	1.9 ± 0.2	0.52	1	0.85
FATE 6 (<i>max. 8 points</i>)	7.6 ± 1.1	7.7 ± 0.8	0.7	7.3 ± 1.3	7.1 ± 1.6	0.43	0.14	0.01
F6 Skills	5.7 ± 1.1	5.8 ± 0.8	0.62	5.4 ± 1.3	5.2 ± 1.4	0.63	0.12	0.01
F6 Show	1.9 ± 0.2	1.9 ± 0.2	0.65	1.9 ± 0.2	1.8 ± 0.4	0.15	0.69	0.38
FATE Skills (F1-F6) (<i>max. 36 points</i>)	29.5 ± 5.1	30.5 ± 3.6	0.22	29.6 ± 4.5	27.3 ± 6.2	0.02	0.91	< 0.001
FATE Show (F1-F6) (<i>max. 12 points</i>)	11.7 ± 0.8	11.5 ± 0.8	0.36	11.6 ± 0.8	11.4 ± 0.9	0.1	0.82	0.36
Handling (<i>max. 14 points</i>)	10.0 ± 2.3	9.5 ± 2.5	0.21	9.8 ± 2.8	8.6 ± 2.5	0.009	0.65	0.05
Orientation	1.6 ± 0.5	1.4 ± 0.5	0.01	1.4 ± 0.6	1.1 ± 0.6	0.02	0.03	0.02
Positioning	1.4 ± 0.6	1.4 ± 0.6	0.69	1.3 ± 0.6	1.0 ± 0.6	0.0004	0.76	< 0.001
Transducer movement and manipulation	1.5 ± 0.5	1.4 ± 0.5	0.49	1.5 ± 0.5	1.4 ± 0.5	0.04	0.60	0.43
“Knobology” and settings (adequate depth, gain, focus and TCG)	1.2 ± 0.5	1.3 ± 0.5	0.38	1.4 ± 0.6	1.3 ± 0.5	0.31	0.14	0.71
Instruction of patient incl. breathing	1.4 ± 0.6	1.3 ± 0.8	0.5	1.4 ± 0.6	1.4 ± 0.6	0.75	1	0.7
Positioning of Patient	1.4 ± 0.7	1.2 ± 0.7	0.2	1.5 ± 0.5	1.3 ± 0.6	0.05	0.25	0.42
Speed of examination	1.6 ± 0.6	1.5 ± 0.6	0.31	1.3 ± 0.6	1.3 ± 0.7	0.53	0.01	0.06
Overall impression (<i>max. 8 points</i>)	3.0 ± 1.0	3.2 ± 1.0	0.21	3.1 ± 1.4	3.6 ± 1.5	0.07	0.73	0.16
	Simulator Exam (DOPS^{SimPatho})							
FATE Patho Overall <i>max. 48 points</i>	36.4 ± 5.0	37.4 ± 4.6	0.23	x	x	x		
Patho 1 (<i>max. 12 points</i>)	8.8 ± 2.0	8.5 ± 1.7	0.49	x	x	x		

P1 Skill (<i>max. 2 points</i>)	1.7 ± 0.6	1.5 ± 0.6	0.06	x	x	x		
P1 Recog (<i>max. 2 points</i>)	1.4 ± 0.7	1.5 ± 0.6	0.32	x	x	x		
P1 Impress. (<i>max. 8 points</i>)	3.3 ± 1.3	3.4 ± 1.2	0.53	x	x	x		
Patho 2 (<i>max. 12 points</i>)	8.3 ± 1.6	8.8 ± 1.8	0.08	x	x	x		
P2 Skill	1.4 ± 0.6	1.5 ± 0.6	0.09	x	x	x		
P2 Recog	1.4 ± 0.7	1.7 ± 0.5	0.01	x	x	x		
P2 Impress	3.4 ± 1.2	3.4 ± 1.2	0.71	x	x	x		
Patho 3 (<i>max. 12 points</i>)	9.6 ± 1.6	9.9 ± 1.6	0.41	x	x	x		
P3 Skill	1.8 ± 0.4	1.8 ± 0.4	0.32	x	x	x		
P3 Recog	1.8 ± 0.4	1.8 ± 0.5	0.64	x	x	x		
P3 Impress	2.9 ± 1.1	2.7 ± 1.1	0.32	x	x	x		
Patho 4(<i>max. 12 points</i>)	9.7 ± 1.3	10.2 ± 1.4	0.04	x	x	x		
P4 Skill	1.8 ± 0.5	1.8 ± 0.4	0.24	x	x	x		
P4 Recog	1.9 ± 0.3	1.9 ± 0.3	0.45	x	x	x		
P4 Impress	2.9 ± 1.0	2.6 ± 1.0	0.04	x	x	x		
Skills Patho 1-4 Overall	6.5 ± 1.3	6.7 ± 1.1	0.5	x	x	x		
Recog Patho 1-4 Overall	6.4 ± 1.2	6.8 ± 1.2	0.08	x	x	X		