

Table S4. Customization fidelity (right column) is established by counting the total customization parameters (sex, age, size, race, disease and/or anatomy, and BMI / fat percentage). The parameter race was left out of the classification for computational or a combination of computational and physical ECMO sims without representation of the patient. A total score out of 6 (or 5) determined the classification is low-, mid-, or high-fidelity. Low-fidelity was based on $\leq 2/6$ or $1/5$, mid-fidelity was between $2/6$ and $5/6$ or between $1/5$ and $5/5$, while high fidelity customization was achieved when $\geq 5/6$ or $5/5$.

Source	Device	Visual representation of patient (Yes or No)	Computational and/or Physical Simulation (C, P, or C+P)	Sex (Yes or No)	Age (Yes or No)	Size (body height) (Yes or No)	Race (Yes or No)	Disease and/or anatomy (Yes or No)	BMI / Fat percentage (Yes or No)	Total customization parameters	Customization fidelity (Low-Mid-High)
3-Dmed [1]	ECMO Simulation Kit	Yes	P	No	No	No	No	No	No	0/6	Low
Allan, <i>et al.</i> [2]	Integrated Skills Trainer	Yes	P	No	No	No	No	No	No	0/6	Low
Alhomsy, <i>et al.</i> [3]	Modular ECMO simulator	Yes	C+P	No	No	No	No	No	No	0/6	Low
BioMed Simulations [4]	Califia Patient Simulator	No	C	No	Yes	Yes	N/A	Yes	No	3/5	Mid
BioMed Simulations [5]	Califia Lung Simulator	No	C	No	Yes	Yes	N/A	Yes	No	3/5	Mid
Broman, <i>et al.</i> [6]	Aplysia	No	C	No	No	No	N/A	No	No	0/5	Low
Chalice [7]	Parallel Simulator	No	C	No	No	Yes	N/A	Yes	No	2/5	Low
Colasanti, <i>et al.</i> [8]	Computational ECMO Simulator	No	C	No	No	No	N/A	Yes	No	1/5	Low
Creaplast [9]	ECMO Trainer Evolution III	Yes	C+P	No	No	No	No	No	No	0/6	Low
Curtis Life Research [10]	Eigenflow 2 ADVANCED	Yes	C+P	No	No	Yes	No	No	No	1/6	Low
Endo, <i>et al.</i> [11]	Endo Circuit	Yes	P	No	No	No	No	No	No	0/6	Low
Erler Zimmer [12]	ECMO Trainer Professional MK2	Yes	C+P	No	No	No	No	No	No	0/6	Low
Health Care Engineering Systems Center [13]	ECMO Training Simulator	Yes	P	No	No	No	No	Yes	No	1/6	Low
Lansdowne, <i>et al.</i> [14]	Orpheus perfusion simulator	No	C	No	No	No	N/A	Yes	No	1/5	Low
Mahmoud, <i>et al.</i> [15]	Cannulation simulator	Yes	C+P	No	No	No	Yes	No	No	1/6	Low

Medical Simulator [16]	Hybrids Vita	No	C+P	No	No	Yes	N/A	No	No	1/5	Low
MSE [17]	Adult ECMO Simulator	No	C	No	No	No	N/A	Yes	No	1/5	Low
Palmer, <i>et al.</i> [18]	Surgical model	Yes	P	No	No	No	No	No	No	0/6	Low
Palmer, <i>et al.</i> [19]	Percutaneous model	Yes	P	No	No	No	No	No	No	0/6	Low
Puslecki, <i>et al.</i> [20]	ECMO therapy simulator	No	C+P	No	No	No	N/A	No	No	0/5	Low
PVLoops [21]	Harvi ECMO	Yes	C	No	No	No	No	Yes	Yes	2/6	Low
Telehealth Research Institute [22]	ECMOjo	Yes	C	No	No	No	No	No	No	0/6	Low
Texas Children's Hospital [23]	RediStick ECMO Cannulation Trainer	Yes	P	No	No	No	No	No	No	0/5	Low
The Simulator Company [24]	E-Sim Pro	Yes	C+P	No	No	No	No	Yes	No	1/6	Low
Thompson, <i>et al.</i> [25]	ECMO Initiation Simulator	Yes	P	No	No	No	No	No	No	0/6	Low
Zanella, <i>et al.</i> [26]	Mathematical ECMO model	Yes	C	No	Yes	Yes	No	Yes	No	3/6	Mid

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