

Supplementary Table 2. Expert Validation Results for the Preliminary ECMO Nursing Protocol

Main subject	Sub-subject	Nursing care	Expert									M ± SD	Item CVI
			1	2	3	4	5	6	7	8	9		
Circuit managements	Circuit maintenance and exchange of circuits	1. Application of anticoagulant therapy to prevent thrombus formation and manage circuit coagulation	4	4	4	4	4	4	4	4	4	4.00 ± 0.00	1.00
		2. Maintaining the function of oxygenator membrane during ECMO treatment	4	4	4	4	4	4	4	4	4	4.00 ± 0.00	1.00
		3. Prevent of Pump Hemolysis	4	4	4	4	4	4	4	4	4	4.00 ± 0.00	1.00
		4. Maintaining the catheter and lines	4	4	4	4	4	4	4	4	4	4.00 ± 0.00	1.00
		5. Monitoring for signs of circuit change	4	4	4	4	4	4	4	4	4	4.00 ± 0.00	1.00
Patient management	Hemodynamics	1. Assess for hemodynamics is maintained	4	4	4	4	4	4	4	4	4	4.00 ± 0.00	1.00
		2. Maintain normal hemodynamics	4	4	4	4	4	4	4	4	4	4.00 ± 0.00	1.00
	Ventilation	1. Assess for ventilation is maintained	4	4	4	4	4	4	4	4	4	4.00 ± 0.00	1.00
		2. Maintain normal ventilation	4	4	4	4	4	4	4	4	4	4.00 ± 0.00	1.00
	Body temperature	1. Control of normal body temperature	4	4	4	4	4	4	4	4	4	4.00 ± 0.00	1.00
	Bleeding	1. Assess for bleeding sign	4	4	4	4	4	4	4	4	4	4.00 ± 0.00	1.00
		2. Prevent of bleeding	4	4	4	4	4	4	4	4	4	4.00 ± 0.00	1.00
	Infection	1. Assess for infection sign	4	4	4	4	4	4	4	4	4	4.00 ± 0.00	1.00
		2. Prevent of infection	4	4	4	4	4	4	4	4	4	4.00 ± 0.00	1.00
	Distal perfusion	1. Assess for distal perfusion	4	4	4	4	4	4	4	4	4	4.00 ± 0.00	1.00
		2. Prevent of limb ischemia	4	4	4	4	4	4	4	4	4	4.00 ± 0.00	1.00
	Blood volume	1. Assess for blood volume	4	4	4	4	4	4	4	4	4	4.00 ± 0.00	1.00
		2. Maintain blood volume	4	4	4	4	4	4	4	4	4	4.00 ± 0.00	1.00
	Neurologic function	1. Check for neurologic function	4	4	4	4	4	4	4	4	4	4.00 ± 0.00	1.00
	Sedation	1. Assess if sedatives are needed	4	4	4	4	4	4	4	4	4	4.00 ± 0.00	1.00
		2. Apply effective sedation	4	4	4	4	4	4	4	4	4	4.00 ± 0.00	1.00
	Pressure injury	1. Check to prevent pressure ulcer	4	4	4	3	3	3	4	4	4	3.66 ± 0.22	1.00
	Kidney function	1. Check for kidney function	4	4	4	4	4	4	4	4	4	4.00 ± 0.00	1.00
	Nutrition	1. Assess for nutrition	4	4	4	4	3	4	3	4	4	3.77 ± 0.17	1.00
	Blood sampling	1. Blood sampling at ECMO	4	4	4	4	4	4	4	4	4	4.00 ± 0.00	1.00

M = Mean; SD = Standard deviation; ECMO = Extracorporeal membrane oxygenation; CVI = Content validity index.