

Supplementary materials

(Supplementary material table 1). KTAS proficiency (N=157)

Domains (7)	Tasks (48)		Proficiency (Mean $\pm$ SD)
Critical first look (2 items)	1	Adult: ABCD assessment (VS: Respiratory Modifiers, Hemodynamic Modifiers, LOC, Temperature)	3.37 $\pm$ 0.67
	2	Pediatric Assessment Triangle (overall status, respiratory, circulation)	3.15 $\pm$ 0.71
Infection control (2 items)	3	Oral questions or patients themselves	3.27 $\pm$ 0.78
	4	Screening for communicable disease	3.29 $\pm$ 0.73
1st order modifiers (4 items)	5	Vital Signs	3.39 $\pm$ 0.73
	6	Pain Severity Modifier	3.22 $\pm$ 0.65
	7	Bleeding disorder	3.34 $\pm$ 0.66
	8	Mechanism of Injury	3.16 $\pm$ 0.73
2nd order modifiers (8 items)	9	Blood sugar level	3.25 $\pm$ 0.80
	10	Emergency level of dehydration	3.01 $\pm$ 0.79
	11	Hypertension in adults	3.03 $\pm$ 0.78
	12	Chest pain (non-cardiac features)	3.03 $\pm$ 0.78
	13	Extremity weakness / Symptoms of CVA	3.22 $\pm$ 0.73
	14	Dysphagia/Disorder	3.08 $\pm$ 0.76
	15	Injury of upper or lower extremities	3.06 $\pm$ 0.75
	16	Waiting patients Re-evaluation	2.98 $\pm$ 0.83
Special circumstances (3 items)	17	Environmental Exposure (hypothermia, drowning)	3.05 $\pm$ 0.74
	18	Pregnancy issues > 20 wks	2.98 $\pm$ 0.91
	19	Mental health and psychosocial issues (depression/suicide/self-harm, anxiety/crisis, hallucinations/delusions)	3.01 $\pm$ 0.81
Adult area (17 items)	20	Substance misuse / Intoxication	3.01 $\pm$ 0.72
	21	Mental health (Insomnia, violence/murder, social problems, bizarre behavior, abuse, neglect)	2.94 $\pm$ 0.75
	22	Neurologic Altered level of consciousness	3.10 $\pm$ 0.78
	23	Ophthalmology	3.02 $\pm$ 0.76
	24	Nose (nasal congestion / hay fever)	3.01 $\pm$ 0.76
	25	Ears (Earache Foreign body ear Loss of hearing Tinnitus)	2.91 $\pm$ 0.78
	26	ENT – (Mouth, Throat, Neck, Dental-Gum problems, Facial trauma)	2.92 $\pm$ 0.77
	27	Respiratory (Shortness of breath, Respiratory foreign body)	3.07 $\pm$ 0.76
	28	Cardiovascular cardiac arrest (non-traumatic)	3.21 $\pm$ 0.73
	29	Gastrointestinal (Abdominal pain, Vomiting, Anorexia, Melena)	3.04 $\pm$ 0.75
	30	Obstetrics-Gynecology	2.84 $\pm$ 0.83
	31	Genito-urinary (Flank pain, Urinary retention, Hematuria, UTI complaints)	2.82 $\pm$ 0.85
	32	Orthopedic	2.96 $\pm$ 0.75
	33	Trauma (Major trauma – penetrating, blunt)	3.04 $\pm$ 0.75
	34	Environmental injury (Frostbite / Cold injury)	2.96 $\pm$ 0.74
	35	Skin (Rash, Sting, Redness, Breast abrasion, Stitch-out)	3.05 $\pm$ 0.77
	36	General & Minor (Fever, Ring removal, Hyper/hypoglycemia, Abnormal lab values)	3.04 $\pm$ 0.75
Pediatric area (12 items)	37	Gastrointestinal (Oral/esophageal foreign body, Neonatal dysphoria, Neonatal jaundice)	2.93 $\pm$ 0.76
	38	Mental health (Concern for patient's welfare, Pediatric	2.83 $\pm$ 0.84

		disruptive behavior)	
39	Orthopedics (Pediatric gait disorder / Painful walk)		2.80±0.82
40	Respiratory modifiers (Stenosis, wheezing, infant apnea)		3.05±0.85
41	Neurologic (Floppy baby, Hypotonia)		3.05±0.80
42	General problems (Congenital problem in children, newborn)		2.86±0.93
43	Interview method considering the age of children		2.84±0.90
44	Child's symptoms CIAMPEDS classification assessment		2.94±0.84
45	Vital Signs-Physiological Evaluation		2.98±0.82
46	Unphysiological indicator (Pain, Hemorrhagic disease, Mechanism of injury)		2.92±0.82
47	Child's 2nd order modifiers (Blood sugar level, Dehydration)		3.04±0.78
48	Child's particular C.C (Inconsolable crying in infants, Respiratory foreign body or Oral / Esophageal Foreign Body)		2.97±0.74
Total (Range)			3.05±0.78 (2.80~3.39)
Cronbach' alpha			.96

ABCD: Airway Breath Circulation Disability, **C.C:** Chief Complaint, **CIAMPEDS:** (Chief Complaint, Vaccination/Isolation, Allergy, Medication, Disease/Past history, Event, Diet/Diaper, Symptom record), **CVA:** Cardiovascular accident, **ENT:** Eyes Noses Throat, **LOC:** Level of Consciousness, **UTI:** Urinary tract infection, **VS:** Vital Signs