Appendix 1: Study Characteristics

Author, Country	Population, Sample Size	Study Design, Level of Evidence, Kirkpatrick Level	Intervention	Outcome Measures	Results
Abe et al., 2013 ^[28]	Medical students	Quasi-Exp. One group	Mental health & well-being workshop (Asia Pacific	TEIQue-SF** PTS	Significant improvement in global trait EI scores post
Japan	(First to sixth year) $n = 181$	ocebM Level 2b Kirkpatrick 2a	Regional Meeting of the 5 th International Federation of Medical Students' Association); short lecture about mental health, emphasis on grief, loss, listening, and sharing/expressing feelings.		workshop ($p = .014$) Repeated measure analysis revealed positive change in EI scores for all students ($p = .034$) and most significant positive change in Japanese female students ($p = .007$)
			Half day		80% of students reported improvement in attentive listening, 60% reported improved confidence in dealing with emotional issues
Borges et al., 2012 ^[29]	Medical students	Quasi-Exp. One group	Team Based Learning (TBL) internal medicine clerkship	WEIP-S**	Significant improvement in team EI scores post clerkship in
USA	(Third year)	pre-post	rotation: students required to work as a team to solve		3 of 4 WEIP-S domains: Awareness of own emotions (p
	n = 105	OCEBM Level 2b Kirkpatrick 2a	complex problems within framework of internal medicine subspecialties (cardiology, pulmonology, etc.). Each module contained 4 components: (1) advanced preparation (readings), (2) individual readiness assurance (multiple choice test), (3) group readiness assurance (discussion of test), (4) application exercise (team works through challenging cases with discussion). 12 sessions, 1 afternoon/wk 12 Weeks		= .018) Recognizing emotions in others (p = .031) (3) Ability to manage other's emotions (p = .013) *No change in (4) Ability to control own emotions (p = .570)
Choi et al., 2015 ^[30] South Korea	Nursing students (Second year)	Quasi-Exp. Two group pre-post OCEBM	I: Communication course; lecture and video recording role-play activities and presentations (themes included empathy, active	AEQT** GICC	Significant improvement of both communication scores ($p < .000$) and EI scores ($p < .000$) in intervention group post course No change in control group
	n = 87 (I) $n = 45$ (C) $n = 42$	Level 2b Kirkpatrick 2a	listening, self-disclosure, conflict resolution). 4 themes for video recordings (3 reality-based scenarios): (1) conflict between family, (2)		scores in either outcome measure

			conflict between friends or lovers, (3) conflict in daily		
			life. (1 virtual scenario) (4)		
			conflict between patients and		
			nurses or nursing students		
			(chosen from scenarios prepared by instructor).		
			C: Communication course;		
			lecture only		
			recture only		
			8 sessions, duration		
			unreported		
			4 weeks		
Erkayiran	Nursing	RCT	I: Emotional Intelligence	EQ-i**	Significant improvement in EI
&	students		Skills Development Training;	(modified &	scores in intervention group (p
Demirkiran,	(First year)		training developed by authors	translated to	<.000), with significant
2018 ^[31]	72	OCEDIA	and validated by lecturers,	Turkish) ISI	difference between intervention
T. 1	n = 72	OCEBM	nurses, and psychologists.	151	and control groups post training
Turkey	(I) n = 35 (C) n = 35	Level 1b	Themes included 5 dimensions in Bar-On EQ-i		(p < .000) Significant change in ISI score
	(C) n = 33	Kirkpatrick	(personal skills, interpersonal		in intervention group (p=0.04),
		2a	skills, compatibility, coping		but no significant difference
		24	with stress, general mood),		between intervention and
			communication skills, body		control groups post training (p
			language, and use of emotions		= .419)
			in social relationships.		
			Activities included role-play,		
			group work, and self-report.		
			C: No intervention		
			10 sessions, 1/wk, 60-75		
			min/session 10 weeks		
Goudarzian	Nursing	RCT	I: Psychologist administered	Bradberry and	Significant improvement in EI
et al.,	students	IXC1	self-care sessions; themes	Greaves'	scores in intervention group (p
2019 ^[32]	(First to		included definition of EI,	standard	<.001)
	sixth term)	OCEBM	self-awareness, empathy,	EIQ**	No change in control group EI
Iran		Level 1b	stress and coping, personality,		scores
	n = 60		management of excitement,		
	(I) = 30	Kirkpatrick	problem-solving,		
	(C) = 30	2a	decision-making, improving		
			interaction with others, anger		
			control, and the spiritual		
			dimension. Activities revolved around cooperative peer		
			interactions.		
			interactions.		
			C: No intervention		
			12 sessions, 2/wk, >60		
			min/session		
			6 weeks		
Kim & Lee,	Nursing	RCT	Maternal Nursing	WLEIS**	Significant improvement in EI
$2021^{[33]}$	students		Competency Reinforcement	(translated to	scores in intervention group

	(Third year)	T	Program: learning objective	Korean)	immediately (T1: $p = .015$) and
Korea	(Time year)		themes included childbirth,	MNPT	3 weeks post (T2: $p = .016$)
Roveu	n = 61	OCEBM	self-directed learning, EI	APSPT	program with significant group
	(I) n = 28	Level 1b	utilization, and clinical	SDLAM	x time interaction $(p = .016)$
	(C) n = 33	20,0110	problem solving. Activities		Significant difference between
	(0)	Kirkpatrick	included self-study,		intervention and control groups
		2a	scenario-based learning,		at T2 $(p = .007)$
			clinical skill practice, and		Significant improvement in
			team learning using pelvic		intervention group in problem
			models, low-fidelity		solving ability $(p < .001)$ and
			simulators, and standardized		maternal nursing performance
			patients.		scores $(p < .001)$
			2-day course, 580 minutes		
Orak et al.,	Nursing	Quasi-Exp.	I: Emotional intelligence	MSEIS**	Nonsignificant increase in EI
2016 ^[34]	students	Two group	education program		score in intervention group
	(First year)	pre-post	(supervised by psychologist		(p-value unknown)
Iran			with specialty in EI); themes		No significant change in EI
	n = 66	OCEBM	included definition and		scores between intervention
	(I) = 3I	Level 2b	significance of EI, anger,		and control groups post
	(C) = 35		assertiveness, stress,		education program ($p = .4$)
		Kirkpatrick	self-awareness, empathy,		
		2a	depression, and problem		
			solving. Activities included		
			lecture, role-play,		
			brainstorming, homework		
			assignments, and group		
			teaching.		
			C: Life skills course		
			8 sessions, 1/wk, 2-hr/session		
			4 months		
Shahbazi et	Nursing	RCT	Social Problem-Solving	EQ-i**	Significant improvement in
al., 2018 ^[35]	students		Educational Program (based	PSSQ	both EI and problem-solving
	(Fourth		on six-stage model developed		scores in intervention group
Iran	year)		by D'zurilla and Goldfried);		immediately $(p < .001)$ and
		OCEBM	themes included identifying,		2-mo post program ($p < .001$),
	n = 43	Level 1b	defining, and analyzing		with significant difference
	(I) n = 20	IZ:J · · · · ·	problems, developing		between intervention and
	(C) n = 23	Kirkpatrick	solutions, decision-making,		control groups immediately (p
		2a	solution implementation, and revision/evaluation. Activities		< .05) and 2-mo ($p < .05$) post
			included group discussions,		program completion
			brainstorming, JIGSAW		
			method*, and use of		
			educational aids (books,		
			posters, videos).		
			Posters, (1800s).		
			6 sessions, 2 hr/session		
			2 months		
Szeles,	Nursing	Quasi-Exp.	Student Ambassador Peer	MSCEIT-V2**	Nonsignificant improvement in
2015 ^[36]	students	Mixed	Coaching Program; Intro peer		EI scores in 67% of students (p
					φ

	(Second and	Method	coaching presentation and		>.05)
USA	third year)	One group	peer coaching demonstration.		80% of students reported
	,	pre-post	Activities included weekly		positive change in perceived EI
	n = 9	* *	peer coaching meetings with a		abilities and 90% reported
		OCEBM	partner (scheduled and		benefits to leadership
		Level 2b	performed independently by		development
			student pairs)		1
		Kirkpatrick	· · · · · · · · · · · · · · · · · · ·		
		2a/2b	15 sessions, 1/wk, unknown		
			duration		
			15-week semester		
Teskereci et	Nursing	Quasi-Exp.	I: Caring Behavior in Nursing	EIES**	Nonsignificant improvement in
al., 2020 ^[37]	students	Two group	course; themes included	TCS	EI scores in intervention group,
•	(First year)	pre-post	concept of care, use of		no significant difference
Turkey		1	intentions and intuition,		between intervention and
-	n = 73	OCEBM	Human Caring Theory, and		control groups ($p = .855$)
	(I) n = 37	Level 2b	caring behaviors (recognizing		Significant improvement in
	(C) n = 36		the individual,		compassion score in
		Kirkpatrick	person-centered care, eye		intervention group with
		2a	contact, authentic listening,		statistically significant
			touching). Activities included		difference between intervention
			expression, caring analysis,		and control groups ($p = .014$)
			sharing of experienced caring		
			history, debate, roleplay,		
			video, and movie sharing.		
			C: Health protection and		
			Promotion course; themes		
			included concepts of health,		
			history of health promotion,		
			health policies and strategies,		
			health-promoting behaviors, and nurses' role in health		
			promotion. Activities included		
			expression, discussion,		
			question and answer,		
			brainstorming, video		
			discussions, and organization		
			of a community health		
			meeting covering oral and		
			dental health education.		
			14 sessions, 1/wk, 2		
			hrs/session		
			14-week semester		
West et al.,	Military	Quasi-Exp.	Hyper-Realistic Trauma	EQ-i 2.0**	Significant improvement in EI
2020 ^[38]	medical	One group	Training (STOPS [Strategic		scores in all domains $(p < .05)$
	students	pre-post	Operations]; San Diego, CA);		with greatest improvement in
USA	(Second		movie set based scenarios to		stress management and
	year)		simulate deployment setting.		self-perception ($p < .05$)
		OCEBM	Activities included controlled		Highest post-test scores were in
	n = 96	Level 2b	visual effects; explosions,		self-actualization ($p < .001$),
		1	gunshots, actors playing		impulse control ($p = .018$), and

		Kirkpatrick	victims and hostiles, cut suit		social responsibility ($p < .000$)
		2a	simulator (2 versions); (1)		No significant change in
			allows for simulation of		subdomains of emotional
			hemorrhage, tension		expression, empathy, and
			pneumothorax, and airway		problem solving
			compromise, (2) simulates		1
			surgical procedures to thoracic		
			and abdominal organs		
			5 days, schedule/hours		
			unreported		
White et al.,	Military	Quasi-Exp.	Hyper-Realistic Surgical	EQ-i 2.0**	Significant improvement in EI
2020 ^[39]	medical	One group	Simulation Course (STOPS	HRG	main scores and hardiness
	students	pre-post	[Strategic Operations]; San		scores post course (Bonferroni
USA	(Second		Diego, CA); simulation of		significant) with the most
	year)		immersive environment of		significant increase in EI
		OCEBM	mass casualty event where		subdomain of stress
	n = 68	Level 2b	attack, assessment, triage, and		management (5.41 \pm 1.14)
			medical management are		Significant association with age
		Kirkpatrick	simulated in real time.		in EI main score (0.95 ±
		2a	Activities include use of "cut		0.39-point increase/yr) and
			suits" that enable surgical		self-expression score (1.07 ±
			teams to practice managing		0.46-point increase/yr)
			realistic simulated		
			life-threatening injuries. Event		
			scenarios and individual roles		
			reassigned every day.		
			6 days, schedule/hours		
			unreported		

Note. I (intervention group), C (control group) ** indicates primary outcome measure correlated to effect sizes (Figure 2) TEIQue-SF (Trait Emotional Intelligence Questionnaire-Short form), PTS (Personality Trait Scale), WEIP-S (Workgroup Emotional Intelligence Profile-short), AEQT (Adult Emotional Quotient Test), GICC (Global Interpersonal Communication Competence Scale), EQ-i (Emotional Quotient Inventory), PSSQ (Problem Solving Skill Questionnaire), ISI (Interpersonal Style Inventory), MSEIS (Modified Schutte Emotional Intelligence Scale), WLEIS (Wong Law Emotional Intelligence Scale), MNPT (Developed by researchers for study: Maternal Nursing Performance Tool), APSPT (Adult Problem-Solving Process Tool), SDLAM (Self-Directed Learning Ability Measurement), MSCEIT-V2 (Mayer-Salovey-Caruso Emotional Intelligence Test Version 2), EIES (Emotional Intelligence Evaluation Survey), TCS (The Compassion Scale), EQ-i 2.0 (Emotional Quotient Inventory Version 2.0), HRG (Hardiness Resilience Gauge) *JIGSAW method: Collaborative classroom technique that breaks class into groups; each group is tasked with a specific topic/piece of the assignment or activity with synthesis of all group topics to conclude activity