

Recommendation 5 Evidence Profiles

Recommendation Question: Should undergraduate education for nurses and the interprofessional team (IP) and/or continuing professional development for health workers on Indigenous health be recommended?

Recommendation 5: It is recommended that academic settings integrate compulsory Indigenous health and Indigenous cultural safety content into college and university educational curricula for all students entering health professions.

Population: Undergraduate nurses/interprofessional team members and health workers

Intervention: Professional development and/or undergraduate education regarding Indigenous health **Comparison:** No professional development and/or undergraduate education regarding Indigenous health

Outcomes: Student cultural safety, student knowledge, student attitude (not found within this literature), student change in practice (not found within this literature)

Setting: Academic institutions and health service organizations

Bibliography: 57, 136, 198, 599, 1202, 1433

			Quality a	ssessment			Study details		No. of participants				
№ of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Country	Intervention	Intervention	Control	Reported effects/outcomes	Certainty	Reference
Nursing to cultura		t knowl	edge: measured	with (Indigenou	s health team-	created bank of q	uestions o	n perceived kn	owledge (5 ques	stions) of	cultural/emotional res	sponses (3	questions)
1	Systematic review	Not serious	Not serious	Not serious	Serious ^a	None	198: Australia, New Zealand, Canada and the U.S.	198: The review examined the implementation and impact of cultural competency and Indigenous health curricula into undergraduate health student programming.	198: 10/23 studies reported on health service student knowledge. The studies were single-arm, pre/post test design. Most of these studies reported Indigenous health as a	N/A	198: Six studies reported a positive direction of effect in students' knowledge of Indigenous health following delivery of Indigenous Health education content.	⊕⊕⊕⊖ Moderate	198: Pitama et al. (2018)

			Quality a	ssessment			Stud	ly details	No. of partic	ipants		li .	
№ of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Country	Intervention	Intervention	Control	Reported effects/outcomes	Certainty	Reference
								The content included Indigenous cultural protocols and practices, health disparities and inequities, health status and communication skills and health literacy. A variety of learning methods were used in the studies. Additional studies identified:	compulsory core curriculum.		One additional primary study was identified, and reported a positive effect of an Indigenous health education intervention on student knowledge.		
							1202: Canada	1202: First-year Masters of Occupational Therapy (OT) students were introduced to the Aboriginal	1202: n=27 The majority of participants (74.1–92.6% depending on the item) showed scores	N/A	1202: The majority of the participants demonstrated a perceived increase in Indigenous health knowledge, indicating a positive change after		1202: Jamieson, Chen, Murphy, Maracle, Mofina & Hill (2016)

			Quality a	ssessment			Stud	ly details	No. of partic	cipants		l	
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								Cultural Safety Initiative (ACSI) learning modules in the course OT 841 Socio-Cultural Determinants of Occupation. Modules were offered by an Indigenous educator from an Aboriginal student centre with AHT (Anishnawbe Health Toronto) training. The format included didactic teaching, sharing of personal and community stories and traditions, Modules were offered by an Indigenous educator from an Aboriginal student centre with AHT (Anishnawbe Health Toronto) training. The	suggesting improvements in perceived knowledge of indigenous health between pretest and post test. The greatest change in perceived knowledge was for the item 'aboriginal cultures generally' where 92.6% of participants showed increases in scores.		completing the OT 841 course.		



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№ of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Country	Intervention	Intervention	Control	Reported effects/outcomes	Certainty	Reference
Measure	ment Tool	(CCMT)		survey was dev	eloped to mea	sure power differe					comes survey; Cultu , the importance of s		
4	Single-arm	Serious ^b	Serious	Not serious	Not serious	None	136: United States	136: A 1-week Cultural Immersion Service Learning (CISL)	136: n=32 Twenty-five of the 32 participants	NA	Summary: 4 studies reported a positive direction of effect and improved scores on nursing/IP health student cultural safety measures following the participation in Indigenous health and cultural safety educational interventions. 136: Following the 1-week CISL intervention, nursing student scores on the	Very Low ⊕○○○	136: Alexander- Ruff & Kinion (2019)



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							599: Australia	experience for undergraduate nursing students who traveled to a rural Indigenous community where the students lived and worked for 1 week. The nursing students were immersed in the community 12 to 14 hours per day, participating in cultural events such as discussions with Elders, beading, arrow making, archery, horseback riding, and meal sharing.	demonstrated more than a 10- point difference between their pretest and posttest adapted and validated White Racial Identity Attitude Scale (WRIAS) scores.	NA	modified WRIAS improved. Effect size of the CISL intervention: 1.902.		599: Smith,
								immersion: two prerequisite lectures: 1. culture from an	599: n=271 Medical students were from:		immersion scores are presented, but authors reported an		Wolfe, Springer, martin &

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								then compared an Australian	Australia, and also India, Pakistan, Iran, Asia, South Africa and New Zealand by birth/descent. Post immersion scores: range from 3.91 to 4.26 out of 5.		improvement in attitudes and improved cognitive links between the immersion activity and the students' comprehension of the social determinants of health.		Tongo (2015)

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							1433: Australia	as the students drawing and discussing their own culture. outcomes. 1433: The semester-long (12 weeks), mandatory First Peoples' Health course for undergraduate health professional students was offered via a mixed mode, using 5×3-hour face to face workshops and approximately 10 hours of self-directed learning using online mini lectures and resources. All members of the core teaching team were First Peoples academics.	1433: n=297 There was a significant increase in Cultural Capability Measurement Tool (CCMT) mean scores following the semester long Indigenous Health from baseline (M=92.4, SD=8.9) to post-course (M=103.25, SD=9.6).	NA	1433: Students cultural capability scores improved following the 12-week First Peoples' Health course for undergraduate health professional students reflect improved student understanding of factors influencing First Peoples' health and the students' sense of cultural capability.		1433: West, Mills, Rowland & Creedy (2019)



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№ of studies	Study design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Country	Intervention	Intervention	Control	Reported effects/outcomes	Certainty	Reference
							57: Australia	57: Final year University of Newcastle undergraduate podiatry students attending a culturally safe Aboriginal and Torres Strait Islander student clinic at Wyong Hospital. The clinic is led by an Aboriginal Podiatrist, supported by an Aboriginal Health Worker, and provides student immersion placements that include cultural capability learning. The clinic focuses on holistic and culturally safe care and understanding lived experiences and history.	57: n= 58 Domain (number of questions, max score) [Pre/post are median scores] 1 (3, 15): Pre: 13 Post: 14 Score change (% of pre-placement score): 1.00 (7.69%) 2 (5, 25): Pre: 19 Post: 22 Score change: 3.00 (15.79%) 3 (5, 25): Pre: 23 Post: 24 Score change: 1.00 (4.35%) 4 (4, 20): Pre: 11 Post: 17 Score change: 6.00 (54.55%	NA	57: A positive direction of effect is reported for all cultural safety domains. This study found that podiatry students, who participated in an immersive placement at a culturally safe podiatry clinic, had significant improvements in their understanding of, and confidence with, providing culturally appropriate care to Aboriginal and Torres Strait Islander Peoples.		57: West et al. (2021)



			Quality a	ssessment			Study details		No. of participants			
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Explanations

CERQual Evidence Profile

Recommendation Question: Should undergraduate education for nurses and the interprofessional team and/or continuing professional development for health workers on Indigenous health be recommended?

Recommendation 5: It is recommended that academic settings integrate compulsory Indigenous health and Indigenous cultural safety content into college and university educational curricula for all students entering health professions.

Aim: To explore the experiences of participating in Indigenous health education as an undergraduate health service student.

^aThe total number of participants across the relevant studies in the systematic review was < 400. We downgraded by 0.5.

bAcross the 4 studies there were serious concerns about methodological limitations in how the studies were conducted using the ROBINS-tool. We downgraded by 1.0.

Across the 4 studies there were concerns around regarding the consistency of how cultural concepts were defined and the differing tools used to measure the cultural outcomes. We downgraded by 1.0.



Bibliography: 41, 64, 111, 136, 323, 542, 566

	Finding: Students reported that immersion experiences and engaging in critical reflexivity supported their capacity to provide culturally safe care and brought about greater awareness in regards to social determinants of health and their impact on indigenous health disparities. Studies Included study CERQual Assessment Overall CERQual Explanation of													
						Overall CERQual Assessment of	Explanation of Judgement							
to the Finding	uesigns	Assessment of Methodological Limitations	Assessment of Relevance	Assessment of Coherence	Assessment of Adequacy of Data	Confidence	Judgement							
Individual studies: 41: Withall et al. (2020) 64: Thackrah, Wood & Thompson (2020) 111: Oosman et al. (2019) 136: Alexander-Ruff & Kinion (2019) 323: Askew et al. (2017) 566: Benson et al. (2015)	6 individual studies and 1 dissertation: 41: semi-structured interviews and thematic analysis 64: semi-structured interviews and thematic analysis 111: semi-structured interviews and descriptive phenomenology 136: focus groups, reflective writing assignment and	Serious concerns (Some individual studies did not consider researcher reflexivity or participant confidentiality)	Minor concerns (The study populations included medical, nursing and midwifery students)	Moderate concerns (Moderate concerns about the coherence of how cultural safety is defined across the studies)	Minor concerns (6 individual studies and 1 dissertation offered moderately rich data)	Low confidence	The finding was graded as low confidence due to serious concerns over methodological limitations of the individual studies, and moderate concerns about the coherence of the cultural safety concept-							



542 (dissertation): Alexander- Ruff (2016)	thematic analysis 323: semi-structured interviews and thematic analysis 566: written reflective notes and phenomenology 542: reflective writing and observation. Constant						
	method, grounded theory.						
Finding: Studer	-	ovement in their knowle	edge about indigenous l	health issues.			
323: Askew et al. (2017)	323: semi- structured interviews and thematic analysis	Serious concernso (Researcher reflexivity not considered)	Minor concerns (The study population included medical students)	Minor concerns (Concerns about the coherence of how cultural safety is defined)	Serious concerns ^d (Moderate concerns related data richness)	⊕○○ Very low confidence	The finding was graded as confidence due to serious concerns over methodological limitations of the individual study and review and moderate concerns over adequacy of data.