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Review of Indigenous health curriculum in nutrition and dietetics at one Australian university: an action research study

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Review of Indigenous health curriculum in nutrition and dietetics at one Australian university: an action research study

Abstract

This paper describes a review undertaken in 2012-2013 by Nutrition and Dietetics, Flinders University, to assess the Indigenous health curriculum of the Bachelor of Nutrition and Dietetics (BND) and Masters of Nutrition and Dietetics (MND).

An action research framework was used to guide and inform inquiry. This involved four Stages, each of which provided information to reach a final decision about how to progress forward. First, relevant information was collected to present to stakeholders. This included identification of acknowledged curriculum frameworks, review of other accredited Nutrition and Dietetics courses in Australia, review of Indigenous health topics at Flinders University including liaison with the Poche Centre for Indigenous Health and Well-Bend (Indigenous health teaching and research unit) and a review of BND and MND current curriculum related to Indigenous health. Second, input was sought from stakeholders. This involved a workshop with practising dietitians and nutritionists from South Australia and the Northern Territory and discussions with Flinders University Nutrition and Dietetics academic staff. Third, a new curriculum was developed. Nine areas were identified for this curriculum, including reflexivity, approach and role, history and health status, worldview, beliefs and values, systems and structures, relationship building and communication, food and food choice, appreciating and understanding diversity and nutrition issues and health status. Fourth, a final outcome was achieved, which was the decision to introduce a core, semester-long Indigenous health topic for BND students. A secondary outcome was strengthening of Indigenous health teaching across the BND and MND. The process and findings will be useful to other university courses looking to assess and expand their Indigenous health curriculum.

Introduction

In Australia, Aboriginal and Torres Strait Islander people experience chronic health conditions, including diabetes, obesity and cardiovascular disease, at disproportionate rates compared to the non-Indigenous population (Vos, Barker, Stanley, & Lopez, 2007a, 2007b). Factors contributing to this unacceptable health gap include historical, political and socioeconomic marginalisation and negative assumptions about Indigenous peoples, all of which can result in intergenerational discriminatory practices that have a profound effect on health and wellbeing (Eckermann et al., 2006) and can limit access to appropriate housing, transport, jobs and health care services (Australian Institute of Health and Welfare, 2011). It has been reported that a well-trained health workforce will help to secure and sustain health improvements for Aboriginal communities (Andersen, 2009). Diet and lifestyle modification is a key component of the prevention and management of chronic health conditions that Indigenous people experience, and dietitians and nutritionists can play an important role in communicating this information. However, there is evidence that many dietitians and nutritionists lack confidence to work in Indigenous health (Wilson, 2011) and would benefit from further training in order to do so more confidently and effectively. This is a pattern which has also been observed in other allied health professions (Bennett, Zubrzycki, & Bacon, 2011; Stedman & Thomas, 2011; Thomas, Gray, & McGinty, 2011). Therefore one challenge for tertiary courses training dietitians and nutritionists is how to best equip new graduates with the skills to effectively work with Aboriginal and Torres Strait Islander peoples (Edwards, 2005).

There is clear directive from the Australian Government that health-based university courses include teaching of Indigenous health (Commonwealth of Australia, 2000). Recommendation

29 in the “Health is Life: Report on the Inquiry into Indigenous Health” (Commonwealth of Australia, 2000, p. xxiii) proposes that:

Within two years, all undergraduate and post-graduate health science courses should include an effective cross cultural awareness component, as well as dealing in detail with the current health status of Indigenous Australians and the factors which have contributed to their ongoing social and cultural disadvantage.

This recommendation has been supported by two further Australian Government reports which outlined how Indigenous health can be addressed in the university system (Behrendt, 2012; Bradley, Noonan, Hubert, & Scales, 2008). Teaching Indigenous health enables inclusion of Indigenous perspectives in the curriculum which is important to make a useful contribution to improving the health of Indigenous peoples (Herbert, 2010). This also makes higher education more attractive and accessible to Indigenous students, because these students are presented with an education that “demonstrates a respect for Indigenous people, their knowledges and epistemologies” which enables students to achieve self-determination and use education as a tool of empowerment (Herbert, 2010, p. 30). Many dietitians and nutritionists work in government-funded settings in which Indigenous health is a priority (Australian Government Department of Social Services, 2013) and it is therefore important that they are adequately trained to work effectively with Aboriginal and Torres Strait Islander peoples. Hence there is an opportunity for tertiary institutions to review their programs and consider best ways to teach Indigenous health in Nutrition and Dietetics courses.

The Dietitians Association of Australia (DAA) requires entry-level dietitians to have basic skills to work in Indigenous health. The current DAA competencies for entry-level dietetic practice in relation to Indigenous health include (Dietitians Association of Australia, 2009):

1. Understands what is meant by cultural awareness with respect to the Aboriginal and Torres Strait Islander and Culturally and Linguistically Diverse (CALD) communities and is aware of the skills required for communicating in a culturally respectful way
2. Has a working knowledge of the nutrition issues and diet related diseases impacting on the health of Aboriginal and Torres Strait Islanders and people from CALD communities
3. Has an awareness of the current policy and implementation frameworks for Aboriginal and Torres Strait Islander and CALD communities

These are different to previous versions of the DAA competencies, for example the 1994 DAA competencies did not refer specifically Indigenous health (Dietitians Association of Australia 1994). Despite the mention of Aboriginal and Torres Strait Islander health in the current DAA competencies, there is a lack of published literature about teaching Indigenous health in Nutrition and Dietetics courses in Australia, including what is taught, how the curriculum is assessed for adequacy and alignment with these competencies. A review of nine DAA accredited courses in 2005 showed that two integrated Indigenous health issues across the curriculum while seven included discrete lectures or tutorials about Indigenous health (Edwards, 2005). New graduate dietitians and nutritionists have previously reported that the current DAA competencies do not include the necessary attributes for working with people from other cultures, particularly Aboriginal and Torres Strait Islander people (Phillips, Ash, & Tapsell, 2000). Importantly, these were the previous DAA competencies (1994), which did not include any specific reference to Aboriginal and Torres Strait Islander health (Dietitians Association of Australia 1994), and whether the same is true since the revision of the competencies in 2009 remains uncertain.

At Flinders University, students in the Bachelor of Nutrition and Dietetics (BND) and Master of Nutrition and Dietetics (MND) programs have the opportunity to undertake a community/public health, clinical and/ or food service placement in the Northern Territory, where contact with Indigenous people is likely. In 2011, multiple Placement Educators provided formal feedback to the placement topic coordinators and reported that students would benefit from further training at university to undertake placements in Indigenous communities. In order to address this, a revision of the Indigenous health elements of the BND and MND curricula was undertaken. The aim of this research was to review the BND and MND curricula and make suggestions for what could be improved. A secondary aim was to describe the process used to do this, as suggestions for ways forward may be applicable to nutrition and dietetics courses at other universities or indeed other health related programs.

Methods

In this study, we used an action research process to review the BND and MND curricula and make suggestions for change. Action research was considered a suitable methodology because it aims to achieve change, it seeks to involve stakeholders to co-create knowledge relevant to local contexts, it is reflective, practical and cyclical in nature and seeks to solve real-world problems (Denzin & Lincoln, 2011). This enabled the research team to work in partnership with the Placement Educators who had originally identified the issue, local dietitians and nutritionists who had an understanding of the local context and university academic staff who teach Indigenous health, and those who teach BND and MND students. These stakeholders were all willing to be involved in the application of the results, another feature of action research (Denzin & Lincoln, 2011). The cyclical nature of action research, with earlier cycles informing later cycles, enabled us to obtain multiple perspectives on the issue and progress to a final, agreed-upon action. Figure 1 presents the research process

within an action research framework and the Methods and Results sections are organised under the headings of Figure 1.

Stage 1: Collection of introductory information to take to stakeholders

Stage 1 of the action research process involved collecting background information which provided further context around the general issue of teaching Indigenous health to allied health and nutrition and dietetics students, with a view of ultimately discussing this information with stakeholders in the next stage of the action research process.

Identification of acknowledged curriculum frameworks

Acknowledged and endorsed curriculum frameworks for teaching Indigenous health were identified and reviewed. This included the Committee of Deans of Australian Medical Schools (CDAMS) Indigenous Health Curriculum Framework (Committee of Deans of Australian Medical Schools, 2004), “15 Approaches to Indigenous Teaching” (Asmar, 2011) and Review of Higher Education Access and Outcomes for Aboriginal and Torres Strait Islander People (Behrendt, 2012).

Benchmarking exercise – DAA accredited courses

A benchmarking exercise was undertaken to ascertain what curriculum, if any, other DAA accredited Nutrition and Dietetics courses across Australia included about Indigenous health. This involved using university and course websites to look at course and topic details and where necessary, contacting course coordinators to obtain further information about the topic content of courses.

Benchmarking exercise – other Indigenous health topics

The benchmarking exercise was also used to identify Indigenous health topics taught at Flinders University, and whether any of these would be suitable for Nutrition and Dietetics students to undertake. In undertaking this process, the authors met with staff at the Poche Centre for Indigenous Health and Well-Being¹ and the Centre for Remote Health² at Flinders University, to discuss possible options as they teach Indigenous health topics in Adelaide and Alice Springs respectively.

Review of BND and MND current curriculum

Curriculum documentation for all BND and MND topics was reviewed. This included topic outlines and student course manuals. This information was read in detail and all references to Indigenous health were recorded.

Stage 2: Stakeholder engagement

Workshop with dietitians and nutritionists

In September 2012, 12 dietitians and nutritionists from South Australia and the Northern Territory were invited to take part in a workshop in Alice Springs with staff from Flinders University. The meeting in Alice Springs was co-facilitated by Centre for Remote Health staff. These dietitians and nutritionists were chosen because all or most of their work role encompassed Indigenous health and they were recognised leaders in this area. These dietitians and nutritionists were considered to be important stakeholders for the action research process as they were able to comment on practical and real-world issues about working in Indigenous health. Obtaining perspectives from individuals working across a variety of geographical locations was considered important and hence the dietitians and nutritionists invited worked across urban, regional, rural and remote settings in both SA and

¹ <http://www.flinders.edu.au/medicine/sites/poche.adelaide/poche-centre.cfm>

² <http://www.crh.org.au/>

NT. The purpose of this meeting was to talk to dietitians and nutritionists about what they thought was important to be covered in a curriculum on Indigenous health for BND and MND students. As these dietitians and nutritionists supervised students and worked in Aboriginal health themselves, they were well equipped to comment on what needed to be incorporated into curricula and be involved in the action research process. At this stage, it was unclear whether a new topic would be developed, an existing topic would be introduced as a core topic or Indigenous health would be incorporated across the existing BND and MND curricula. A workshop was chosen to allow face to face discussion between Flinders University staff and dietitians/ nutritionists as well as a number of informal presentations.

The full-day workshop included a Welcome to Country by a local Aboriginal Elder, presentations from staff at the Centre for Remote Health and Poche Centre for Indigenous Health and Well-Being about Indigenous health topics, a presentation from the researcher about current coverage of Indigenous health issues in the BND and MND curricula and time for discussion amongst the group about what else was needed. Lines of inquiry for discussion at the workshop included:

1. Thinking about curriculum in Indigenous health for nutrition and dietetics – what should be included?
2. Thinking about teaching and assessment methods

Detailed notes were taken by two researchers to capture the discussion and this information was used to inform proposed changes to curriculum

Interviews with Nutrition and Dietetics academic staff

Nutrition and Dietetics academic staff from Flinders University were another important group of stakeholders in the action research process because they teach BND and MND students

and therefore have a good idea of current student issues and would be affected by any changes to the curriculum. All academic staff in Nutrition and Dietetics at the time of the research were invited by email to participate in an informal, semi-structured interview (n=9). Qualitative interviews were chosen to enable in-depth, open-ended exploration of the topic. Interview questions were based upon three areas of inquiry:

1. Clarification of existing curriculum in the topics each staff member taught, related to Indigenous health, identified by the review of curriculum documentation in Stage 1
2. Views on potential opportunities to increase the curriculum related to Indigenous health in the topics that they taught
3. Their thoughts, views and concerns (if any) about teaching Indigenous health

Extensive notes were taken by the researcher during the interview under the headings of these three areas of inquiry and this information was used to inform proposed changes to curriculum and resources required by academic staff in order to make these changes.

Stage 3: Curriculum development

Development of the 'Dietitian Curriculum'

The outcomes of Stages 1-2 were used in Stage 3; development of a proposed curriculum which represented and summarised the key points considered crucial to develop students' understanding of Indigenous health and food and nutrition (referred to in this paper as the 'Dietitian Curriculum'). This curriculum was primarily informed by views of the dietitians and nutritionist stakeholders attending the workshop in Alice Springs in Stage 2.

Comparison of the Dietitian Curriculum with existing Indigenous health topics

The Dietitian Curriculum was compared to semester-long Indigenous health topics already taught at Flinders University, all current Nutrition and Dietetics topics and the information

provided from academic staff through interviews. In particular, the Dietitian Curriculum was mapped against the semester-long topic 'Indigenous Health for Health Sciences' taught by the Poche Centre for Indigenous Health and Well-Being, to assess whether the Dietitian Curriculum adequately covered the core concepts in this topic. This topic was considered a gold standard for the types of concepts to teach nutrition and dietetics students as it was designed to teach allied health students about Indigenous health. This comparison was done using a framework which enabled comparison of the key areas of the Dietitian Curriculum with the overarching topic objectives and week by week objectives of the Indigenous Health Topic.

Stage 4: Final outcome

The information gleaned from Stages 1-3 was used to make the final decision about a course of action for teaching Indigenous health to BND and MND students at Flinders University.

Results

Stage 1: Collection of introductory information to take to stakeholders

Identification of acknowledged curriculum frameworks

The acknowledged and endorsed curriculum frameworks provided information to critically evaluate the data collected from workshops and academic interviews to map a way forward. Specifically, these documents provided information on: guiding principles to teaching Indigenous health; suggested subject areas; pedagogical principles most likely to contribute to successful curriculum design and delivery; a process for curriculum development; recommendations for teaching Indigenous and non-Indigenous students at university level; and approaches to teaching cultural safety.

Benchmarking exercise - DAA accredited courses

At the time of the study there were 20 courses accredited by the Australian Dietetics Council at 14 universities (nine Bachelor courses, 10 Masters and one Postgraduate Diploma). From a review of each course website, it was identified that 19/20 courses had a public health nutrition topic where some Indigenous issues were covered. Detail on curriculum content, however, could not be obtained from all of the websites. Fourteen emails were sent to course coordinators of Nutrition and Dietetics programs to obtain more information. Eight replies were received. The majority of replies indicated that one-off lectures or tutorials (between one and three hours) were held to teach students about Indigenous health. This varied from one to three sessions through the Degree. These were usually part of the public health/community nutrition topic but in some universities also occurred in dietetic counselling, nutritional status and communication topics. One university indicated they were working closely with their Indigenous health school to map the curriculum. Two courses at Masters level indicated that students generally undertook studies about Indigenous health at undergraduate level.

Benchmarking exercise – other Indigenous health topics

Three Indigenous health topics were identified that are taught to undergraduate students at Flinders University by the Poche Centre for Indigenous Health and Well-being. These topics are ‘Indigenous Health for Health Sciences’, ‘Indigenous Health for Nurses’ and ‘Indigenous Health for Midwives’. Another topic, ‘Social determinants of Indigenous Health’, was taught at postgraduate level. All of these topics are one semester in length and are based on a similar curriculum, with a focus on cultural safety and a critical reflective approach.

Review of BND/ MND current curriculum

All (15) topics across four years of Nutrition and Dietetics study were reviewed. Seven currently include some curriculum related to Indigenous health. Table 1 shows these fifteen topics and what they currently cover about Indigenous health.

<Insert Table 1 about here>

Stage 2: Stakeholder engagement

Workshop with dietitians and nutritionists

Nine of the invited dietitians and nutritionists attended the workshop. Two were male; three were from South Australia and six from the Northern Territory. Two worked in an urban setting, four in remote settings and three in regional settings. Discussion with dietitians and nutritionists at the workshop revealed nine areas considered to be important to cover when teaching Indigenous health to Nutrition and Dietetics students. Other discussion during the workshop included potential case studies to use in teaching, potential assessment tasks, curriculum delivery (including offers from dietitians and nutritionists to be involved in teaching) and available teaching resources.

Interviews with Nutrition and Dietetics Academic Staff

Informal interviews were held with nine Academic Staff teaching Nutrition and Dietetics at Flinders University. All staff were female and held positions varying from Lecturer to Professor. They had worked at Flinders University for between five and fifteen years. One staff member commented through email due to time constraints.

Academic staff were supportive of teaching Indigenous health to Nutrition and Dietetics students. However, they identified two concerns, Firstly that discussion of Indigenous issues in isolation in individual topics, without a wider framework connecting these issues, or a foundation of context for students to consider them within, could appear tokenistic, and secondly, that they lacked experience in teaching students about Indigenous health issues and were concerned about the effect of this. For example, one educator highlighted that while she was aware that Indigenous issues such as the role of history and social circumstances were important, she was not confident enough to transfer information to students, in a way that would not perpetuate stereotypes or negative images of Indigenous people.

Stage 3: Curriculum development

Development of the Dietitian Curriculum

The nine areas identified by the dietitians and nutritionists at the workshop, considered to be important when teaching Indigenous health, were used to develop the Dietitian Curriculum (Table 2). These nine areas were considered to be important for graduating dietitians and nutritionists to have demonstrated in order to practice effectively in Indigenous health. Specific examples of learning objectives that students would be required to meet in order to demonstrate competence in these areas are provided in the final column of Table 3.

<Insert Table 2 about here>

Comparison of the Dietitian Curriculum with existing Indigenous health topics

The Dietitian Curriculum was compared to the topic ‘Indigenous Health for Health Sciences’, taught to undergraduate students at Flinders University by the Poche Centre for Indigenous Health and Well-being, using a comparison framework. This comparison framework included

the nine areas of the Dietitian Curriculum and corresponding overarching and week-by-week learning objectives for the Indigenous health topic. Key issues covered in this topic include cultural safety, policies past and present, historical and contemporary impacts, intercultural communication, Indigenous health in a global context and models of health. Due to the concerns identified by Academic Staff that discussion of Indigenous issues in isolation in individual topics, without a wider framework connecting issues could appear tokenistic, it was particularly important to review this topic and consider whether it was suitable for Nutrition and Dietetics students. Discussions with staff from the Poche Centre who teach these topics, and review of curriculum documentation identified that the pedagogy on which the topic is based is consistent with pedagogic principles for teaching Indigenous health identified in the literature review (Asmar, 2011; Committee of Deans of Australian Medical Schools, 2004). For example teaching in pairs, encouraging students to question assumptions and established ‘facts’, utilising personal experience (Asmar, 2011), using a strengths-based model and involving Indigenous people in curriculum development (Committee of Deans of Australian Medical Schools, 2004). The second two columns of Table 2 demonstrate how the comparison between the Dietitian Curriculum and the Indigenous Health Topic was undertaken. When the Indigenous Health topic was mapped against the Dietitian Curriculum, the Dietitian Curriculum was found to broadly cover all nine areas except ‘food and food choice’ and ‘nutrition and health status’.

It was proposed that in order to cover ‘food and food choice’ and ‘nutrition and health status’, additional curriculum about Indigenous health that specifically addressed these areas would be incorporated into existing nutrition and dietetics topics. Suggestions for new curriculum were made for all fourteen topics including proposed activity, learning objectives, area addressed, potential readings and resources, how to implement the proposed activity and

proposed assessment tasks. Additional suggestions were also made about incorporating other areas of the Dietitian Curriculum into existing topics. Examples are provided in Table 3, topic by topic, and include example learning objectives. Please note that Table 2 does not cover all topics studied by students when completing the BND and MND, nor does it include all proposed additional curricula and learning objectives.

<Insert Table 3 about here>

Stage 4: Final outcome

The information collected in the Benchmarking exercise of DAA accredited courses, the literature review, interviews with Academic Staff, the benchmarking exercise of other topics at Flinders University, the review of the Flinders University Nutrition and Dietetics curriculum and the meeting with dietitians and nutritionists (including the Dietitian Curriculum) was used to make a decision about how Indigenous health was taught to Nutrition and Dietetics students at Flinders University. Due to the good coverage of the Dietitian Curriculum, the strength of the pedagogy of the Indigenous health topic and the concerns of Academic Staff about the need for a foundation for students, it was decided that all students studying the BND would undertake the semester-long Indigenous health topic ‘Indigenous Health for Health Sciences’ in the first year of study. It was also decided that this would be complemented by teaching of Indigenous health and nutrition across the Nutrition and Dietetics course which would address issues of food, food choice and nutritional status in Indigenous communities. In particular, the focus on coming to see Indigenous health through a self-reflective process was a highly regarded characteristic of the topic ‘Indigenous Health for Health Sciences’ and consequently, the topic was instated as a core topic for the BND program. Further discussion is being held about how to incorporate this learning for MND

students who have not studied previous topics about Indigenous health, for example a self-study package.

Discussion

This paper uses an action research framework to review the BND and MND curricula at Flinders University for teaching in Indigenous health, and suggest strategies for improvement. As outlined in Figure 1, this involved a four stage action research process and included collection of a variety of information, stakeholder engagement, curriculum development and decision about a final outcome. The process could be used by other universities and health disciplines looking to review and/ or improve the Indigenous health content of their curriculum.

The approach proposed by Nutrition and Dietetics in this paper reflects the importance of students obtaining a solid foundation in Indigenous health. The core topic ‘Indigenous Health for Health Sciences’ that BND students will undertake will act as a foundation or underpinning for the coverage of issues specifically related to Indigenous nutrition in later years of the BND and MND. This foundation is vital if students are going to appreciate and be able to see the wider context in which nutrition practice, and health care with Indigenous peoples, takes place. This is described:

“What is missing in health sciences education is a broad and foundational understanding of the contexts in which Indigenous people and health professionals meet and interact (with, in most cases, limited previously shared experience), and the consequent impacts of these contexts on health and health care outcomes” (Ewen, Paul, & GL, 2012)

Furthermore, Herbert (16) argues that if universities are going to provide leadership in the creation of a more equitable society, then enhancing cross-cultural understanding across all

discipline areas of a university, by having a mandatory Indigenous studies program with a minimum of one subject per year, is required for all graduates of Australian universities. This topic will contribute to the cultural safety of dietetic graduates from Flinders University. Culturally safe graduates are able to engage in self-reflection and to reflect on themselves and their own practices (Ryder, Yarnold, & Prideaux, 2011). Cultural safety acknowledges that improving equitable access to health care (for ethnically diverse groups, not just Indigenous Australians) is 'not just a matter of what members of the dominant culture do with 'others' but what they should do with 'themselves' (Ryder et al., 2011, p. 781). Therefore students will be facilitated to reflect on their own attitudes and biases, and whether these promote or compromise the health of Indigenous people (Durey et al., 2012).

The Benchmarking Exercise of dietetic courses at other universities showed that the majority of courses used one-off lectures or tutorials (between one and three hours) to teach students about Indigenous health. Therefore it seems that for the majority of Nutrition and Dietetics courses at Australian universities, there is a general lack of curriculum space dedicated to Indigenous health, despite this being an identified public health priority. Considering this, we acknowledge that it might not be possible for all Nutrition and Dietetics courses to include a semester-long Indigenous health topic as a core component of study, as is the approach that Flinders University has chosen to take. In situations where this is the case, we would encourage courses and programs to think about alternative ways in which similar learning objectives might be met by students by the end of the program, and how they could increase and build on what is currently being done. From this review and at the time of this study, it seems including a core semester long Indigenous health topic, taught through an Indigenous health unit, is unique to Flinders University amongst Nutrition and Dietetics courses within Australia.

The interviews with academic staff highlighted that some staff did not feel equipped to teach Indigenous health. It has been documented that teachers influence their students; in particular participants at all levels of the educational system contribute to knowledge production in a variety of ways through discussions, problem solving, and engagement in everyday activities (Akena, 2012). Knowledge is shaped not only as it is continuously interpreted, processed, and reinterpreted in the interactions among instructors and learners in educational settings, but also through the experiences and understandings brought in from outside schooling (Akena, 2012). Furthermore, discomfort and anxiety can arise amongst both students and staff when culture, identity and Indigenous health issues are discussed (McDermott, 2012). Therefore it is vital that professional development occurs in order to support academic staff in the role of delivering Indigenous curriculum, in order to support both academic staff and student learning and development about Indigenous health.

A major strength of this process was the involvement of stakeholders, for example dietitians and nutritionists working in Indigenous health. This reflects the action research process as while part of the research, the dietitians and nutritionists also became stakeholders and contributed to the final outcome (Stages 3 and 4). The Dietitian Curriculum developed has strength because it reflects practitioner experience and is therefore practice-based. Practitioner input into development of health curricula has been reported elsewhere. For example when developing competencies for a Master of Public Health degree, the public health community was consulted through progress reports and invitations to respond with comments (Calhoun, Ramiah, Weist, & Shortell, 2008). Similarly, a curriculum framework for clinical prevention and population health in nursing was developed by a Task Force which included representatives from clinical areas including nursing and nurse practitioners (Allan,

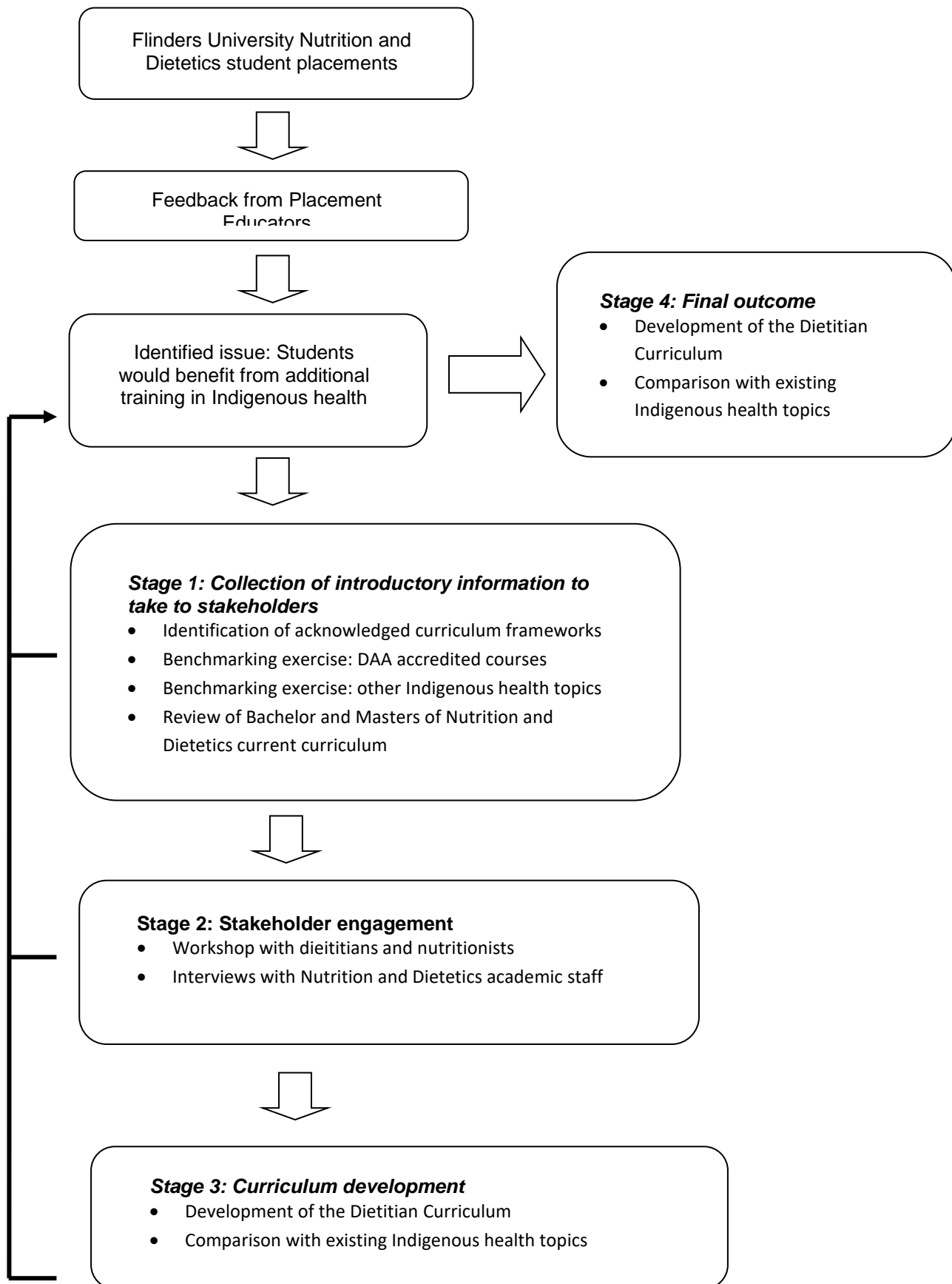
Stanley, Crabtree, Werner, & Swenson, 2005). However, it must be noted that a small number of dietitians and nutritionists from two states and territories were involved in developing the Dietitian Curriculum. While this met the needs of our study, and the sample was representative for our purpose, it may limit the relevance of the curriculum to different geographical areas. However, comparison of the Dietitian Curriculum to the topic 'Indigenous Health for Health Sciences', which is broadly designed for allied health students, showed there to be a good match between the two, suggesting that this may not be the case and the findings may well be transferable to other settings, locations and dietetic programs.

Other strengths include scrutiny of Nutrition and Dietetics topic documentation and involvement of academic staff from Nutrition and Dietetics about their ideas and concerns and discussions with educators from the Poche Centre for Indigenous Health and Wellbeing, who were able to provide insight into teaching Indigenous health to students and practitioners. However, a limitation of this process was the lack of extensive involvement of Indigenous people in the review and development of the curriculum. Involving Aboriginal and Torres Strait Islander people in decision making around Indigenous health curriculum design, delivery and evaluation is paramount. The professional, historical, social, cultural and community experiences that these people bring will enhance students' learning experiences (Committee of Deans of Australian Medical Schools, 2004). Therefore it is important that further work is done to include the perspectives of Indigenous people in curriculum design and delivery when teaching Indigenous health to BND and MND students at Flinders University. One approach that could be taken to develop curriculum about food and food choice and nutrition and health status to be incorporated into Nutrition and Dietetics topics further, is using a learning circle of Nutrition and Dietetics academic staff and Indigenous health specialists to review and develop teaching materials (Nash, Meiklejohn, & Sacre,

2006). Indigenous health specialists could include Indigenous health departments within Flinders University and key Aboriginal health organisations within South Australia. Furthermore, while pedagogy for Indigenous teaching was used to make recommendations on improving the Nutrition and Dietetics curriculum, further work could be done to map exactly how curriculum across Nutrition and Dietetics topics incorporate and addresses recommended pedagogy (Asmar, 2011; Committee of Deans of Australian Medical Schools, 2004). More in-depth, evidence-based studies are needed to understand the impact of Indigenous pedagogy on student learning (Biermann & Townsend-Cross, 2008). Therefore it is important that this process is evaluated, before and after the changes to the curriculum are implemented. For students, this could include discussion about what students think about their own needs and preferred learning strategies in relation to Indigenous perspectives (Nash et al., 2006). These suggestions could be incorporated into the action research process (Figure 1) as extra steps to follow by other universities seeking to undertake a similar process. In addition, the limitations of the benchmarking exercise across DAA accredited courses, including accessing all programs and the limited information available from a few only, must be acknowledged.

In conclusion, Flinders University appears to be leading the way in recognising that learning about Indigenous health is relevant for all dietitians, regardless of where they work. By focusing on the training of culturally safe dietitians who can act as role models within the dietetic profession and as advocates for Indigenous health, all universities can actively contribute to improving health outcomes for Australia's Indigenous peoples.

Figure 1: Action research process used to review the Nutrition and Dietetics curriculum



Tables

Table 1: Current curricula related to Indigenous health in Bachelor (BND) and Masters (MND) of Nutrition and Dietetics topics

Topic	Year of degree (BND/MND)	Current curriculum related to Indigenous health
Food Systems	1 / N/A	Reference to hunter-gatherer lifestyle of traditional Indigenous people Food supply/ availability of different groups Food supply in remote stores
Nutrition, Physical Activity and Health	1 / N/A	Nil
Nutrition across the lifecycle	2 / N/A	Some discussion around nutrition issues of Indigenous communities, for example occurrence of failure to thrive when infants are weaned off of breast milk. Highlight that we see certain growth patterns in Australia that would be typically associated with children in African countries One of the growth chart scenarios (“John”) is based in a remote Indigenous community
Food Products and Preparation	2 / N/A	Nil.
Social and Ecological Perspectives on Food Choice	2 / N/A	Social determinants of food choice Deconstruction of the idea of choice Effect of gender, ethnicity, Aboriginality on food choice Currently includes a workshop about Indigenous history – if history were to be covered in HLTH 2102, then this workshop could be embedded throughout instead and be more about reflexivity and the students in relation to racism etc

Fundamentals of Nutrition Epidemiology	3 / 1	Nil
Nutrients: role and function	3 / 1	Nil
Nutrition Care Process and Clinical Nutrition and dietetics	3/ 1	Nil (although there is a question is the nutrition care process about factors affecting client change)
Public Health and Community Nutrition	3 / 1	Examples of working with Indigenous communities in public health/ community nutrition
Professional and organisational management	3 / 1	Reference to the SA Aboriginal Health Care Plan
Management and Food Service	4 / 2	Nil
Research Methods in Human Nutrition/ Critical Thinking in Nutrition	4 / 2	Nil
Independent Studies in Nutrition & Dietetics	4 / 2	Depends on student project
Communication and Nutrition Counselling	4 / 2	Workshop on communication with Indigenous people

Table 2: Nine areas identified by dietitians and nutritionists to be important when teaching Indigenous health to nutrition and dietetic students (The Dietitian Curriculum), mapped against example learning objectives from the Poche Centre for Indigenous Health and Well-Being’s topic, ‘Indigenous Health for Health Sciences’

Area	Identified as important by practitioners	Overarching topic learning objectives (Indigenous Health Topic)	Week-by-week learning objectives (Indigenous Health Topic)
Reflexivity	<ul style="list-style-type: none"> • Reflect on own culture, values, practices, • Consider power and equity issues, dominant discourses, potential for harm, and implications for ethical practice • Assess current practice and consider strategies for improvement, if relevant • Self-care • 	<p>Appreciate and reflect on topic material in relation to one’s own cultural background and identify impacts</p> <p>Develop reflective communication skills for Health Sciences practice that are commensurate with the principles of cultural safety Health Sciences practice.</p>	<p>Week 1: Begin to examine the relevance of Indigenous health issues to your own practice</p>
Approach and role	<ul style="list-style-type: none"> • 2 way learning • Side by side, partnership approach • Capacity building • Support role, rather than directive • Holistic approach – consider Social determinants of health and other things going on in people’s lives • Multi-disciplinary approach • Advocacy – how can a dietitian be an advocate? • Sustainability – how can a dietitian’s work be sustainable? • Primary health care • Working with Indigenous health workers 	<p>Understand the role of practitioners working with Indigenous Australians in a range of health care settings and communities, through examples of best practice in primary health care</p>	<p>Week 7: Describe the underpinning philosophy behind primary health care</p> <p>Week 7: Critique the relevance of primary health care to Indigenous health in Australia</p> <p>Week 8: Examine the role of capacity and resilience in achieving improved health outcomes for Indigenous Australians</p> <p>Week 8: Analyse the role of health professionals in</p>

			supporting Indigenous capacity and wellbeing
History and health status	<ul style="list-style-type: none"> • Colonisation – history and continued practices today – impact on health and nutrition • Policies past and present - impact on health and nutrition 	<p>Recognise and explain how the colonization of Australia impacted and continues to impact on Indigenous health</p> <p>Critically analyse and reflect on how racism and discrimination impacts on Indigenous health outcomes</p> <p>Articulate the importance of family, country and sovereignty to the development of Indigenous identity and health and wellbeing</p>	<p>Week 3: Acquire an understanding of the policies and government and institutional responses impacting upon the lives and wellbeing of Indigenous Australians</p> <p>Week 3: Identify critical events impacting upon the current health of Indigenous Australians</p> <p>Week 12: Contrast the colonizing histories of Canada and New Zealand with Australia</p> <p>Week 12: Explore the transferability of approaches to improving health from other countries with a similar history of colonization</p> <p>Week 12: Discuss what is meant by ‘engage in a process of “de-colonisation:’ as a health professional</p>
Worldview, beliefs and values	<ul style="list-style-type: none"> • Not imposing personal belief systems, • Awareness of different worldviews and values • Awareness of how individual worldview affects the healthcare of clients (cultural safety) • Worldview – individualism vs. collectivism • Awareness of different understandings of health 	Use appropriate language and accurately describe the diversity of Indigenous Australian population and culture	<p>Week 6: Articulate a personal definition of health</p> <p>Week 6: Compare and contrast various models of health</p> <p>Week 6: Critically analyse</p>

	<ul style="list-style-type: none"> ● Appreciation of worldviews at different levels: <ul style="list-style-type: none"> ○ Individual ○ Profession – e.g. health professionals often taught that time is money ○ Organisation – e.g. we need to invest time first in Indigenous communities before we get outcomes – not always supported by work organisations ○ System 	Become familiar with Indigenous holistic and traditional health practiced and appreciate their incorporation into a western framework of Health Sciences practice	the implications of competing/ complementary models of health for health sciences practice Week 9: Reflect on your own culture and its potential impact on others Week 9: Analyse and discuss concepts of racism, discrimination and ‘whiteness’ and their impact on health care
Systems and structures	<ul style="list-style-type: none"> ● Health infrastructure – rural, remote, urban communities ● Structure and agency ● Institutional racism ● How professions shape practice discourses ● Community capacity 	Describe differences in public health infrastructure between metropolitan, rural and remote areas	Week 9: Identify examples of systemic bias, institutional and individual racism and discrimination
Relationship building and communication	<ul style="list-style-type: none"> ● Building relationships ● Knowing who to speak to – community protocols and in the clinical setting ● Asking questions is important, but also find out yourself when you can ● How to engage with Indigenous people ● Working with Indigenous health workers ● Strategies for good practice/ guiding principles – e.g. National Health and Medical Research Council (NHMRC) Values and Ethics for doing research with Indigenous people, Iga Warta principles (provide examples of programs in the context of 	<p>Develop reflective communication skills for Health Sciences practice that are commensurate with the principles of cultural safety</p> <p>Understand the role of practitioners working with Indigenous Australians in a range of health care settings and communities, through examples of best practice in primary health care</p>	Week 5: Identify factors that facilitate or hinder communication between health professionals and clients of Indigenous language-speaking backgrounds

	<ul style="list-style-type: none"> values) • Understanding about different ways that people learn • Consider alternative methods of communication e.g., art, narratives, analogies, visual methods 		
Food and food choice	<ul style="list-style-type: none"> • Worldview in the context of food – i.e. different ways of experiencing, understanding and thinking about food • Meaning of food in Indigenous culture – historical and modern perspective; kinship relations and food distribution • Indigenous view of food and food in Indigenous culture, past and present • Understanding diversity – diverse Indigenous culture in relation to food • Practical skills in working with food in Indigenous communities • What influences food choice – and changes over time (includes Social Determinants of Health) • Community engagement through food 	<ul style="list-style-type: none"> • N/A 	<ul style="list-style-type: none"> • N/A
Appreciating and understanding diversity	<ul style="list-style-type: none"> • Appreciation of diversity amongst Aboriginal and Torres Strait Islander peoples, and avoid stereotyping • Awareness of the potential for gender differences • Awareness of potentially different issues in some remote, rural and urban communities 	<p>Use appropriate language and accurately describe the diversity of Indigenous Australian population and culture</p> <ul style="list-style-type: none"> • 	<ul style="list-style-type: none"> • N/A
Nutrition issues and health status	<ul style="list-style-type: none"> • Nutrition in the early years • Common nutrition issues including: malnutrition, failure to thrive, overweight, diabetes, Barker hypothesis, developmental origins of chronic disease, renal disease 	<p>Understand the major health issues relevant to Indigenous health status</p> <p>Identify and develop an</p>	<p>Week 10: Identify some of the major health issues affecting Indigenous people today</p>

	<ul style="list-style-type: none"> • Considerations when managing clinical conditions e.g. failure to thrive • Consider all conditions in context of the social determinants of health • Racism and impacts on health • Community capacity • Role of the store 	<p>understanding of the social determinants of Indigenous health</p>	
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Table 3: Suggestions for new curricula in Bachelor (BND) and Masters (MND) of Nutrition and Dietetics topics, including learning objectives

Topic	Year of degree (BND/MND)	Example additional curriculum	Example learning objectives
Food Systems	1 / N/A	Suggested discussing loss of bush foods/ traditional Indigenous diet in the context of colonisation and destruction of land. Role of bush foods in the contemporary diet of Indigenous peoples.	Appreciate that the change in Indigenous diet from pre to post colonisation was influenced by historical factors
		Short snippet from an Indigenous person about the food supply – could get different perspectives e.g. traditional, rural, remote, how things have changed in their lifetime and why	Observe the impacts of changes to the (traditional) food supply on the lives of (real) Indigenous people
Nutrition, Physical Activity and Health	1 / N/A	Suggested discussing traditional diet, Indigenous Dietary Guidelines and Australian Guide to Healthy Eating and glycaemic index	Identify characteristics of the traditional Indigenous diet before colonisation Identify current resources about a healthy diet for Aboriginal and Torres Strait Islander communities
Nutrition across the lifecycle	2 / N/A	Place and Indigenous/ social and cultural lens over issues for Indigenous children	Describe the health and nutritional status of Indigenous children compared to non-Indigenous children in Australia Identify factors contributing to this difference, including historical reasons
NUTD2102 Food Products and Preparation	2 / N/A	Identified as very difficult to include examples here because the focus is on typical modern cuisines in Australia.	N/A
NUTD 2105 Social	2 / N/A	Discussion about worldviews and knowledge	Consider your own worldview

and Ecological Perspectives on Food Choice		construction	Understand that there is more than one world view and give examples of these Describe how you would incorporate different worldviews into your practice as a dietitian
NUTD3101 Fundamentals of Nutrition Epidemiology	3 / 1	Reference to the Longitudinal Study of Aboriginal children	Identify sources of epidemiological data about Indigenous peoples
NUTD 3102/9111 Nutrients: role and function	3 / 1	Health status and changes to traditional Indigenous diet	Identify characteristics of the traditional Indigenous diet before colonisation Critically consider the relationship between changes in diet and changes in nutrition and health status of Indigenous people
NUTD3103/ 9160 Nutrition Care Process and NUTD3106/9163 Clinical Nutrition and dietetics	3/ 1	Practitioner stories and stories from Indigenous people about their experience with chronic disease	Appreciate the perspective a variety of Indigenous people managing conditions Appreciate the perspective of practitioners working with Indigenous communities to manage conditions
NUTD3107/ 9226 Public Health and Community Nutrition	3 / 1	Examples of successful programs in Indigenous communities and examples of evaluation	Give examples of strategies used by successful nutrition and physical activity programs in Indigenous communities Consider limitations of mainstream approaches to Indigenous health
NUTD3108/9164	3 / 1	Role of the organisation and individual on	Describe factors that can enable or constrain

Professional and organisational management		\practice with Indigenous	dietitians' practice in Indigenous health Reflect on how the organisation in which you work could help or hinder working in Indigenous health Reflect on how yourself as an individual could help or hinder working in Indigenous health
NUTD4001/7001/9212 Management and Food Service	4 / 2	Nil	
NUTD4002 Research Methods in Human Nutrition/ NUTD 9214 Critical Thinking in Nutrition	4 / 2	Guest lectures on Indigenous health research – would be good to have one on ethics and one on a practical example	Give examples of ethical principles for doing research with Indigenous communities Consider whether research examples do or do not uphold ethical principles
Independent Studies in Nutrition & Dietetics NUTD 4003/ 3110/ 9145	4 / 2	Depends on student project, but perhaps inviting those involved in Indigenous health research to submit a project	Will vary depending on project
NUTD 3104/9161 Communication and Nutrition Counselling	4 / 2	Reflective piece about the Indigenous workshop, with guidelines / questions to ask the students to get them to reflect. Include reflection on own communication style and how this might influence how they work with an Indigenous client	Reflection on own communication style and how this might influence how they work with an Indigenous person

References

- Akena, F. (2012). Critical analysis of the production of western knowledge and Its implications for Indigenous knowledge and docolonization *Journal of Black Studies*, 43(6), 599-619.
- Allan, J., Stanley, J., Crabtree, M., Werner, K., & Swenson, M. (2005). Clinical Prevention and Population Health Curriculum Framework: The Nursing Perspective. *Journal of Professional Nursing*, 21(5), 259-267.
- Andersen, C. (2009). Indigenous footprints on health curriculum *The Australian Journal of Indigenous Education*, 38(Supplement), 40-45.
- Asmar, C. (2011). Indigenous Teaching at Australian Universities: developing research-based exemplars for good practice Melbourne: The University of Melbourne
- Australian Government Department of Social Services. (2013). Closing the Gap: The Indigenous Reform Agenda Retrieved 5 December 2014, from <http://www.dss.gov.au/our-responsibilities/indigenous-australians/programs-services/closing-the-gap>
- Australian Institute of Health and Welfare. (2011). Life expectancy and mortality of Aboriginal and Torres Strait Islander people. Canberra: Australian Institute of Health and Welfare
- Behrendt, L. (2012). Review of Higher Education Access and Outcomes for Aboriginal and Torres Strait Islander People Final Report. Canberra: Australian Government
- Bennett, B., Zubrzycki, J., & Bacon, V. (2011). What Do We Know? The Experiences of Social Workers Working Alongside Aboriginal People. *Australian Social Work*, 64(1), 20 - 37.
- Biermann, S., & Townsend-Cross, M. (2008). Indigenous pedagogy as a force for change. *The Australian Journal of Indigenous Education*, 37(Supplement), 146-154.

- Bradley, D., Noonan, P., Hubert, H., & Scales, B. (2008). Review of Australian Higher Education Final Report. Canberra: Commonwealth of Australia
- Calhoun, J., Ramiah, K., Weist, E., & Shortell, S. (2008). Development of a core competency model for the master of public health degree. *American Journal of Public Health*, 98(9), 1598-1607.
- Committee of Deans of Australian Medical Schools. (2004). CDAMS Indigenous Health Curriculum Framework. Melbourne: VicHealth Koori Health Research and Community Development Unit. .
- Commonwealth of Australia. (2000). Health is Life: Report on the Inquiry into Indigenous Health Canberra: The Parliament of the Commonwealth of Australia.
- Denzin, N. & Lincoln, Y. (2011). Part 1: Locating the field. In N. K. Denzin & Y. S. Lincoln (Eds.), *SAGE Handbook of Qualitative Research* (pp. 21-25). Thousand Oaks: SAGE.
- Dietitians Association of Australia (1994). Education and Accreditation Manual. Canberra: Dietitians Association of Australia
- Dietitians Association of Australia. (2009). National Competency Standards for Entry Level Dietitians in Australia. Canberra: Dietitians Association of Australia.
- Durey, A., Wynaden, D., Thompson, S., Davidson, P., Bessarab, D., & Katzenellenbogen, J. (2012). Owing solutions: a collaborative model to improve quality in hospital care for Aboriginal Australians *Nursing Inquiry*, 19(2), 144-152.
- Eckermann, A., Dowd, T., Chong, E., Nixon, L., Gray, R., & Johnson, S. (2006). *Binan Goonj: Bridging Cultures in Aboriginal Health*. Sydney: Churchill Livingstone
- Edwards, C. (2005). The Indigenous content of Australian Nutrition and Dietetics degrees *Aboriginal and Islander Health Worker Journal*, 29(4).

- Ewen, S., Paul, D., & GL, B. (2012). Do Indigenous health curricula in health science education reduce disparities in health care outcomes? *Medical journal of Australia*, 197(1), 50-53.
- Herbert, J. (2010). Indigenous studies: tool of empowerment within the academe. *The Australian Journal of Indigenous Education*, 39 (Supplement), 23-31.
- McDermott, D. (2012). Can we educate out of racism? . *Medical journal of Australia*, 197(1), 15.
- Nash, R., Meiklejohn, B., & Sacre, S. (2006). The Yapunyah project: embedding Aboriginal and Torres Strait Islander perspectives in the nursing curriculum. *Contemporary Nurse*, 22, 296-316.
- Phillips, S., Ash, S., & Tapsell, L. (2000). Relevance of the competency standards to entry level dietetic practice. *Australian Journal of Nutrition and Dietetics*, 57, 198-207.
- Ryder, C., Yarnold, D., & Prideaux, D. (2011). Learning and unlearning: Is communication with minority patients about self or others. *Medical Teacher*, 33, 781-782.
- Stedman, A., & Thomas, Y. (2011). Reflecting on our effectiveness: Occupational therapy interventions with Indigenous clients. *Australian Occupational Therapy Journal*, 58(1), 43-49. doi: 10.1111/j.1440-1630.2010.00916.x
- Thomas, Y., Gray, M., & McGinty, S. (2011). Occupational therapy at the 'cultural interface': Lessons from research with Aboriginal and Torres Strait Islander Australians. *Australian Occupational Therapy Journal*, 58(1), 11-16. doi: 10.1111/j.1440-1630.2010.00917.x
- Vos, T., Barker, B., Stanley, L., & Lopez, A. (2007a). The burden of disease and injury in Aboriginal and Torres Strait Islander peoples. Brisbane: School of Population Health, The University of Queensland

Vos, T., Barker, B., Stanley, L., & Lopez, A. (2007b). The burden of disease and injury in Aboriginal and Torres Strait Islander peoples: Summary report Brisbane: School of Population Health, The University of Queensland

Wilson, A. (2011). *Addressing Uncomfortable Issues: The role of White health professionals in Aboriginal health* (Doctor of Philosophy), Flinders University of South Australia, Adelaide. Retrieved from <http://theses.flinders.edu.au/uploads/approved/adt-SFU20120605.113918/public/02whole.pdf>