Early childhood educators' intercultural ways of knowing: Calibrating knowledge, beliefs, and practice

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Acknowledgement ofTraditional Owners

Background

Australian children are growing up in an increasingly diverse society.

- Over 300 different languages, including Indigenous language are spoken in Australian homes (ABS, 2016)
- In 2018 almost half (49%) of the population were people born overseas, or have at least one parent born overseas (ABS, 2019)
- In 2016-2017 it was estimated that over 1.6 million of Australia's culturally diverse children were accessing early childhood services (DEEWR, 2013)

Background

- Prejudice and negative racial attitudes and judgements and can begin in early childhood between 3 and 6 years of age (Aboud & Amato, 2001; Harper & Bonanno, 1993; Raabe & Beelmann, 2011).
- Effective interventions must start in early childhood, before prejudice and negative attitudes are well established in adulthood (Dau, 2001; Levy & Killen, 2008; Quintana & McKown, 2008).
- Interculturally competent educators can have a positive impact on culturally diverse children's attendance, learning, and development; and play an important role in promoting respect for diversity and social justice (AIHW, 2015; Baxter & Hand 2013; Harrison, Goldfeld, Metcalfe & Moore, 2012; Hewitt & Walter 2014; Mann, Knight, & Thomson, 2011; Portera, 2014).

Educators' beliefs about diversity

• (e.g., Kumar & Hamer, 2013; MacNaughton & Hughes, 2007; Prasad & Ebbeck, 2000)

Culturally Relevant Pedagogy

• (e.g., Brown-Jeffy & Cooper, 2011; Gay, 2010; Ladson-Billings, 2013; Durden, Escalante, & Blitch, 2015)

Cultural Identity

• (e.g., Han, West-Olatunji, & Thomas, 2011; Marks, Patton, & Garcia Coll, 2010; Miller & Fuller, 2006)

Research Questions

1. How do early childhood educators make meaning of personal experiences with cultural diversity and how does this relate to their intercultural ways of knowing?

2. How might early childhood educators' intercultural ways of knowing relate to their practice?

Models of Intercultural Competence

Classification	Definition	Examples	
Compositional	List hypothesised components (e.g., traits, characteristics, and skills) of intercultural competence.	(Deardorff, 2004; Howard Hamilton, Richardson, & Shuford, 1998)	
Co-orientational	Concerned primarily with effective interactions and intercultural understanding (e.g., empathy, perspective taking, and shared meaning).	(Byram, 1997; Fantini, 1995)	
Developmental	Focus on development of intercultural competence over time, specifying stages of maturity.	(Bennett, 1986; King & Baxter Magolda, 2005)	
Adaptational	Emphasise interdependence and typically focus on interactions between members of different cultures; adaptation is seen as a criterion of intercultural competence.		
Causal process	Causal process Detail the hypothesised interrelationships among components of intercultural competence.		

Deardorff's Intercultural Elements

Deardorff's (2004) Delphi study identified 22 key elements of intercultural competence, which were agreed upon by 80% of the experts (administrators and scholars).

COMPONENTS OF INTERCULTURAL COMPETENCE				
Accept	Reject	Item		
20	0	Understanding others' world views		
19	1	Cultural self-awareness & capacity for self-assessment		
19	1	Adaptability - adjustment to new cultural environment		
19	1	Skills to listen & observe		
19	1	General openness toward intercultural learning		
19	1	Ability to adapt to varying communication & learning styles		
18	2	Flexibility		
18	2	Skills to analyze, interpret, & relate		
18	2	Tolerating & engaging ambiguity		
18	2	Deep knowledge & understanding of culture (own &		
		others')		
18	2	Respect for other cultures		
17	3	Cross-cultural empathy		
17	3	Understanding the value of cultural diversity		
17	3	Understanding of role & impact of culture		
17	3	Cognitive flexibility – ability to switch frames		
17	3	Sociolinguistic competence		
17	3	Mindfulness		
16	4	Withholding judgment		
16	4	Curiosity & discovery		
16	4	Learning through interaction		
16	4	Ethnorelative view		
16	4	Culture-specific knowledge/		

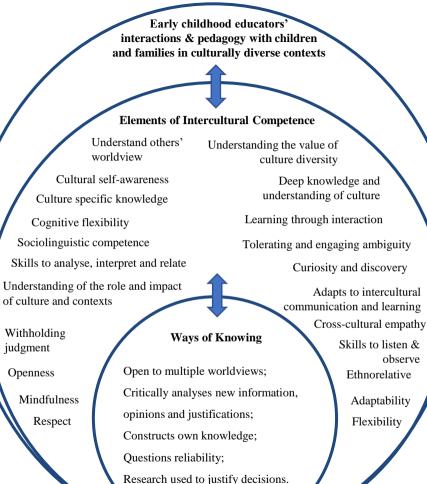
Ways of Knowing: The Nature of Knowledge & Knowing

Nature of knowledge	Certainty of knowledge	Knowledge is absolute/unchanging (truths exist) → Knowledge is tentative/evolving
	Simplicity of knowledge	Knowledge consists of an accumulation of isolated facts → Knowledge consists of highly interrelated concepts (contextual)
Nature of knowing	Source of knowledge	Knowledge originates outside oneself/ in external authority → Knowledge is actively constructed through interaction with others and the environment
	Justification for knowing	Knowledge justified through observation and authority → Knowledge is justified through rules of inquiry and evaluation/integration of different sources (Hofer, 2004; Hofer & Pintrich, 1997).



Intercultural Ways of Knowing

- The EYLF and the NQS use the term "cultural competence" rather than "intercultural competence" or "intercultural ways of knowing"
- A cultural competence perspective refers to the development of a broad set of **cross-cultural skills and knowledge**; however this understanding often **remains external** to one's identity, and **does not transform** existing "practices, attitudes, beliefs, and worldview" (Liddicoat & Scarino, 2013, p. 29).
- The term "intercultural ways of knowing" is preferable as it reflects the ongoing development of transformational understandings about culture that can act to shift our ways of knowing, thinking, and ultimately our practices.



Research Design: Multiple Case Study

- Stake's constructivist approach to case study allowed for holistic understanding through "thick description" and the production of particular knowledge rather than general knowledge (Stake, 2003, p. 140).
- Simons (2009) notes that particular case studies can resonate with others in similar contexts, allowing them to draw parallels and identify divergence with their own context, rather than broad generalisations.
- Multi method approaches, such as case study design, are required to adequately assess intercultural competence through observation of behaviours and self-report measures (Deardorff, 2009; 2015).

Participants & Kindergarten Contexts

*			O		
Case	EC service & location	Service type	Other participants	Cultural demographics (ABS, 2013)	Top countries of birth other than Aus. (ABS, 2013)
1. Heidi	Wattle Road Early Learning Centre	Privately owned and operated	Ellen (Director) Bronwyn (Owner)	Born OS 13.6% LOTE at home 8.7% Indigenous/TSI 6.2%	New Zealand, England, South Africa, Philippines & India
	Rural			Indigenous/ 101 0.2/0	
2. Bianca	Red Gum Early Education Centre	Privately owned and operated by an EC	Sarah (Director)	Born OS 19.4% LOTE at home 10.6% Indigenous/TSI 1.9%	New Zealand, England, India, Philippines & Vietnam
	Inner city	management service			
3. Yoo-Sun	Springtown Kindergarten	Community kindergarten	Carla (Director)	Born OS 55.5% LOTE at home 51.4%	China, New Zealand, Taiwan, India & Hong Kong
	Suburban			Indigenous/TSI 0.5%	
4. Vanessa	Seaside Child Care	Privately owned and	Elizabeth (Director and Owner)	Born OS 17.1% LOTE at home 6.8% Indigenous/TSI 4.1%	England, New Zealand , Scotland, Wales & Germany
	Rural	operated			
5. Maria	Riverwood Kindergarten	Community kindergarten	N/A (Maria shared the director role)	Born OS 32.3% LOTE at home 38.4% Indigenous/TSI 5.8%	England, New Zealand, India, China & South Africa
	Suburban				

Data Collected

	Case 1: Heidi	Case 2: Bianca	Case 3: Yoo-sun	Case 4: Vanessa	Case 5: Maria
Interviews	 1 scenario interview 4 stimulated recall interviews 1 summarising interview Ellen (Director) 1 individual interview Bronwyn (Owner) 1 individual interview 	 1 scenario interview 4 stimulated recall interviews 1 summarising interview Sarah (Director) 1 individual interview 	 1 scenario interview 3 stimulated recall interviews 1 summarising interview Carla (Director) 1 individual interview 	 1 scenario interview 2 stimulated recall interviews 1 written response Elizabeth (Owner/Director) 1 individual interview 	 1 scenario interview 3 stimulated recall interviews 1 summarising p interview No director at service.
Observations	30 hours	28 hours (Bianca present for 16)	30 hours	28 hours	29 hours
Documents	Kindergarten goals & philosophy Learning stories Policy documents: Programming Anti-bias/inclusion, Multicultural/ diversity Enrolment process, Orientation Yarn Up booklet.	Bianca's philosophy Policy documents Inclusion and cultural diversity Programme philosophy Website information: About us Goals Programs	Yoo-Sun's philosophy Policy documents: Inclusion and cultural diversity Communicating with Families from CALD Backgrounds Programme philosophy	Kindergarten goals & philosophy Learning stories Policy documents: • Anti-bias/inclusion • Multicultural/ Diversity • Communicating with parents	Kindergarten philosophy Family booklet Policy documents: Inclusion Communicating with parents from CALD Backgrounds

Scenario Interview

Alia is a four-year old child who has recently been enrolled into a kindergarten program. During an orientation visit her mother observes that the children are encouraged by their educators to be independent and self-sufficient during meal times. At home Alia is spoon fed at all meal times, for Alia's mother it is important that this continues at kindergarten. The educators have an understanding that the National Quality Framework encourages children to become independent and take increasing responsibility for their health and wellbeing. From this perspective, the request that Alia is spoon fed may become problematic.

- What would you do in this situation? Why?
- Do you think there is a right answer to this situation?
- How would you gain more information/knowledge about this situation?
- Would you seek out someone else's opinion about this experience?
- If this opinion conflicted with your personal beliefs, how would you resolve this tension?

Data Analysis

• The data were initially inductively coded to gain a broad sense of the educators' intercultural understandings and practices, without trying to fit the data into pre-existing codes.

• Initial analysis occurred during the data collection period and generated opportunities for probing questions in subsequent interviews.

• Informed by Stake (2006) and Braun and Clark's (2006) approach to thematic analysis, the coded data were then compared to existing self-authorship and intercultural competence research.

Case Findings

Case 1: Heidi "Question everything"

"I think I'm maybe a bit of a hippy. **I'm very big on question everything.** I've never been one of these people to just go 'okay I've been told that, alright I'll accept that'... I think you have to be confident to go 'okay I don't get that' and I know I need to ask more." (Heidi, Interview 3)

Deardorff's Intercultural Element/s

Curiosity and discovery

Learning through interaction

Way of Knowing

Question everything philosophy related to:

- Beliefs and knowledge and knowing
 - Knowledge is actively constructed
 - Knowing is evolving, integrated through different sources
- Beliefs about herself (as a learner)
- Pedagogies (e.g., encouraging children to ask questions) and interactions with others

"I would want to know why and how? How do you know that? Have you done any research? Who have you spoken to? Have you got any experience? I would want to know what your opinion is based on? Then I would need to think okay well you got your information from Wikipedia, well is that a reliable source? Then I would think is that where I would have gone to get that information, probably not. So I probably wouldn't take your opinion, but I might go talk to someone who has ten years' experience working with that culture." (Heidi, Interview 3)

Deardorff's Intercultural Element/s

Curiosity and discovery

Skill to analyse, evaluate and relate

Culture specific knowledge

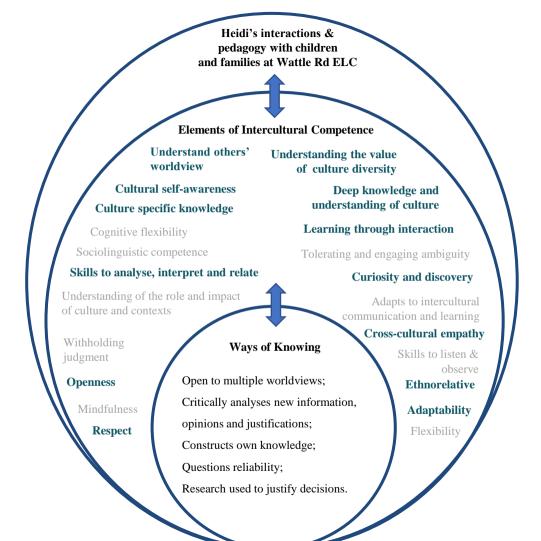
Ways of knowing

Source of knowledge: Knowledge is not accepted from authority.

Justification for knowing: Evaluates reliability of sources.

Source of knowledge: Knowledge is actively constructed through interaction with others

Summary of
Heidi's
Intercultural Ways
of Knowing



Case Findings

Case 2: Bianca "It is what it is"

"I don't think of it as a big thing. It is what it is... A lot of my friends were Chinese and my best friend growing up was from Portugal and it was just, like I'd go over to her house and we'd have, well she'd have tongue for dinner, cooked on the barbeque and things like that. I never actually ate it, but I was exposed to all of that growing up." (Bianca, Interview 2)

Deardorff's Intercultural Element/s

Ethnocentric view - Minimisation of cultural differences (Bennet, 2003)

Ways of knowing

Knowledge about culture developed through relationships with diverse others.

Exposure does not appear to influence behaviour.

"I wouldn't have thought that she would have been excluded because of the colour of her skin. I think she's just a very shy quiet kind of girl. So I would say to the parents, I would try to encourage more social interactions with her and the other children in the room to develop her social skills... so I would put it to the parents more as a social thing than as a colour of skin thing." (Bianca, Interview 1)

Deardorff's Intercultural Element/s

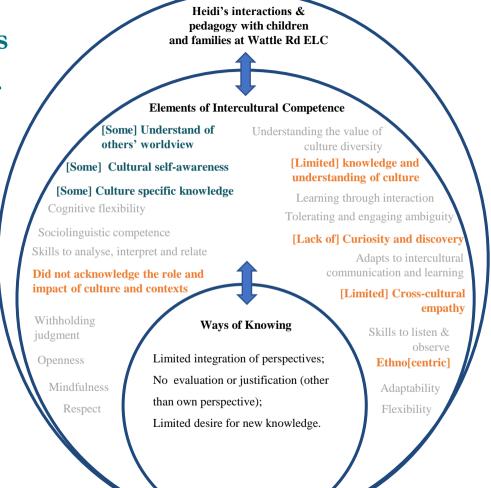
Limited evidence of cross-cultural empathy, understanding of the parents' worldviews, or the role and impact of culture in social contexts.

Ways of Knowing

No indication that Bianca is willing to see this observation from another perspective

Little concern for the parents' perspectives, focusing on her own beliefs.

Summary of Bianca's
Intercultural Ways of
Knowing



Cross-Case Findings: Intercultural ways of knowing

- All five educators expressed beliefs about understanding others' worldviews (Deardorff, 2004), however, the depth of understanding seemed to relate to their beliefs about the nature of knowing and knowledge.
- The three educators with more adaptive or evaluative ways of knowing (Heidi, Yoo-Sun & Maria) engaged in deeper levels of reflection about the influence of their own and others' cultural worldviews and appeared more curious (Deardorff, 2004) to learn about the basis of others' worldviews.
- This may relate to previous research that has suggested a relationship between evaluative epistemic beliefs and skills such as critical thinking and more constructivist approaches to learning (Braten & Stromso, 2006; Brownlee et al., 2004)

Cross-Case Findings: Intercultural ways of knowing & practice

- The intercultural attitudes of *curiosity & discovery* and *openness towards intercultural learning* (Dearorff, 2004) appeared to relate to educators' way of knowing, specifically their beliefs that knowledge is tentative and socially constructed.
- **Curiosity** relates to the core belief that that others' cultural perspectives are important and valid as one's own (Houghton, 2014), and the ability to identity and evaluate gaps in one's own knowledge base which can lead to intercultural learning.

Cross-Case Findings: Mismatch between beliefs & practice

• There appeared to be a mismatch between the educators' discussion of their intercultural beliefs and attitudes and the observations of their practice.

• Although the educators articulated a range of intercultural beliefs and attitudes in the interviews. In almost 150 hours of observations, there was not a single instance where an educator proactively engaged the children in any type of learning experience or discussion about cultural diversity.

Discussion: Mismatch between beliefs & practice

Research by Fives and Buehl (2012) offers three possible explanations for this often reported incongruence between beliefs and practice.

- 1. Beliefs can serve as filters (e.g., beliefs about knowledge and ways of knowing) which tend to influence other beliefs (e.g., intercultural beliefs), however, these beliefs are unlikely to influence practice.
- 2. The specificity of the observation template, may have been a methodological issue resulting in missed observations of less explicit practices.
- 3. Limited certainty or knowledge about diversity pedagogies may have been the simplest reason for the mismatch between beliefs and practice.

Previous research has suggested that ECEs often lack confidence or knowledge about diversity pedagogies and address issues of cultural diversity reactively, as they occur, rather than proactively (MacNaughton & Hughes, 2007).

Discussion: Calibrating beliefs & practice

- Poor calibration may account for the discrepancy often found between teachers' beliefs and practice (Maggioni & Parkinson, 2008).
- Research has found that teachers tend to overestimate the accuracy of their knowledge (Cunningham et al., 2004, 2009; Lichtenstein & Fischhoff, 1980).
- Accurate calibration is important as poor calibration can limit teachers' receptivity to new knowledge, ideas, and practices, as they "do not always know what they do not know" (Cunningham et al., 2004, p. 162).

Discussion: Calibrating beliefs & practice

- A focus on calibrating beliefs and practices may to allow educators to critically examine their own intercultural practice to identify gaps and plan for future action.
- Action orientated practices would involve educators proactively addressing diversity and culture, to tackle issues related to inequity and social justice. As seen in the anti-bias approach (Dau, 2001; Derman-Sparks, 1989; Scarlett, 2016).

Contributions

- 1. Highlighted the need to better understand why the educators did not consistently put their intercultural attitudes and beliefs into practice.
- 2. The integrated "Intercultural ways of knowing" conceptual framework
 - a. Provided a new way of theorising about how educators make meaning in intercultural contexts through a social constructivist lens.
 - b. Acted as an analytical framework to analyse the interviews and observations.
- 3. Qualitative multiple case study allowed for the assessment of intercultural competence to move beyond the use of self-report measures

Implications & Future Directions

For practice

Using reflective conversations and observation of practice to promote calibration between beliefs and practice → intercultural meaning making and identification of potential gaps in practice for pre-service and practicing teachers.

For policy

Shift from a cultural competence perspective to a focus on intercultural ways of knowing – Shifting thinking and practice, rather than just acquiring discreet knowledge and skills.

Limitations

- Convenience sampling
- Number of participants
- Timing and context of the interviews

Conclusions

As Australia's population continues to become more culturally diverse,
early childhood educators are faced with an important and challenging task

— to promote cultural inclusion and to challenge negative views of cultural
diversity in early childhood contexts. Such a task requires a workforce
prepared to engage in critical intercultural conversations.

Thank You

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References

Aboud, F. E., & Amato, M. (2001). Developmental and socialization influences on intergroup bias. In R. Brown & S. Gaertner (Eds.), Blackwell's handbook of social psychology; Intergroup processes (pp. 65-85). Malden, MA: Blackwell.

Australian Bureau of Statistics. (2012). Cultural diversity in Australia. Retrieved from http://www.abs.gov.au/ausstats/abs@.nsf/Lookup/2071.0main+features902012-201

Australian Institute of Health and Welfare. (2015). Literature review of the impact of early childhood education and care on learning and development: Working paper. Cat. No. Cws 53. Canberra: AIHW Retrieved from https://www.aihw.gov.au/WorkArea/DownloadAsset.aspx?id=60129552948.

Baxter, J., & Hand, K. (2013). Access to early childhood education in Australia (research report no. 24). Melbourne: Australia (research report no. 24).

Baxter Magolda, M. (2001). Making Their Own Way: Narratives for Transforming Higher Education to Promote Self-Development. Sterling, VA: Stylus Publishing.

Baxter Magolda, M. B., & King, P. M. (2004). Learning partnerships: Theory and models of practice to educate for self-authorship. Sterling, VA: Stylus.

Bråten, I., & Strømsø, H. I. (2006). Epistemological beliefs, interest, and gender as predictors of internet-based learning activities. Computers in Human Behaviour, 22, 1027-1042.

Braun, V., & Clarke, V. (2006). Using thematic analysis in psychology. Qualitative Research in Psychology, 3(2), 77-101. doi: 10.1191/1478088706qp063

Brown-Jeffy, S., & Cooper, J. E. (2011). Toward a conceptual framework of culturally relevant pedagogy: An overview of the conceptual and theoretical literature. Teacher Education Onarterly, 38(1), 65-84

Brownlee, J., & Berthelsen, D. (2004). Working with toddlers in child care: Personal epistemologies and practice. European Early Childhood Education Research Journal, 12(1), 55-70.

Dau, E. (2001). The anti-bias approach in early childhood. Frenchs Forest, NSW: Pearson.

Deardorff, D. K. (2004). The Identification and Assessment of Internaliural Competence as a Student Outcome of Internationalization at Institutions of Higher Education in the United States. (Doctor of Education), North Carolina State University. Retrieved from http://repository.lib.nesu.edu/ir/bitstream/1840.16/5733/1/etd.odf

Deardorff, D. K. (2009). Implementing intercultural competence assessment. In D. K. Deardorff (Ed.), The sage handbook of intercultural competence (pp. 477-491). Thousand Oaks, Calif. Sage Publications.

Deardorff, D. K. (2015). Intercultural competence: Mapping the future research agenda. International Journal of Intercultural Relations, 48, 3-5. doi:10.1016/j.ijintrel.2015.03.002

Department of Education Employment and Workplace Relations. (2013). 1.3 million Australian children now getting better quality child care Retrieved from http://ministers.deewr.gov.au/ellis/13-million-australian-children-now-getting-better-quality-child-care

Department of Immigration and Citizenship. (2011). The people of Australia: Australia: Australia: Multicultural policy. Retrieved from http://www.immi.gov.au/media/publications/multicultural/pdf_doc/people-of-australia-multicultural-policy-booklet.pdf

Durden, T. R., Escalante, E., & Blitch, K. (2015). Start with us! Culturally relevant pedagogy in the preschool classroom. Early Childbood Education Journal, 43(3), 223-232. doi:10.1007/s10643-014-0651-8

Han, H., West-Olatunji, C., & Thomas, M. S. (2011). Use of racial identity development theory to explore cultural competence among early childhood educators. Journal of the Southeastern Regional Association of Teacher Educators, 20(1), 1-11.

Harrison, L., Goldfeld, S., Metcalfe, E., & Moore, T. (2012). Early learning programs that promote children's developmental and educational outcomes (resource sheet no. 15). Melbourne: Australian Institute of Family Studies.

Hewitt, B., & Walter, M. (2014). Preschool participation among indigenous children in Australia. Family Matters, 95, 41-50.

Hofer, B. (2004). Exploring the dimensions of personal epistemology in differing classroom contexts: Student interpretations during their first year of college. Contemporary Educational Psychology, 29, 129-163

Houghton, S. A. (2014). Exploring manifestations of curiosity in study abroad as part of intercultural communicative competence. System, 42C, 368-382. doi:10.1016/j.system.2013.12.024

Kegan, R. (1994). In over our heads: The mental demands of modern life. Cambridge, MA: Harvard University Press.

King, P. M., & Baxter Magolda, M. B. (2005). A developmental model of intercultural maturity. Journal of College Student Development, 46(6), 571-592.

Kumar, R., & Hamer, L. (2013). Preservice teachers' attitudes and beliefs toward student diversity and proposed instructional practices: A sequential design study. Journal of Teacher Education, 64(2), 162-177. doi:10.1177/0022487112466899

Ladson-Billings, G. (2013). The dreamkeepers: Successful teachers of african american children (2nd ed.). Chichester: Wiley.

Levy, S. R., & Killen, M. (2008), Intergroup attitudes and relations in childhood through adulthood, Oxford, England: Oxford University Press,

Liddicoat, A. (2005). Culture for language learning in Australian language-in-education policy. Australian Review of Applied Linguistics, 28(2), 28-43.

Liddicoat, A., & Scarino, A. (2013). Intercultural language teaching and learning (Vol. 1. Aufl.;1;). Malden, MA; Chichester, West Sussex, UK;: Wiley-Blackwell.

MacNaughton, G., & Hughes, P. (2007). Teaching respect for cultural diversity in australian early childhood programs: A challenge for professional learning. Journal of Early Childhood Research, 5(2), 189-204. doi:10.1177/1476718X07076729

Mann, D., Knight, S., & Thomson, J. (2011). Aboriginal access to preschool. What attracts and retains Aboriginal and Torres Strait Islander families in preschools? Retrieved from http://www.sdn.org.au/downloads/Aboriginal%20Access%20to%20Preschool%20study.pdf.

Marks, A. K., Patton, F., & Garcia Coll, C. (2010). More than the a-b-cs and 1-2-3s: The importance of family cultural socialization and ethnic identity development for children of immigrants' school success. In E. L. Grigorenko & R. Takanishi (Eds.), Immigration, Diversity, and Education (pp. 242-258): Taylor and Francis.

Miller, K. J., & Fuller, D. P. (2006). Developing cultural competency in early childhood preservice educators through a cultural self-analysis project. Journal of Early Childhood Teacher Education, 27(1), 35-45. doi:10.1080/10901020500527152

Portera, A. (2014). Intercultural competence in education, counselling and psychotherapy. Intercultural Education, 25(2), 157-174. doi:10.1080/14675986.2014.894176

Prasad, R., & Ebbeck, M. (2000). Policies and practices that create multicultural contexts in child care. Australian Journal of Early Childhood, 25(4), 9-15.

Quintana, S. M., & McKown, C. (2008). Race, racism, and the developing child. Hoboken, N.J.: John Wiley.

Raabe, T., & Beelmann, A. (2011). Development of ethnic, racial, and national prejudice in childhood and adolescence: A multinational meta-analysis of age differences. Child Development, 82(6), 1715-1737. doi:10.1111/j.1467-8624.2011.01668.x Simons, H. (2009). Case study research in practice. London: Sage Publications.

Stake, R.E. (2003). Case studies. In N. K. Denzin & Y. S. Lincoln (Eds.), Strategies of qualitative inquiry (2nd ed., pp. 134-164). Thousand Oaks, CA: SAGE Publications.

Stake, R. E. (2006). Multiple case study analysis. New York: The Guilford Press.

Spitzberg, B. H., & Changnon, G. (2009). Conceptualizing intercultural competence. In D. K. Deardorff (Ed.), The sage handbook of intercultural competence (pp. 2-52). Thousand Oaks, CA: Sage Publications.