The Medicine Wheel Revisited: Reflections on Indigenization in Counseling and Education

Lloyd Hawkeye Robertson

Abstract
Indigenization involves relating traditional cultures to modern methods, concepts, and science to facilitate their use by those populations. Despite attempts to indigenize both the practice of counseling and the content of educational curricula, mental health and educational deficits in Amerindian communities have remained. This article suggests indigenization in the North American context is often based on a reified view of culture that discounts naturalistic and scientific approaches, and that this dynamic inhibits progressive cultural change at institutional and community levels. A secular approach to indigenization is proposed that relates modern conceptual thought to traditional cultures in a way that is consistent with traditional constructs. The medicine wheel, traditional to North American Great Plains cultures, is applied to counseling to illustrate how concepts found in aboriginal cultures could inform modern practice with wider applications to curriculum development. Related tensions involving interpretations of aboriginal spiritualities and modernity are discussed.

Keywords
medicine wheel, cross-cultural counseling, indigenization, aboriginal mental health, aboriginal education, aboriginal spirituality

As Director of Lifeskills for the Saskatchewan Indian Federated College in Regina, Canada, during the 1980s, I would be asked, “Why do we (aboriginal people) always have to become more like them (non-aboriginal people), why can’t they become more like us?” While modern North American cultures are constituted by the histories of their constituent peoples, including those aboriginal to the continent, these students were actually voicing alienation from a modern educational system that emphasizes mathematics, logical constancy, and chronological time delineated behavior—skills that were not indigenous to Canadian hunter-gathering societies. Attempts to rectify such alienation have included calls for the indigenization of curricula that are pictured as “western” or “European” (Barman et al., 1986; Louie et al., 2017).

Counseling is also pictured as Euro-American and unsupportive of aboriginal cultural traditions (McCormick, 1996; Poonwassie & Charter, 2001; Sojonky, 2010) with the result that some aboriginal students are unwilling to see nonnative counselors (Dolan, 1995). Indigenization in this context is a process whereby an imported psychology is transformed in ways that are appropriate to the local culture (Adair, 2006). Indigenization may be understood as the appropriation of technologies, practices, or systems of conceptual thought in ways that accord with the receiving culture.

Swidler (1986) redefined culture as excluding change to technology and material artifacts while including “beliefs, ritual practices, art forms, and ceremonies, as well as informal cultural practices such as language, gossip, stories, and rituals of daily life” (p. 273). Although technologies and artifacts per se may not be part of culture, the ways that they are used and interpretive significance given them would be. In this article, cultures are held to be fluid concepts consisting of generally shared experiences or generic representations that may be called cultural schemas common to populations linked by tradition (Quinn, 2011). As counseling and education can effect change in the mental schemas held by clients and students, the acquisition of the knowledge, attitudes, and skills required by them to participate successfully in modern economies will inevitably lead to changes in their family and community cultures. The alternate view that cultures are defined entities as opposed to fluid concepts leads to at least two important corollaries: (a) a person could have incompletely or inadequately learned a culture with which he or she identifies or is otherwise assigned making that person a less worthy representative; and (b) speakers from a defined culture may make knowledge claims that are at variance with those made by speakers.

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from other cultures but are nonetheless of greater truth for the represented cultural group. Representative of this perspective on culture, a peer reviewer of an earlier version of this manuscript asked whether the author was aboriginal and writing from an indigenous perspective. Had I identified as a person with aboriginal ancestry, I could still have been accused, under this paradigm, of not taking an “aboriginal perspective.” Such a static and defined view of culture is similar to a religiously held dogma in that deviations from a prescribed belief system are proscribed.

The goal of this article is to suggest a paradigm of dynamic cultural change compatible with secular enlightenment that is rooted in cultures indigenous to North America. Using the concept of the medicine wheel as a metaphor for traditional cultural knowledge generally, it is argued that the practice of indigenization in counseling and curriculum development will contribute to progressive change. World views based on a static or essentialist view of culture, it will be argued, have impeded participation in the modern economy by aboriginal peoples. It is suggested that historical and interpretive factors used in advancing the essentialist view are in need of reexamination. We begin by establishing a case for such a reframe.

**Stalled Education: Colonization and “Indian Control”**

Education is an important value in human cultures. Goulet and Goulet (2014) identified three forms of the teaching-learning process conceptualized in the indigenous Cree language: “kiskinaumegahin (teaching oneself), kiskinaumasowin (teaching oneself), and kiskinaumatowin (teaching each other)” (p. 65). While teaching as a profession was necessitated by the increased complexities of modern civilization and falls within the rubric of “teaching another,” the introduction of such education to students aboriginal to Canada had disastrous consequences. The Canadian government contracted with five churches to provide education with the goal of assimilating indigenous students into the colonial economy with the churches responsible for operating costs. The Canadian prairies typically taught farming and animal husbandry with students providing manual labor half days.

When these “industrial schools” failed to generate sufficient revenues, many students suffered from malnutrition and disease. Furthermore, examples of physical and sexual abuse of Indian Residential Schools were widespread (Aboriginal Healing Foundation, 2006; Barman et al., 1986). While such experiences contributed to a negative view of education among many indigenous people, it is important to also consider that this view was not universally held. When the Canadian government attempted to end the residential school program in 1969, the Federation of Saskatchewan Indian Nations (FSIN) successfully lobbied to keep the schools open in their province. Hired by FSIN as part of this process, educational consultants Robertson and Redman (1988) were told the Indian residential school system was to be maintained because (a) the quality of residential school education was considered superior to that offered by on-reserve day schools and (b) the schools effectively provided an alternative to the apprehension of children in dysfunctional families by child welfare agencies.

Schools have also been viewed as a vehicle for cultural preservation. In a 1972 policy document, the National Indian Brotherhood (NIB) declared, “The present school system is culturally alien to native students . . . School curricula in federal and provincial/territorial schools should recognize Indian culture, values, customs, languages and the Indian contribution to Canadian development” (“Indian control of Indian education,” 1972, p. 9). Prototypically, the Plains Indians Cultural Survival School was established in Calgary, Canada, with 50% of its curriculum consisting of cultural components, including “bustle-making, hide-tanning, drumming, Indian dances, native languages, tepee-making and visits with native elders” (Friesen, 1983, p. 54). This model emphasizing indigenous cultural restoration coupled with local control at primary, secondary, technical and university levels has been replicated across Canada.

This level of indigenization did not result in improved academic achievement. Richards (2014) found that aboriginal students have a significantly higher incompleteness rate in band-run reserve-based secondary schools (58%) than in provincial schools (30%). Those who do graduate may not have the literacy skills implied by their grade level. During my experience as an educational psychologist with a northern community college servicing a largely (80%) aboriginal population, I found that graduates of band-run schools often obtained scores 3 to 7 years below grade level on standardized tests of reading and mathematical achievement. A study of Grade 3, 6, and 9 Albertans found that 50% of aboriginal students were not achieving at grade level (Richards & Scott, 2009).

This educational achievement gap cannot be totally attributed to shortfalls in funding. In their comparative study, Richards and Scott (2009) found that federal funding for First Nations schools exceeded the average per student funding provided by provincial governments by more than $4,000 CAD. The achievement gap in education could be partly explained by conflicting expectations between educational authorities and local communities. At the university level, Robertson et al. (2015) documented examples of indigenous students whose educational success was considered secondary to the culturally sanctioned demands of their families. Students in counseling described themselves as “caught between two worlds” with the implication that their formal education was considered secondary in one of those worlds.

Another explanation for the education gap between aboriginal, particularly Amerindian, and non-aboriginal
students is that the increase in aboriginal cultural content has brought with it a concomitant assumption that traditional “aboriginal ways of knowing” are equivalent to modern conceptual thought. But as Widdowson and Howard (2013) warned, “Because hunting and gathering/horticultural societies lack a culture of literacy, incorporating aboriginal traditions will not facilitate the values, skills, and attitudes that aboriginal people will need to obtain a scientific understanding of the world” (p. 303). As a considerable body of research emphasizes the necessity for cultural grounding in learning (Banks, 2001; Hutcheon, 1999; Petersson et al., 2007), a suggestion that cultural teaching may retard learning requires further examination.

Anyone bereft of culture would not have the constructs, the mental scaffolds, upon which to organize and understand experience. Indeed, such a person would not have the language to describe that experience. This is not how cultural loss is usually presented. A more essentialized view is that culture is a “thing” that exists independent of a body of people but can be possessed by them (Waldrum, 2004). In such a view, modern science and mathematics may be presented as European, colonialist, or “western.” However, extending the definition used by Swidler (1986), modern conceptual thoughts, especially as found in science and advanced mathematics such as statistics, are not, in themselves, cultural, thus freeing each culture to appropriate scientific, mathematical, and concomitant critical thinking abilities in the course of their own evolution. The evolution of Euro-American cultures from their medieval roots included (a) scientific discoveries rendering old faith-based teachings obsolete and (b) cross-cultural contact contributing to a globalization of their (Euro-American) world view. As a result of this evolution, any school curriculum that taught a geocentric model of the universe or the inherent superiority of European races would not be tolerated. Nonetheless, a continuity of descent marks this education as “European” to students within the Euro-American tradition. The indigenization of curricula within Amerindian traditions requires a similar descent, and such a cultural descent has also been recommended in counseling (Chandler & Lalonde, 1998; Poonwassie & Charter, 2001).

The use of multisensory presentations, democratization of grading, and the use of oral storytelling has been commended as representing indigenization of methodologies in the Canadian context (Louie et al., 2017). All of these techniques had been previously commended by non-aboriginal educators in non-aboriginal settings (McCown et al., 1996; Nelson & Michaelis, 1980; Postman & Weingartner, 1969); therefore, the marker of aboriginality could not have been found in the method but in the content. The development of active listening and critical thinking skills may be enhanced by cross-cultural content grounded in the student’s own culture, but if the purpose of teaching cultural content is to inculcate the student in a particular belief system or worldview, then that would serve to thwart the development of such critical thinking abilities.

While the reification of culture may have the effect of closing minds to new knowledge, it is also possible to view education as a process of opening minds to new possibilities with debates about culture and multiculturalism at the heart of education as a meaningful project (Robertson et al., 2020). If we view all cultures as aggregates evolved from historical and contemporary appropriation, then each participant in the cultural project becomes an authorized speaker capable of investing in culture in creative ways with applications dependent on context and purpose. Under this paradigm, education has the potential to be transformative (Robertson & Conrad, 2016) with individual self-definition enhanced and expanded from a menu of possibilities of increasing size and scope.

**Ethical Issues in Education and Counseling Associated With Cultural Reification**

While it has been suggested that education and mental health gaps facing Amerindian peoples in Canada may be attributed to cultural insensitivity and even racism on the part of providers (Barman et al., 1986; Chandler & Lalonde, 1998; Louie et al., 2017), a lack of receptivity to services perceived as “western” or “Euro-Canadian” by indigenous students may also explain such deficiencies. It is argued here that the reification of a set of beliefs about aboriginal spirituality creates resistance to learning modern concepts and that such reification is counterproductive in a quest for cultural continuity. In this example, the Medicine Wheel, as a sacred and unvarying ontological dictum is unhelpful, but the medicine wheel concept as an epistemological understanding may serve as a bridge for connecting culture to technological and scientific development. The medicine wheel has been used in various forms to build identity (Mussel, 2005), adult life skills development (Lavalley & Wilson, 2006), and adult basic education (Clarke et al., 1998), and such usage suggests the compatibility of the medicine wheel concept with science and reason. Before building on this theme, we need to consider the process of reification.

The Cree elder advised, “If you have even a little (aboriginal ancestry) then you can choose to be either Indian or white, but you cannot be both.” Such a view conflates race with culture with the implication that culture is a quantifiable thing that is subject to choice only if one is of mixed ancestry, and even then only as a binary “either or” proposition. In such an essentialist view, cultural assimilation may be equated with genocide (Swidrovich, 2004; Wesley-Esquimaux & Smolewski, 2004). While effective teaching and counseling necessarily relates to the worldview of the student or client, the essentialist view holds that if the individual does not sufficiently know or identify with their ascribed culture, then he or she has lost something and is judged to be unhealthy (Robertson, 2011b). “Loss of culture” by those who can trace at least part of their genetic ancestry to those aboriginal to North America has been blamed for a host of social problems with cultural restoration frequently
The process of cultural restoration is not always appreciated. Elders in one northern community said they recognized that their community had not always been Christian, but efforts to teach them Aboriginal Spirituality based on southern (plains buffalo culture) normative beliefs felt oppressive (Robertson, 2015). Such conflict between Aboriginal Spirituality and Christianity has not been uncommon (Aboriginal Healing Foundation, 2006). Swidler (1986) explained that during “unsettled times,” ideologies become highly articulated and directive “because they model patterns of action that do not ‘come naturally’” (p. 284).

Religious belief, as defined here, begins when a source is considered authoritatively omnipotent. For example, a Saulteaux elder expressed the concern that “white” schools teach his grandchildren Earth goes around the sun, but his elders taught him the reverse (Scott & Nippi, 2004). If the views of these long-deceased elders were taken as revealed truths not subject to material evidence, then these views were held religiously. Such religiously held views may conflict with scientific teachings in educational settings. For example, Ontario philosopher Christopher DiCarlo faced a university disciplinary hearing after two students complained his suggestion of a common human African ancestry was insensitive to an Amerindian teaching that aboriginal people were placed on the American continents by a “Creator” (Kaill, 2005). While notions of a geocentric universe and a creator-god are also indigenous to European cultures, cultural accommodations have been made, allowing teachers to reference science even in non-science courses. Teaching religiously held belief as fact (or an alternative factum) in education classes can be offensive to people with a scientific worldview. One participant in a workshop on Prior Learning Assessment and Recognition for staff at a northern community college commented,

Our provincial Department of Higher Education and Manpower has no more business teaching Native Spirituality—with the intent of conversion—than it has teaching Tibetan Buddhism . . . Imagine what towering indignation would have been engendered had (the instructor) been a Catholic and she had asked us to burn incense, to partake in Holy Sacraments, to confess our sins, and had (the instructor) been a Catholic and she had asked us to burn incense, to partake in Holy Sacraments, to confess our sins, and tied problem-solving to the four points of the Cross. (Robertson, 2011a, pp. 99–100)

The “four points of the Cross” in this example is an allusion to the four parts of the Medicine Wheel reproduced in Figure 1. This medicine wheel has been capitalized, referenced in the singular, and described as a sacred part of Aboriginal Spirituality (Dyck, 1998; Sanderson, 2010).

The quadrants represent what are thought of as the four dimensions essential for life balance: mental, physical, emotional, and spiritual. This medicine wheel may be expanded to include four seasons, directions, races, and periods of life overlaid on the basic medicine wheel with each item in a set of four presented in separate quadrants. Holism is then defined as recognizing the interconnectedness of all four quadrants, and that each must be represented in the life of the individual for that person to be healthy.

The division of the circle into four quadrants makes mathematical sense if it is used to represent two variables—one on each of the x- and y-axis, but the use of the number four in this medicine wheel is arbitrary. For example, the notion that there are four races - red, yellow, black, and white - does not conform to scientific understandings of the concept (Miele, 2002; Pinker, 2002; Templeton, 1998) and may have been appropriated from the Christian children’s song Jesus Loves Me. While it may be generally thought that there are four seasons, the traditional Woodland Cree had six. The representation of four life stages, including child, teenager, adult, and elder, must be a recent application to the medicine wheel because the concept of “teenager” is a modern European invention.

There is no direct translation for the English word mental in languages aboriginal to Canada. For example, the Cree word/phrase Kiskwew (literally, “s/he is crazy”) is used to represent the term in that language to the angst of practicing mental health workers. It can be inferred that whoever first added the word mental to the Medicine Wheel was probably thinking in a European language, and then sought to translate the concept into an aboriginal language. As the wheel was not indigenous to aboriginal North American cultures, the very term medicine wheel must be viewed as a cultural appropriation. Widdowson and Howard (2013) questioned whether the concept itself could be used to advance critical thinking, the dissemination of abstract ideas, or the organization of complex information into constituent parts:

While it appears that the Medicine Wheel . . . offers a more systematic pedagogical technique (as compared to concrete conceptualizations in hunter-gatherer societies), this turns out to be a mirage. The “constituent parts” that emerge from the “breaking down of complex situations” are arbitrarily constructed, the only basis for which is a spiritual belief about the significance of the number four. (p. 294)

The teaching of this Medicine Wheel along with other beliefs associated with Aboriginal Spirituality presents an
ethical dilemma for professionals who believe education involves teaching analytic skills concomitant with opening young minds to multiple possibilities. Psychotherapists and counselors who assume the construction of an aboriginal self is based on Aboriginal Spirituality potentially do disservice to aboriginal clients whose worldviews are constructed differently. It will be argued that there is a much older concept of the medicine wheel that is amenable to both modern education and counseling that is client-centered.

**Using the Lens of Diversity to Understand the Stone Medicine Wheels of the Plains**

There have been tens of thousands of circular structures dotting the Great Plains of North America with most identified as “tipi rings”—stones used to hold the flaps of a tipi in place. Some rings do not fit this explanation. After restricting the definition to include only those circular stone structures too large to be a tipi ring having a central stone cairn, one or more concentric stone circles, and/or two or more stone lines radiating outward from the center, Brumley (1988) estimated that there were between 100 to 200 stone medicine wheels on the plains. Two medicine wheels (one near the Bow River in southern Alberta and another at Medicine Mountain, Wyoming) are divided into 28 pie-shaped parts (Grinnell, 1922). It has been suggested that medicine wheels in Wisconsin (Bender, 2008), Alberta, Saskatchewan, and Wyoming (Freeman, 2009) are aligned with astrological phenomena, but this suggestion remains controversial (Vogt, 2015). Restricting the definition to include only those structures divided into four (or multiples of the number four) would exclude these medicine wheels from the classification.

In estimating there to be more than 340 medicine wheels, Robertson (2014b) included circular structures too large to be tipi rings that are not divided at all, and those that are divided without reference to a central hub or spokes as with, for example, parallel lines. An example of such a medicine wheel can be found at the Tie Creek site in eastern Manitoba, Canada (Steinbring & Muller, 2012). This site includes a triangle centering a large circle of stones connected by a complex of lines to other petroforms, including a large winged bird. It would be curious to deny that this is a “medicine wheel” while conferring the title on other structures that have potentially less obvious interpretive and ceremonial significance. An equally important consideration is that the act of taking a modern definition of the term *medicine wheel* and applying it to ancient stone structures (albeit loosely to figures divided in ways that are not multiples of the number four) restricts the interpretive possibilities that may be attached to such structures, thereby potentially minimizing the traditional cultural wisdom contained therein. It is argued here that the traditional spirituality of the aboriginal inhabitants of North America employed flexible teachings having a pragmatic character.

This flexible and pragmatic interpretation of the medicine wheel concept may be applied to counseling.

**Using the Medicine Wheel Concept in Counseling**

Adlerians traditionally eschew the medical model in favor of a psychotherapy focussed on educating the client in new behaviors that better meet individual goals (Christensen & Marchant, 1993; Morris, 1993/2004). In comparing the holism of the aboriginal medicine wheel with that of Individual (Adlerian) Psychology, Roberts et al. (1998) acknowledged, “A wide variety of medicine wheels exist and no one claims a particular official symbol” (p. 137). Nonetheless, they produced what they called a “generic” medicine wheel reproduced in Figure 2. The reference to four directions in this figure suggests wholeness, but the attachment of the qualities of power, uniqueness, vision, and connectedness to specific directions appears to be arbitrary. The quality of individual uniqueness is not often attributed to collectivist cultures; however, the sense that we are unique individual beings is necessary to exercise personal decision-making and forward planning (Damon & Hart, 1988; Robertson, 2020).

I taught an undergraduate university class on contemporary native health issues in which students were invited to create their own personal medicine wheel. While many drew a wheel with four divisions, the number of spokes ranged from 0 to 18. One aboriginal person drew a series of concentric circles with herself surrounded by family, community, “helpers” (meaning outside agencies such as educators and counselors), and “white” society. Another student used spokes to divide a circle into categories representing vision, compassion, family, work, education, language (Cree), planning, doing, love, nature, and God. Although it might be possible to reduce such a self-characterization to four more general categories, doing so serves to constrain the individual’s meaning and relational experience.
If counseling were to be viewed as advice giving, then it would be expected that the advice so given would be informed by the cultural background of the counselor. Alternatively, the counselor could learn and reference a set of values appropriate for the individual based on his or her assigned cultural designation. Either stance is prescriptive with the direction of client-change determined by forces external to the client. Traditionally, professional counselors and psychotherapists use more client-centered approaches with advice giving minimized.

Counselors concerned with issues of identity within the field of psychology typically attempt to create a shared holistic understanding of the selves of their clients (Adler, 1927/1957; Dryden et al., 2001; Epstein, 1994) with client-directed self-change based on new information or alternative preferred narratives (Hermans, 2006; Robertson, 2016; Strong & Zeman, 2005). The role of the counselor is to assist in information gathering and the generation of alternative interpretations. While the use of a refined Medicine Wheel both constrains the presentation of the self and externalizes the direction of change, it is argued here that the use of the medicine wheel concept is both in keeping with aboriginal tradition and consistent with a nondirective view of counseling. Counselors may use the concept of the medicine wheel without teaching any one form as correct. Examples of different medicine wheels could be presented so as to capture the idea of diversity along with the common theme of holism. These unique medicine wheels would reflect individual values, behaviors, and world views, and the act of self-reflection may promote self-understanding with the decision to initiate change in keeping with the principle that the client is the expert on himself.

Both aboriginal and western counseling accepts client individuality within a social context and decision-making based on client choice. In a qualitative analysis of the writings of 17 schools of psychology and the transcripts of an equal number of interviewed Inuit elders, Korhonen (2002) found universal acceptance of such client-centeredness in problem definition, goal-setting, and choice of interventions. Positive psychologists (Dahlsgaard et al., 2005; Hart & Sasso, 2011; Seligman et al., 2005) have reported cross-cultural success by inviting clients to define for themselves terms like happiness and meaning and to cognitively plan, and psychotherapists use more client-centered approaches found in collectivist societies (Robertson, 2020). If the client is viewed as self-actualizing, then he or she effectively becomes a culture of one and each counseling relationship becomes a cross-cultural exploration. In such a paradigm, aboriginal identity development can be supported without presuppositions as to what that identity will entail. While the Medicine Wheel pictured in Figure 1 makes such presuppositions as to how an aboriginal self should look, the medicine wheel in Figure 3 illustrates how the different schools of psychology gain an understanding of the self that is embedded in each “culture of one.”

Figure 3 was prepared by recognizing a continuum between physical and mental states of the individual on the x-axis and a continuum between active and passive states on the y-axis. The intersection of the two axes creates four quadrants labeled: cognitive, emotive, physiological, and behavioral. Various therapies were situated on those quadrants based on their primary focus. Given a holistic perspective, it is anticipated that intervention directed at any one quadrant will necessarily create change in the other three. Thus, a client with attention deficit disorder could be given stimulant medication with the expected result that the medication will influence subsequent emotions, cognitions, and behavior. Similarly, a behavioral plan directed at the same condition would be expected to produce changes in the other three quadrants. Of course, some therapies, such as cognitive behavioral therapy, may address two or more quadrants directly as part of their methodology. Counselors can use this medicine wheel to explain to clients the process and expected results of therapy while building a holistic picture of the client’s self (Robertson, 2020).

Discussion

If we view traditional indigenous cultures as holistic (Poonwassie & Charter, 2001; Sanderson, 2010), then distinctions between modern constructs such as education and counseling may be seen as arbitrary. As we have seen, education in the modern era can be transformative of the self while counseling as practiced by many psychotherapists is often educational. It is hardly surprising, therefore, that practices and conceptualizations predating the modern era in any given culture would transcend modern categorical boundaries. It has been argued here that such transcendence is a potentiality of the ancient itineration of the medicine wheel.

As culture does not include technology or artifacts (Swidler, 1986), modern scientific and mathematical laws also transcend culture. Thus, while the Age of Enlightenment leading to the modern explosion of knowledge began in Europe, thus rendering the term western science an accurate description of the locale of that knowledge explosion during one historical epoch, the corollary that there are other culturally bound “ways of knowing” that are equally efficacious serves to defeat both the educational objective (Robertson et al., 2020) and the psychotherapeutic objective of
developing “mind” (Robertson, 2017). It is the function of culture, then, to relate to science, technology, mathematics, and existing artifacts in some ways. The challenge then is not to replace “western science” with “cultural wisdom” but to link the knowledge therein to indigenous cultures. By facilitating a meaningful appropriation of the techniques by which new knowledge may be learned, aboriginal people will generate new knowledge. We are aided by the belief that aboriginal spirituality is not a religion but a variety of life stances that are open to change based on evidence and reason.

This article began with the suggestion that curricular indigenization to Amerindian cultures will necessarily involve the rooting of modern conceptual thought to earlier cultural constructs in a process of directed evolution. Figure 3 demonstrated how the medicine wheel can be used to illustrate modern conceptual thought in counseling and psychotherapy. Just as it is possible to use the concept of the medicine wheel without attempting to enforce a particular world view, other themes in aboriginal spirituality may be referenced without reifying a particular set of practices and beliefs. Berry (1999) found that a relationship with the land such as being able to hunt, trap, fish, and go berry picking was generally important to the spirits of Inuit, Amerindian, and Metis peoples. It is not necessary to script a particular way of interacting with the land. For example, Robertson (2015) reported on a successful community development program that included Christian indigenous elders taking youth out into the Precambrian Boreal Forest of northern Canada to learn survival skills. In the author’s private practice as a counseling psychologist, it is sometimes suggested that clients consider spending time on family “traplines,” an area traditionally used by a family for the purpose of trapping fur-bearing animals. What the clients do on their trapline that is therapeutic is individualized.

From a holistic perspective, both the student counseling services and curriculum offered by an educational institution are part of a common institutional culture. The indigenization of one cannot be successfully accomplished in isolation. While this article drew on an exemplar involving counseling practice, it is an exemplar with implications for curriculum development. Both involve opening minds to new possibilities. The individual agency implied by such education is not incompatible with cultural grounding:

A relativist position that all cultural tenets are of equal truth or value serves to nullify the cognitive revolution; however, the capacity to take an objective stance can be applied to the interpretive understanding of textual and oral tradition. We hold that it is possible to be inclusive of cultures even if their basic texts are contradictory, provided the process is of being challenged by tradition and working to adopt it in the manner appropriate to one’s own historical circumstance and in preparation for the pluralistic situation of living with other people. (Robertson et al., 2020, pp. 22–23)

The challenge discussed here involves the application of the medicine wheel concept to modern knowledge. As has been noted, the reified Medicine Wheel has already been used to illustrate the concept of race, but inaccurately. It is common in anthropology to note that genetic interchange

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**Figure 3.** An application of the aboriginal concept of the medicine wheel to the practice of counseling psychology situating various therapies in quadrants defined by two axes: physical/mental and active/passive.
through population movements over the last hundreds of thousands of years has ensured that there are no human subspecies or races (Lewontin, 2006; Livingstone, 1993; Templeton, 1998). The notion that there is only one race (the human race) could be illustrated by a wheel without divisions. Discussion of the more traditional view that there are three races, Mongoloid, Caucasoid, and Negroid (Nei & Roychoudhury, 1974; Rushton & Ankney, 1993), could be illustrated by dividing the wheel into three with major subdivisions (e.g., most South Asians and Middle Eastern people are classified as Caucasoid in this system) noted within their respective places in the wheel. The more nuanced view that there are seven races (Edwards, 2003; Miele, 2002) could be similarly illustrated. Boundaries between racial categories could be made diffuse to indicate that racial demarcation is largely arbitrary with no one characteristic common to any race.

It has been customary to think of the medicine wheel as representing four directions, but in a three-dimensional world, there are six. The directions of “up” and “down” could be illustrated by adding a line, perpendicular to the two-dimensional directions, at the center of the wheel. The resultant “medicine sphere” could be used to illustrate numerous three-dimensional concepts in nature. The addition of movement to this sphere could be used to illustrate the fourth dimension of time and some of the effects of relativity. It is contended that linking such modern concepts with historical processes will aid in the internalization of both.

The ultimate objective of both counseling and education is the development of informed logical and critical thought allowing the individual to seek an objective stance relative to received tradition. Failure to ground such skills in indigenous cultures will make their transmission feel assimilationist and foreign. This article has explored the use of the concept of the medicine wheel as one bridge linking indigeneity with modernity. It is hoped that this exemplar will contribute to the development and use of other markers of aboriginality in education and counseling.

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Notes

1. In this article, the terms aboriginal and indigenous are used to reference people, things, and ideas that were commonly present prior to colonization or modernity. The terms are not capitalized when used as adjectives but are capitalized when used as part of a proper noun. The reason for this convention will become apparent in the subsequent discussion distinguishing between Aboriginal Spirituality and the more generic “aboriginal spiritualities.”

2. Much that was indigenous to the Americas, such as foods (potatoes, corn, bison, beans, and turkeys), pharmaceuticals (aspirin, coca, peyote, and quinine), industrial products (rubber, clothing (moccasins), transportation (canoes, toboggans), and habit-forming substances (tobacco, chewing gum), have been appropriated into the general culture.

3. Adair (2006) was talking specifically about a need for a psychology indigenous to Canada and not a psychology indigenous to people aboriginal to Canada.

4. Half a century ago, an indigenous Cree lawyer (Wuttunee, 1971) predicted policies of cultural reification pursued by Amerindian leaders of the day would result in impoverished communities dependent on increasing levels of government largess. That prediction has been realized (Helin, 2011; Richards & Scott, 2009).

5. This was actually the second European colonization of the North West with the first involving participation in the fur trade by its aboriginal inhabitants in a direct relationship with Britain. Canadian expansion involved the development of the North West as an agricultural and industrial hinterland (see Innis, 1930/1970; Ray, 1974; Robertson, 2015).

6. This was the second time the Canadian government attempted to end the Indian Residential Schools program. An earlier attempt to do so in 1907 was reversed subsequent to a successful lobby by western churches and Amerindian chiefs (Woods, 2012).

7. During the 1960s, the provincial authorities reluctantly took over responsibility for Indian child welfare, but they did not have sufficient foster or adoptive parents of indigenous ancestry to meet the child welfare need. The Federation of Saskatchewan Indian Nations (FSIN) viewed student placement at residential schools preferable to “adopting out” to non-aboriginal parents. A two-step process resulted in the transfer of authority for these schools to those Indian bands that contributed to the student population with Indian authorities first administering the physical plant. This development was not divorced from child welfare. As Director of the Health and Social Development Commission for FSIN, the author oversaw the development of a document titled “Indian Control of Indian Child Welfare” that paralleled the earlier document “Indian Control of Indian Education.” Indian Child and Family Service (ICFS) agencies were developed on each band replacing provincial child welfare services during the 1990s. While, officially, the last Indian Residential School in Canada closed in 1996, in 1999 the author completed psychological assessments of students at a facility offering a residential school program identical to its earlier mandate, but it was now called a “child welfare” facility. The ICFS agencies in northern Saskatchewan had given themselves each a quota of children to be sent to this institution that was still popularly known as the Prince Albert Residential School.
8. When provincial funding for school districts with fewer than 1,000 students was compared with federal per capita funding, the per capita advantage enjoyed by Amerindian educational authorities shrank to $2,547.

9. Working from a critical postmodernist perspective, Strong (2002) declared science to be a “white, male way of knowing” and that “truth” is something arrived at through the “discourse of knowledgeable people” (p. 3). In advocating the use of the reified Medicine Wheel, Dyck (1998) declared that “western science” was devoid of spirituality and creativity, and that people recognized as knowledgeable in presenting traditional teachings should be recognized as authoritarian. In contrast, science is a process of learning about an independent reality by reducing subjective bias by using hypothesis testing (Bhaskar, 1975; Bloom & Weisberg, 2007), or as Wilson (1999) said, “Science . . . is the organized, systematic enterprise that gathers knowledge about the world and condenses the knowledge into testable laws and principles” (p. 58). The idea that there is an objective reality that may be discerned through careful observation predates Europe’s “scientific revolution” by about 2 millennia and is cross cultural (Robertson, 2020). Therefore, the idea that people from so-called collectivist cultures cannot be objective is suspect.

10. This is from personal communication with Cree elder Ernest Tootoosis, Poundmaker Indian Reserve, 1971. This advice has since been repeated to me by several aboriginal elders and is aligned with the Iroquoian “Two Row Wampum” teaching that the “Redman” and the “Whiteman” will paddle in separate (but parallel) canoes and that if someone tries to have a foot in both canoes, “there will be a high wind and the boats will separate and the person that has his feet in each of the boats shall fall between the boats . . .” (Onkhenoweh as cited in Widdowson, 2013, p. 341). Other elders may have different understandings.

11. In this article, “Aboriginal Spirituality” (upper case) is a proper noun referencing a faith-based belief system (see Robertson, 2011) and Waldram (2014) have noted, Great Plains cultural practices have become increasingly identified with Aboriginal Spirituality across North America.

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