
Language and Culture as Protective Factors for At-Risk Communities

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ABSTRACT

A comprehensive review and analysis of the literature related to the role of Indigenous language and culture in maintaining and improving the health as well as reducing the risk factors for health problems of Indigenous people. Although much literature exists on various topics related to culture, language and health, the specific focus of this paper was studying the effects of the use of language and culture on the health of Indigenous people. Once all relevant literature was gathered, six linked themes emerged as protective factors against health issues; land and health, traditional medicine, spirituality, traditional foods, traditional activities and language. Findings included evidence that the use of Indigenous languages and cultures do have positive effects on the health and wellness of Indigenous people. However, the majority of the existing literature focuses on culture and its effects on health. Therefore, more studies are needed specifically on the potential health benefits of Indigenous language use. Other recommendations for ways forward include more targeted research on urban Indigenous populations, and making links between the loss of traditional land, contaminants in the food chain and the health of Indigenous people in Canada.

KEYWORDS

Indigenous, Aboriginal, culture, language, health, protective factors

INTRODUCTION

Traditional language and culture have an important and sacred role to play in Aboriginal communities all across Canada. Many communities assert that their language and culture is at the heart of what makes them unique and what has kept them alive in the face of more than 150 years of colonial rule. But what role does the use of traditional language and culture play in maintaining health and reducing risk factors for health crises in Aboriginal communities? It is the aim of this paper to answer this question. A comprehensive search was conducted for literature that discusses traditional language and culture as protective factors of health outcomes for Aboriginal people.

Studies have shown that although the health

of Aboriginal communities has improved over time, Aboriginal people are still not faring as well as the general population (Health Canada, 2001; Young, 2003). The effect of colonization on the health status of Aboriginal people continues to be profound (Bjerregaard & Curtis, 2002; Hurst & Nader, 2006). Given the overall health statistics of Aboriginal communities in Canada, it is clear that Aboriginal people are at a greater risk of developing serious health problems than the general population (Hurst & Nader, 2006; Minore & Katt, 2007). Whether it is the rate of diabetes, obesity, smoking, the effects of violence, cardiovascular disease, lower life expectancy, mental health issues, suicide rates, substance misuse, cancer rates, or disease



the core of wellness for Yup'ik people (Wolsko et al., 2006). One participant links traditional activities to mental health in a similar way to one of the participants in the previous study, "I go fishing and hunting, fishing in the ocean. It just makes your head clear, just the wind in your face, just sitting there" (p. 358). Another participant states, "You know, just walking out in the Tundra and looking at the surroundings. That's a form of stress release. To become part of nature is a form of stress release" (p. 359). The authors conclude that participants consistently emphasized that "the wilderness helps to both heal and sustain a sense of well-being" (p. 360).

Nancy Turner (2006), an ethnobotanist, shares many important insights in her report about traditional medicine, health and well-being of Indigenous people in Canada which includes explaining the deep relationship First Peoples have with "their home places and with the hundreds of species of plants and animals they live with and depend upon" (p. 18). She further states that caring for the land and species is seen as the responsibility of First Peoples and quotes Dawn Smith a Nuu-chah-nulth woman working at the University of Victoria, "if our environment is not healthy, how can we be healthy?" (Turner, 2006, p. 22).

2) Traditional medicine

Although the existence of traditional medicine goes back to time immemorial, little has been documented about the efficacy of it. This may be intentional on the part of traditional medicine people or a lack of connection between empirical research and how efficacy of traditional medicine can be measured. University of Saskatchewan professor James Waldram (2000) published a convincing article which aims to stimulate a further investigation into the judgment of the efficacy of traditional medicines. Waldram (2000) poses the distinction between curing and healing, the first of which emphasizes the removal of pathology, while the latter refers to a broader process of repairing multiple dimensions of oneself. He goes on to say, "[h]ealing...can be directed toward alleviating physical pain and suffering but often also concerns itself with repairing the emotional state, possibly even leaving the pathology itself unaltered" (p. 606). Also, he asserts that healing may be seen by Indigenous people as a lifelong process in which total recovery may never be achieved. His argument is an interesting and worthwhile distinction to consider when judging the efficacy of the use of traditional medicine as a contributor to Aboriginal people's health outcomes.

Mohawk scholar Dawn Martin Hill (2003) confirms that the literature on indigenous medicine makes direct links to land, language and culture. Several authors give

good evidence of the contribution that traditional medicine makes to the health of Aboriginal people, and in some cases, non-Aboriginal peoples (Waldram, Herring & Young, 2006; Wolsko et al., 2006; Ootoova et al., 2001; Turner, 2006). One recent example is the use of evergreen tree extracts and blueberry plant roots to control Type II diabetes (Floren, 2004). Some say that the efficacy of traditional medicine is as much about the person's belief in it as it is about the medicine itself, and that "true believers" are those most likely to be healed by traditional medicine, ceremonies and healers (Hill, 2008, p. 8). This illustrates the strong link between traditional medicine and spirituality. Although some might argue that personal testimonies are not "scientific evidence" the stories of successful use of traditional medicines are included as this is a necessary and legitimate source of data when investigating issues pertaining to indigenous traditions. For example, a participant in Wilson's (2003) study describes his belief that,

Harvesting medicine is medicine. I really think about the therapeutic aspect involved in knowing that you are out there being spiritually connected to Mother Earth and what she provides for you. You are picking plants and putting down tobacco, thanking her for what she has given but at the same time you are rejuvenating yourself. You are healing yourself within... (p. 90).

A Yup'ik participant from the focus groups done by Wolsko et al. (2006) relates his own witnessing of the effectiveness of traditional medicine, "When my uncle had TB, his mother had him drink Labrador tea. And when he went for a checkup they saw one of his lungs had healed" (p. 354).

An additional historic example is given in a Health Canada (1995) publication:

The early North American Indians were familiar with disease and knew how to prevent it. In fact, the Indians of the Quebec area came to the rescue of Jacques Cartier in the spring of 1535. The Indians advised him to feed the crew a tea made from the needles and bark of the eastern white cedar – one of the many foods they used which was a rich source of vitamin C. The men quickly regained their health and learned a valuable lesson (as cited in Milburn, 2004, p. 422).

3) Spirituality as a protective factor

Several important articles link spirituality as a protective factor in buffering against health risks in indigenous communities. One particularly key piece was a literature



“no” to these questions. However, the measure of health status based on participation in traditional activities was not significant. Wilson and Rosenberg believe that the measure for participation in traditional activities was too crude and calls for “a more nuanced analysis of cultural attachment” (p. 2028). However, other authors have found participation in traditional activities to be an effective protective factor against adverse health conditions such as depression and substance abuse (LaFromboise, Hoyt, Oliver, & Whitbeck, 2006; Whitbeck, McMorris, Hoyt, Stubben, & LaFromboise, 2002; Zimmerman, Ramirez-Valles, Washienko, Walter, & Dyer, 1998). Lastly, a study with Inuit women in the Arctic also concluded that “loss of traditional practices and language” affected their well-being and that of their community (Healey & Meadows, 2008, p. 31).

The concept of enculturation is defined as the degree to which an individual is maintaining one’s cultural identity by embedding oneself in traditional cultural norms and values such as traditional language, practices and spirituality (Whitbeck, Chen, Hoyt, & Adams, 2004; Wolsko et al., 2006; Zimmerman et al., 1998). Enculturation as a protective factor against alcohol misuse is gaining evidence. Herman-Stahl, Spencer and Duncan (2003) report that American Indians with low orientation towards cultural practices are 4.4 times more likely to misuse alcohol compared with their peers who are more culturally oriented. Based on a three-year study of nine reserve communities, four in the US and five in Canada, Torres Stone, Whitbeck, Chen, Johnson, and Olson (2006) conclude that, “enculturation has a significant positive effect, and it remains the only significant predictor of alcohol cessation...” (p. 242). Whitbeck et al. (2002) strengthen this view, stating that of those included in their study the, “protective influence of tradition was greatest for those who reported above average levels of traditional activities” (p. 411).

A participatory action research project based out of the University of Victoria states that healing circles, traditional foods, cultural ceremonies, drumming and dancing groups, and athletics are important aspects of culture that have a “powerful positive and transformative impact on the individuals who engage in these activities” (Riecken et al., 2006, p. 278). Carolyn Kenny (1998) quotes Douglas Cardinal delivering a keynote address at the Fourth Annual Conference of the Canadian Aboriginal Science and Technology held at UBC, “[A]rt was not a separate world in our language. It was the way we lived” (p. 77). She goes on to describe expression as it exists in its many forms in Aboriginal communities such as ceremonies, song, dance, mask, and storytelling (Kenny, 1998). Indigenous psychologist Rod McCormick (1995) found in a study of indigenous healing that expression was the most important factor rating it at 35 per cent in his list of themes of healing. These studies make a

strong case for the use of culture through art as a protective factor of risk in Aboriginal communities.

Perhaps the most poignant example to date, Ghislaine Goudreau completed her doctoral dissertation with a study of the health benefits of hand drumming with an Aboriginal women’s group. Goudreau (2006) states, “Our bodies contain internal rhythms such as heart rate and brainwaves” (p. 18). She relates the natural phenomena of entrainment, a theory that states that external rhythms such as drumbeats have the ability to realign our internal body rhythms. Through her study, Goudreau is able to claim that it appears the drum is a tool that can be used to calm our body rhythms if we are under stress as well as boost the immune system. Also it has been shown that participating in drumming circles increases the number of beneficial “killer cells” in the body that seek out and destroy specific disease organisms (Bittman, Berk, Felten, & Westengard, 2001). Drumming can also increase the number of Alpha brain waves (Maxfield, 1990; Neher, 1962) and according to Friedman (2000), “Alpha brainwaves are associated with states of relaxation and general well-being” (p. 44). Participants in Goudreau’s drum group consider drumming as a way of praying, a way to connect to the spirits, have the potential to awaken the spirit, and as a tool to release emotions. In a more recent publication of Goudreau’s (2008) thesis research, she details that participants in her study also stated pain-relieving effects and a relief from mental stress through their participation in hand-drumming circles.

Resilience through “cultural capital”

The sociological term cultural capital is used to describe the transmission of educational advantage from one generation to the next (Sullivan, 2007). This concept is largely based on a Euro-western worldview of individual nuclear family units as the main source of cultural transference. However, many authors have been criticized for their narrow interpretation of this concept (Sullivan, 2007). Pacini-Ketchabaw and Bernhard (2001) expand the term to include the home language of immigrant families as a source of cultural capital. They argue that language is one of the most important practices for cultural production and reproduction and further state that, “the vitality of a language indicates how well a group is maintaining itself in society” (p. 7).

Traditional language use as a protective factor

Most of the literature found on the topic of traditional language use and health focuses on the negative effect of indigenous-only language use in the home which has the effect of lowering rates of access to health care (Bird, Wiles, Okalik, Kilabuk, & Egeland, 2008; Hahm, Lahiff, Barreto, Shin, & Chen, 2008; Schumacher et al., 2008).



After many days of searching for any literature relating indigenous language use to increased health and wellness, or as a protective factor to risk of health crises, one article was finally located. It was published in 2007 by three researchers, two of whom (Michael Chandler and Chris Lalonde) are well-known and highly regarded for their research on factors which contribute to lower suicide rates in Canadian First Nations communities. The third author, Darcy Hallett, was a recent doctoral student of Michael Chandler. In their article they state, “as far as we have been able to determine, there are no previous studies that have attempted to demonstrate a specific link between indigenous language loss and community-level measures of health and wellbeing” (Hallett et al., 2007, p. 394). Based on the literature search conducted for this paper, this assessment appears to be accurate even in the fall of 2008. Despite this fact, the research they present is powerful and lends encouragement for further research in linking traditional language use specifically with health outcomes, and the potential it has to act as a protective factor against health risks.

Their recent work on language use as a protective factor stems from the seminal work of Chandler and Lalonde first published in 1998 where they studied five years of data on youth suicide rates in First Nations communities in British Columbia (Chandler & Lalonde, 1998). In the original work on youth suicide rates Chandler and Lalonde (1998) sought to offer some explanation for the wide variation of youth suicide rates in BC communities which ranged from no known suicides in over half of the 196 communities to 500-800 times the national average. They identified six measures of “cultural continuity” defined as 1) self-government, 2) engagement in land claims, 3) existence of education services, 4) tribal-controlled police and fire services, 5) on-reserve health services, and 6) existence of cultural facilities (Chandler & Lalonde, 1998). Communities which did not identify with any of the factors defined as indicators of cultural continuity (see above) were assigned a zero, while communities with all six factors present were assigned a six. Next, they compared youth suicide rates in each community against the existence of these six factors separately and then all-together as a score of 0 to 6. Those communities which had none of the factors present had a rate of suicide 137.5 per 100,000, a significant difference from those communities which had all six factors present and report zero suicides. Obviously a very convincing argument for the effect of these six factors; however, there has been criticism of their work. Some believe that the term ‘cultural continuity’ is misleading as none of the six factors may in fact be measuring the continuation of culture in the community but rather local administrative control of their nation (Hallett, 2005). In his doctoral work,

Hallett adds the measure of indigenous language knowledge to the mix of “cultural continuity” factors arguing that it holds the potential to be a more direct indicator of the role that cultural preservation plays (through language) in predicting the effects that cultural continuation has on creating healthier communities with fewer youth suicides.

In order to avoid the dangers of circularity, the indigenous language knowledge factor was analyzed separating from the other six pre-existing measures. The findings were significant; bands with higher levels of language knowledge (measured by a majority of its members having conversational-level abilities) had fewer suicides than those with lower levels (Hallett et al., 2007). In fact, the rates of suicide in the bands with high language knowledge levels were “well below the provincial averages for both Aboriginal and non-Aboriginal youth” (p. 396). What is further, when the language knowledge factor was added into the mix of the other six measures “the presence of the language factor made a drastic difference in suicide rates” (p. 397). In all cases but one, the suicide rate dropped to zero when the language factor was added (2007). Although Aboriginal language knowledge was found to have correlations with the other six measures, its independent contribution is significant. Hallett et al. state that overall, the results show that the use of indigenous languages is a “strong predictor of health and wellbeing in Canada’s Aboriginal communities” (p. 398).

One other study was located which had an indigenous language component in its measurement of links to health outcomes and protective factors. Interestingly though, because of the remote geographic location in the arctic, virtually all community members were fluent speakers of the local indigenous language (Greenlandic) and therefore, the protective influence could not be measured (Bjerregaard & Curtis, 2002).

In conclusion, the link between language and culture for indigenous communities cannot be overemphasized. Although the research findings for this phenomena are limited to one study, the implications are important and the potential vast. Language is also often recognized as one of the most tangible symbols of culture and group identity (Blair, Rice, Wood, & Janvier, 2002; Norris, 1998), and the main vehicle for cultural transference (Norris & Jantzen, 2002; Royal Commission on Aboriginal Peoples, 1996). Without the language of one’s ancestors, individual and collective identity gets weakened and it is likely that the culture would die out within a few generations. As conveyed by a group of indigenous language preservationists, no new songs could be written in our languages, ancient songs would no longer be understood, we would no longer be able to communicate with the spirit world in our language and no one would be



transference of traditional medicinal knowledge. It is a widely known fact that due to colonial impacts, those knowledge systems are not as firmly grounded as they once were. Many of the most widely recognized Elders and practitioners have died in recent years, and others have reached the age where they can no longer provide active services. Many Aboriginal communities have lost these practices altogether and now have to receive healing treatment and guidance from out-of-region practitioners, quite often from other nations. The language and cultural communication barrier between some Elders and the younger generations could be further weakening the knowledge base due to fewer people being trained as medicine people. In addition, there is a growing concern in many communities about what constitutes an Elder. Some Elders and practitioners, while not seen as charlatans, are not taken seriously because of their own unhealthy lifestyles and attitudes. These realities could lead to limited knowledge and superficial understanding due to lack of proper training which in turn leads back to questions related to authority, authenticity and exploitation. In addition, as pointed out in a paper by the National Aboriginal Health Organization (NAHO) (2008) with wider recognition of the benefits of traditional medicine comes greater risks of exploitation and appropriation of tribal knowledge. Therefore, protective mechanisms would also need to be put in place.

All of these factors illustrate a need for a nation-wide dialogue, or think-tank process, to assess the overall state of knowledge, retention and transference. This would allow for an effective nation wide strategy. Researchers will also need to be aware of cultural adaptations and the increasing incorporation of western biomedicines and practices with traditional healing, as these phenomena will likely increasingly give rise to continuous issues and debates.

3) Spirituality as a Protective Factor

New seekers and students of Aboriginal spirituality are bound to be confused by the various concepts and definitions of “traditional” spirituality. Because of the devastating colonial impacts and policies, many pre-contact indigenous beliefs and ceremonies survived only in small pockets. Much of the spiritual/cultural renaissance evident throughout North America today is actually a mixture of some pre-contact practices, combined with newer “pan-Indian” ceremonies popularized through decades of intertribal sharing and borrowing. It is not uncommon to see an Arapaho ceremony in a Métis community or to partake in a Lakota ceremony in Secwepemc territory. Some communities have also incorporated western religious influences into their spiritual practices. Many

concepts such as the Medicine Wheel, Sweat Lodge, and the Pipe ceremony, originating on the prairies, spread quickly throughout the continent and today are used extensively as teaching tools and healing methods in many communities, often with varying degrees of success. The Aboriginal addictions recovery field, in particular, has been very successful at incorporating traditional ceremonies and cultured teachings with western therapeutic approaches for several generations.

It is questionable whether the full spectrum of pre-contact belief systems can ever be fully and accurately revived but one factor that would be key in attempting such a process is Aboriginal languages. Languages are the window to the soul of a culture and much can be determined about traditional worldviews and value systems through careful analysis and study of words, concepts, phrases, omissions, and comparisons with western languages and views. Does an indigenous word for “sky,” when it’s translated literally really mean just the noun sky or does this word reveal something deeper, with more profound cosmological and mythical connections? Why do many indigenous languages have no words for time, resource, economics, or please and thank-you? The only way to answer these kinds of questions is to decipher original indigenous terms from newer post-contact words that have been incorporated since contact, and research their original and literal meanings. In doing so, the spiritual nature, along with core traditional beliefs are revealed. Core spirituality can never be fully understood without an understanding of the language. This process is not possible unless a language is relatively intact. Since many of the studies examined in this paper indicate that culture, and therefore language, leads to stronger identities and wellness, language revitalization must also be considered in Aboriginal health research and health promotion initiatives.

Another aspect to consider about spirituality is that it is often the entry point to cultural rediscovery. Aboriginal spirituality is highly relational and this is one of the reasons that it is considered to be healing by the people who practice it. The community that is created by shared spiritual practices, shared expression and support, is part of why spirituality is a protective factor against health risks.

One factor that is not highlighted in many of the studies, are descriptions of specific traditional spiritual teachings. A common belief and practice amongst Elders and traditional spiritual practitioners is the showing of respect to the spirit world by reinforcing the private and personal nature of sacred teachings. Often, sacred teachings are meant only for the individuals present within a ceremony who have made offerings to ask for advice,



languages. In addition to increasing funding levels and creating a national language organization, Canada needs to award official language status to indigenous languages and recognize that they are the founding languages of the nation. Society is now largely aware of the impacts that Residential Schools and other colonization tactics have had on Aboriginal languages and cultures, but there continues to be many modern-day social, economic, political, and even technological pressures to give up our languages. Statistics Canada bases its evaluation on the health of an Aboriginal language on the number of speakers, however, new research states that the number of speakers alone is a poor measurement of the health of a language and rather what is most important is the occurrence of intergenerational transmission and especially how many children are learning the language (Barrena et al., 2007; Norris & Jantzen, 2002). The implication here is that even the purported healthy languages of Cree, Anishnaabe and Inuktitut could be at risk if their younger populations are no longer using their ancestral language. All levels of government from First Nations to federal, need to start recognizing this as a crisis and take action on the work that has already been started. The Royal Commission on Aboriginal Peoples (1996) and the Task Force on Aboriginal Languages and Cultures (2005) outline many recommendations that if followed, could solve many problems and provide the means for real revitalization. Communities and their leaders need to place greater priority on revitalization and seek innovative tools and strategies such as immersion programs, bi-cultural schooling, language-nests, and cost-effective strategies that are intergenerational and highly participatory, bringing language learning out of the classrooms and into communities. Finally, in recognizing the critical state of Aboriginal languages, community language authorities and leaders need to show a willingness to standardize spoken and written language when necessary, and to update, fine-tune and modernize on an on-going basis. These efforts will make more efficient use of scarce resources, create working partnerships, allow our leaders to conduct business in our own languages and capture the attention of our youth. It is dialogue, assessment, coordination efforts, and information sharing that will enable these processes and the creation of a national language organization is essential to succeed.

4) Cultural protection strategies

With many Aboriginal leaders now pushing for economic development—as a primary way to alleviate poverty and unemployment and as a necessary step towards self-government—how can such needs be balanced within a cultural framework? If culture is a protective factor, how

can economic and resource development occur in a way that protects culture, language and health? Various levels of Aboriginal and non-Aboriginal governments need to explore and address these issues if they are serious about protecting culture and promoting health. Unfortunately, the western emphasis on unbridled economic growth and personal accumulation appears also to be quickly becoming the norm in many Aboriginal communities. There are, however, a number of communities that continue to explore more culturally congruent models such as holistic, community-based economic development, the creation of local economies, and environmentally sustainable approaches to resource management. Aboriginal Tourism British Columbia (www.aboriginalbc.com) lists a number of Aboriginal-owned cultural tourism operations that seek to educate and enhance local environments rather than simply exploit them. Those balanced, community-centered approaches to economic development need to be encouraged in Aboriginal communities over some of the economic development funding programs that are based purely on western capitalist frameworks or “business as usual” approaches. It is the community economic development models that could provide a balance between health, social and economic concerns. Governments need to start designing their funding programs accordingly and stop pressuring communities into processes that guarantee resource extraction with no examination of the cumulative industrial impacts within specific regions.

5) Intertribal dialogues and cultural strategies

Frontline community-level cultural practitioners, such as language teachers, Elders, ceremonial leaders, and traditional healers rarely get opportunities to dialogue, information share, evaluate, and develop cultural plans and strategies. With so many communities immersed in negotiations and facing financial struggles, these types of initiatives often fall by the wayside. With the current state of many languages, some community organizations or government bodies need to lead the way and generate this needed dialogue. Traditional medicines and healing, along with language, stand out as key areas that need national-level strategies. It would make sense that NAHO be one of the key organizations, at least initially, to begin the process of national dialogue on traditional medicines and healing. A brief discussion paper and questionnaire sent out to Aboriginal communities’ tribal councils and regional health and cultural organizations would determine the level of interest and provide the impetus for raising the funds required to embark on this major process. Based on feedback from organizations, the process may be a series of



regional gatherings or interviews and discussions with key practitioners. It might also become a national conference with the potential for it to become an annual event. A similar nation-wide dialogue on Aboriginal languages involving information-sharing, best practices, and strategy building is also needed. With the recent federal apology on impacts related to Residential Schools, it may be an opportune time for Aboriginal organizations to pressure federal and provincial governments to provide more substantive funding for Aboriginal language development. For national-level language initiatives, however, there is currently no organizational body to administer such processes. The Task Force on Aboriginal Languages and Cultures, consisting of nation-wide representation, have already made recommendations to the Department of Canadian Heritage for the establishment of a national Aboriginal language organization, and this recommendation appears to have had grassroots support. The report, *Towards A New Beginning*, offers valuable recommendations, including establishing an interim body made up of the Task Force members to create a framework for a national organization (Task Force on Aboriginal Languages and Cultures, 2005). The Assembly of First Nations and other Aboriginal lobby groups need to pressure the government to follow up on the language recommendations made in both the RCAP final report and the executive summary of the report by the Task Force. A national language organization is desperately needed and long overdue.

CLOSING REMARKS

The Public Health Agency of Canada now considers culture among the key determinants of health (National Aboriginal Health Organization, 2008; Public Health Agency of Canada, 2008). Mohawk scholar Taiaiake Alfred (2004) writes, "the core of our existence as nations is in our traditional cultures" (p. 95). Time and time again, Aboriginal people assert that language is the foundation for culture and without our languages, our cultures cannot survive (Battiste, 1998; Kirkness, 1998; Kirkness, 2002). The Assembly of First Nations (2007) conducted a longitudinal survey of First Nations health and concludes in chapter two of the report that language and culture are part of the overall well-being of both individuals and communities/nations. Clearly the time to take action is now - as individuals, and to also make this demand of our community leaders, as well as elected officials, in order to revive and hold high the indigenous cultures of this land, if for no other reason than for the tremendous effect and potential they hold for the renewed and continued wholistic health of Indigenous people.

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END NOTES

1. The term 'language families' is a linguistics term used to categorize languages that are linguistically related but generally unintelligible to one another (unlike dialects).
2. Adapted from (Maracle, 1999; Simpson, 2001; White, 1988; Wilson, 2003; University of Manitoba, 2008) and author's definition.
3. This information is based on the author's (Napoleon) 15 years of training under the guidance of Cree Elders and spiritual healers.
4. Author's note – Many Aboriginal leaders believe this number is inflated due to the inclusion of urban reserves and members temporarily away for school or employment.

