HEALTH INEQUALITIES AND SOCIAL DETERMINANTS OF ABORIGINAL PEOPLES’ HEALTH

Charlotte Reading, PhD
Fred Wien, PhD
TABLE OF CONTENTS

1. Introduction ......................................................... 6
2. Social Determinants of Aboriginal Health ....................... 7
   2.1 Socio-Political Context ..................................... 8
   2.2 A Holistic Perspective of Health .......................... 8
   2.3 Life Course: Child, Youth and Adult ..................... 8
   2.4 A Note on the Adequacy of Aboriginal Public Health Data .... 9
3. Proximal Determinants of Health .................................. 10
   3.1 Health Behaviours ........................................... 11
   3.2 Physical Environments ...................................... 12
   3.3 Employment and Income .................................... 13
   3.4 Education ................................................... 15
   3.5 Food Insecurity ............................................. 17
4. Intermediate Determinants of Health .............................. 18
   4.1 Health Care Systems ....................................... 18
   4.2 Educational Systems ....................................... 19
   4.3 Community Infrastructure, Resources and Capacities ....... 20
   4.4 Environmental Stewardship ................................ 20
   4.5 Cultural Continuity ........................................ 21
5. Distal Determinants of Health .................................... 22
   5.1 Colonialism .................................................. 22
   5.2 Racism and Social Exclusion ............................... 23
   5.3 Self-Determination ......................................... 24
6. Conclusion .................................................................. 25
   6.1 Putting It Together: The Integrated Life Course and Social Determinants Model of Aboriginal Health (ILCSDAH) .... 26
Appendices .................................................................... 27
References .................................................................... 31
LIST OF TABLES

Table 1: The Well-Being of Inuit, First Nations and Other Canadian Communities, 2001

Table 2: Self-Reported Smoking by First Nations Adults On-Reserve, by Aboriginal Adults
Off-Reserve, and by Non-Aboriginal Adults in Canada (%)

Table 3: Mothers Smoking During Pregnancy, First Nations On-Reserve
and Canada, 2002-03 (%)

Table 4: First Nations Adults On-Reserve Who Live in a Smoke-Free Home, 2002-03

Table 5: Mothers Smoking During Pregnancy, First Nations On-Reserve
and Canada, 2002-03 (%)

Table 6: Repairs Required for Dwellings Located On-Reserve (2002-03)
and for Canada (2003) (%)

Table 7: Percentage of Inuit, Métis, First Nations and Non-Aboriginal People Living
in Crowded Dwellings, Canada, 2006

Table 8: Selected Labour Force Characteristics for the Aboriginal Identity Population
in Canada, 15 Years and Over, 2001 Census (%)

Table 9: Selected Income Characteristics of the Aboriginal Identity Population in
Canada, 15 Years of Age and Over, 2001 Census

Table 10: Percentage of Those Experiencing a Major Depressive Episode in the Past
Year by Household Income and Off-Reserve Aboriginal Status, Canada, 2000/01

Table 11: Highest Level of Schooling Attained by the Aboriginal Identity Population
in Canada, 15 Years Of Age and Over, 2001 Census

Table 12: Prevalence of Food Insecurity, by Level and Selected Characteristics,
Household Population, Canada Excluding Territories, 1998-99 (%)

Table 13: Health Care Utilization and Access, Household Population Aged 15 or Older,
by Off-Reserve Aboriginal Status, Canada and the Northern Territories, 2000-01 (%)

Table 14: Barriers to Accessing Health Services, First Nations Adults Living On-Reserve, 2002-03

Table 15: Connection to the Land
Table 16: Percentage of First Nations People Who Have Knowledge of an Aboriginal Language, by Age Groups, Canada 2001 and 2006 ........................................... 20
Table 17: Percentage of Inuit Population Who Reported Inuktitut as Mother Tongue and Home Language, and Knowledge of Inuktitut, Canada and Regions, 1996 and 2006 ........................................ 21
Table 18: Percentage of the Métis Population with Knowledge of an Aboriginal Language, by Age Groups, Canada, 2006 ........................................ 21
Table 19: Percentage of First Nations Adults Living On-Reserve Who Consider Traditional Spirituality and Religion Important in Their Lives ........................................ 21
Table 20: The Impact of Residential Schools on First Nations Adults Living On-Reserve, 2002-03 ........................................ 23
Table 21: Instances of Racism Experienced by First Nations Adults On-Reserve and Perceived Impact on Level of Self-Esteem, 2002-03 ........................................ 24
Table 22: Self-Determination Indicators by Feelings of Depression and Sadness for First Nations Adults Living On-Reserve, 2002-03 (%) ........................................ 24

Appendices

Table 23: Most Frequent Long-Term Health Related Conditions Among First Nations Children Living On-Reserve, 2002-03 ........................................ 27
Table 24: Most Frequent Long-Term Health Related Conditions Among First Nations Youth Living On-Reserve, 2002-03 ........................................ 28
Table 25: Frequently-Occurring Long-Term Health Conditions of First Nations Adults Living On-Reserve, and Other Adults in Canada (%) ........................................ 28
Table 26: Body Mass Index, Household Population 15 years of Age and Over by Off-Reserve Aboriginal Status, Canada, 2000-01 (%) ........................................ 28
Table 27: Adults 15 Years of Age and Over Who Have Suffered a Major Depressive Episode in the Last 12 Months by Off-Reserve Aboriginal Status (%) ........................................ 29
Table 28: Percentage of First Nations Youth Living On-Reserve Who Report Feeling Sad, Blue or Depressed for Two Weeks or More in a Row ........................................ 29
Table 29: Importance of Keeping, Learning or Relearning an Aboriginal Language, by Age Group, Métis Identity Non-Reserve Population 15 years of Age and Over, 2001 (%) ........................................ 29
Table 30: Who Helps Aboriginal Children Learn an Aboriginal Language, Canada, 2001 (%) ........................................ 30
Table 31: Residential School Attendance for Aboriginal Adults Living Off-Reserve, and for First Nations Adults Living On-Reserve ........................................ 30
1. INTRODUCTION

This paper uses available data to describe health inequalities experienced by diverse Aboriginal1 peoples in Canada. The data are organized around social determinants of health across the life course and provide evidence that not only demonstrates important health disparities within Aboriginal groups and compared to non-Aboriginal people, but also links social determinants, at proximal, intermediate and distal levels, to health inequities. The Integrated Life Course and Social Determinants Model of Aboriginal Health is introduced as a promising conceptual framework for understanding the relationships between social determinants and various health dimensions, as well as examining potential trajectories of health across the life course.

Data from diverse and often limited literature is provided to support claims made by the authors of this paper and others about health disparities among Aboriginal peoples and the degree to which inequalities in the social determinants of health act as barriers to addressing health disparities. Additional tables have been included in the appendices to further support data and discussion presented in the text.

1 The term ‘Aboriginal’ refers to individuals who identify with at least one Aboriginal group, i.e. First Nations (North American Indian), Métis or Inuit, and/or those who report being a Treaty Indian or a Registered Indian as defined by the Indian Act of Canada and/or who are members of an Indian Band or First Nations (Statistics Canada, 2008, [138]).
2. SOCIAL DETERMINANTS OF ABORIGINAL HEALTH

Beyond a small number of seminal reports, little is known about the distinct influence of social determinants of health in the lives of Aboriginal peoples. Yet, it is clear that the physical, emotional, mental and spiritual dimensions of health among Aboriginal children, youth and adults are distinctly, as well as differentially, influenced by a broad range of social determinants (1-12). These include circumstances and environments as well as structures, systems and institutions that influence the development and maintenance of health along a continuum from excellent to poor. For the purposes of this report, the social determinants of health have been categorized as distal (e.g. historic, political, social and economic contexts), intermediate (e.g. community infrastructure, resources, systems and capacities), and proximal (e.g. health behaviours, physical and social environment) (13-16).

Social determinants influence a wide range of health vulnerabilities and capacities, health behaviours and health management. Individuals, communities and nations that experience inequalities in the social determinants of health not only carry an additional burden of health problems, but they are often restricted from access to resources that might ameliorate problems. Not only do social determinants influence diverse dimensions of health, but they also create health issues that often lead to circumstances and environments that, in turn, represent subsequent determinants of health. For instance, living in conditions of low income have been linked to increased illness and disability, which in turn represents a social determinant, which is linked to diminished opportunities to engage in gainful employment, thereby aggravating poverty (17-20).
Researchers and those responsible for the development of health policies have reached tentative consensus about an extensive list of social determinants that influence the health of individuals, communities and populations. What remains less well articulated are the mechanisms and contexts through which social determinants influence health. Similarly, aside from health care systems, we know relatively little about the role social determinants of health play in addressing ill health. Researchers are just beginning to map out the complex interconnections that exist and are demonstrating those linkages empirically (21).

2.1 Socio-Political Context

The impact of social determinants is manifest differently among the distinct Aboriginal groups in Canada, which are themselves distinct from other Indigenous groups globally. Among Aboriginal peoples, there are a number of similar historical and contemporary social determinants that have shaped the health and well-being of individuals, families, communities and nations (1-3). Historically, the ancestors of all three Aboriginal groups underwent colonization and the imposition of colonial institutions, systems, as well as lifestyle disruption. However, distinctions in the origin, form and impact of those social determinants, as well as the distinct peoples involved, must also be considered if health interventions are to be successful. For example, while the mechanisms and impact of colonization as well as historic and neo-colonialism are similar among all Aboriginal groups, particular policies such as the *Indian Act* have been patently deleterious to the lives and health of First Nations people. First Nations are unique in their relationship with the Canadian government with respect to provisions made under the *Indian Act of 1876*, which included health care. The contemporary outcome of the colonial process can be seen in political, social and economic domains (4-5).

For First Nations, Inuit and, to a lesser extent, Métis peoples, the colonial process has resulted in diminished self-determination and a lack of influence in policies that directly relate to Aboriginal individuals and communities (22). All Aboriginal groups have suffered losses of land, language and socio-cultural resources. Racism, discrimination and social exclusion also represent shared experiences among Aboriginal groups, with Métis peoples often experiencing exclusion from First Nations and Inuit groups as well (1-5).

Aboriginal peoples differentially experience economic disadvantage; Métis tend to experience higher levels of socioeconomic status than First Nations, who fair generally better than Inuit peoples (23). In general, remote communities, whether they are Métis, Inuit, or First Nations, suffer from a lack of economic development that might help to ameliorate health problems related to socioeconomic status (24).

2.2 A Holistic Perspective of Health

Indigenous ideologies embrace a holistic concept of health that reflects physical, spiritual, emotional and mental dimensions. However, it is the interrelatedness of these dimensions that is perhaps most noteworthy. It has become widely accepted in mainstream health literature and, to some extent practice, that a ‘silo’ approach to the prevention and treatment of ill-health fails to address the complexity of most health issues. This is particularly true for Aboriginal peoples, who have historically been collectivist in their social institutions and processes, specifically the ways in which health is perceived and addressed (25-27).

2.3 Life Course – Child, Youth and Adult

Health is not only experienced across physical, spiritual, emotional and mental dimensions, but is also experienced over the life course. A life-long trajectory of health begins during gestation, with the health profile and social determinants affecting the health resources for pregnant women (28). Early child development follows, in which the circumstances of the physical and emotional environment impact not only children’s current health, but sets the groundwork for future vulnerabilities and resiliencies (29-34).

In as much as social determinants impact children, youth and adults in similar ways, they tend to manifest as different health issues in each life stage. Initially, the early years can be conceptualized as two, overlapping, phases of early and late childhood. The outcome of early and late child development is first evident in adolescence, when social determinants continue to impact the distinct elements of adolescent well-being. Like childhood, adulthood can be viewed as two, integrated, phases which distinguish elderhood as a life phase that has specific vulnerabilities and health potentials (35-36).

Social determinants not only have differential impact on health across the life course, but the ensuing health issues may themselves create conditions (i.e., determinants) that subsequently influence health. For instance, poverty is associated with increased substance use, which can lead to stressful family environments and diminished social support, which are linked to, among other things, depression (37-38).
Physical environments such as crowded housing conditions have been associated with stress in all three age groups (23). However, for adults, these conditions can also indirectly contribute to substance overuse and parenting difficulties, which may result in poor school performance among youth and children. This particular interaction of life-stage health begins with a social determinant, which contributes to the creation of an environment for youth and child development. If a less-than-optimal environment is present, children and youth will not only face obstacles to optimal physical, emotional, intellectual, and spiritual development, but the difficulties they encounter will also likely create additional stressors for families and communities. In this case, youth substance over-use and violence as well as behaviour problems in children have been linked to over-crowded living conditions (39).

2.4 A Note on the Adequacy of Aboriginal Public Health Data

Compared to the situation a few decades ago, there has been a significant increase in the quantity and quality of Aboriginal health data. The Aboriginal Peoples Survey (APS) (40), for example, which was introduced by Statistics Canada in 1991, marked a significant step forward even though the number of health-related questions is limited in this general-purpose survey. Additionally, the First Nations Regional Longitudinal Health Survey (FNRLHS) has provided a wealth of new information for the on-reserve population beginning in 1997 (41-43).

As far as health survey information is concerned (we will turn to other types of data below), there are still important gaps and challenges which limit what we can do in this paper. Available data are:

- Fragmented in the sense that individual surveys do not comprehensively include all Aboriginal groups. Over time, the APS, for example, has become less inclusive. It is still quite valuable for the off-reserve population, but for the most part is not carried out on-reserve. The FNRLHS is quite good for the on-reserve population but does not include First Nations off-reserve, Inuit or Métis people.
- Often the pieces do not add together in that different authorities are responsible for different surveys and methodologies differ. Even if a concept is measured in more than one survey, questions may not be worded in the same way, and thus the results are not comparable.
- Important gaps in the survey information base remain. Statistics Canada routinely completes surveys on a whole host of issues, dealing with subjects like activity limitations, time use, adaptation to new technologies, the aging population and transition to retirement, public safety and the victims of crime. However, First Nations persons living on-reserve are almost always excluded from the surveys, and the coverage of Aboriginal people living off-reserve (including Métis and Inuit) may be too sparse for detailed analysis (especially at geographic units below the national or provincial/territorial level).
- Other kinds of public health data are also problematic. Smylie and Anderson (2006) have worked with vital registration, health services, surveillance, and infant/child health data. They identify the following issues, among others:
  - The lack of accurate and complete identification of Aboriginal persons and, indeed, the fact that Aboriginal affiliation is often not asked at all.
  - The fragmentation of data resulting from the fact that health systems differ according to Aboriginal ethnicity, geography (for example, on and off-reserve), and jurisdiction (for example, provincial and federal).
  - The use of substandard data sources and methodologies. For example, infant mortality rates for First Nations persons living on-reserve are based on vital registration data of uneven quality from four Western provinces combined with data collected from nursing stations in other parts of the country. The resulting figures are deemed to be an underestimate, a statement that is based on comparisons to other data available for certain regions but collected according to a higher standard.
  - The failure to include culturally relevant health measures reflecting Indigenous perspectives.

These data limitations impose at least two limitations for this paper. First, they mean that we are seldom able to report comparable data for all the different Aboriginal groups on the same dimension. While this is possible using the census, which also permits comparison with the rest of the Canadian population, it is usually not possible with other data sources. Secondly, it means that we must avoid reporting some kinds of data, such as infant mortality rates or adult death rates, that would normally be included in this kind of report as outcome measures, but which, in the case of Aboriginal people, may be unreliable and lack external validity (44).

In short, while considerable progress on Aboriginal public health data has been made, what we have remains far short of the standard of data available for other Canadians. On the assumption that a high quality health information base is an important cornerstone for health research and for evidence-based public policy, this is an issue that should be of concern to the Public Health Agency of Canada.
According to the United Nations Human Development Index, which measures health through longevity, educational achievement, and adult literacy, First Nations people in Canada rank 68th in the world (45). Likewise, the Community Well-Being (CWB) scale for First Nations, developed by Indian and Northern Affairs Canada, which measures education, labour force participation, income and housing, indicates that Aboriginal communities represent 65 of the 100 unhealthiest Canadian communities (46).

According to the model presented in this report, proximal determinants of health include conditions that have a direct impact on physical, emotional, mental or spiritual health. For example, in conditions of overcrowding, which are most profoundly experienced among the Inuit people, children often have little room to study or play, while adults have no private space to relax (47-48). In many cases, these conditions act as a stressor, which increases the likelihood of behavioural and learning difficulties in children and adolescents, as well as substance abuse and other social problems among adults (23, 49). Similarly, family violence, which is experienced at one time or another by almost three-quarters of on-reserve First Nations women (50-51), directly impacts all family dimensions of health, especially women’s health, with a resultant negative impact on the physical and emotional health of children.

The mechanisms through which proximal determinants influence health are not well articulated in the literature. However, some researchers have made tentative suggestions, which seem to be supported by the epidemiology of Aboriginal health. Beyond creating minimal capacity to meet basic survival needs (i.e. poverty),
unfavourable proximal determinants can contribute to stressors that in turn can generate or exacerbate health problems (52). Moreover, individuals acquire personal skills and resources for coping with health challenges and developing health behaviours throughout life. These skills and resources help people deal with challenges as well as cope with illness and injury (53-54). When proximal determinants of health do not support control over the basic material resources of life, choice, which is key to health, is denied (17, 19).

Table 1: The Wellbeing of Inuit, First Nations and Other Canadian Communities, 2001

<table>
<thead>
<tr>
<th>Community Type</th>
<th>Avg CWB Score 1991</th>
<th>Avg CWB Score 2001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inuit</td>
<td>0.63</td>
<td>0.69</td>
</tr>
<tr>
<td>First Nations</td>
<td>0.58</td>
<td>0.66</td>
</tr>
<tr>
<td>Other Canadian Communities</td>
<td>0.77</td>
<td>0.81</td>
</tr>
</tbody>
</table>


Table 2: Self-Reported Smoking by First Nations Adults On-Reserve, by Aboriginal Adults Off-Reserve and by Non-Aboriginal Adults in Canada (%)

<table>
<thead>
<tr>
<th>Smoking Status</th>
<th>First Nations On-Reserve</th>
<th>Aboriginal Off-Reserve</th>
<th>Non-Aboriginal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daily</td>
<td>46.0</td>
<td>41.5</td>
<td>22.1</td>
</tr>
<tr>
<td>Occasional</td>
<td>12.8</td>
<td>9.9</td>
<td>4.4</td>
</tr>
</tbody>
</table>

Sources: For First Nations adults on-reserve, the data source is the Regional Health Survey, 2002-03, as reported in Health Canada, 2006 (135), p. 29. For Aboriginal off-reserve and non-Aboriginal adults, the data source is the Canadian Community Health Survey, 2000/01, as reported in Tjepkema, 2002 (136), p. 8.

Table 3: Mothers Smoking During Pregnancy, First Nations On-Reserve and Canada, 2002-03 (%)

<table>
<thead>
<tr>
<th>Smoking Status</th>
<th>First Nations Mothers On-Reserve</th>
<th>All Canadian Mothers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smoked During Pregnancy</td>
<td>36.6</td>
<td>19.4</td>
</tr>
<tr>
<td>Smoked &gt;10 cigarettes per day during pregnancy</td>
<td>15.0</td>
<td>5.3</td>
</tr>
<tr>
<td>Smoked in third trimester</td>
<td>32.2</td>
<td>17.2</td>
</tr>
</tbody>
</table>


Health behaviours represent a well-recognized proximal determinant of health. Among Aboriginal peoples, the most relevant health behaviours include the over or misuse of alcohol, which is related to increases in all-case mortalities (41, 55), and excessive smoking, the health effects of which are clearly expressed in high rates of heart disease and increasing rates of lung cancer (41, 56-58). Poor prenatal care as well as drinking and smoking during pregnancy have also been linked to poor physical, emotional, and intellectual development among Aboriginal children (59-61). Finally, lack of exercise and poor diet has been associated with the epidemic of Type II Diabetes among First Nations adults and increasing rates among First Nations youth (62-63). These health behaviours must be considered within the socio-political context of Aboriginal peoples’ lives lest an individualistic perspective predominate the analysis.

Aboriginal adults are more than twice as likely to smoke cigarettes as other adults in Canada (Table 2). We know from other data as well that the rate of smoking has declined substantially in the non-Aboriginal population but has remained relatively stable among Aboriginal adults. The implications of such high levels of smoking for lung and other kinds of cancers, and for breathing problems, are serious.

First Nations mothers living on-reserve are almost twice as likely to smoke during pregnancy compared to Canadian mothers generally, and this pattern continues for Canadian communities. However, analysis of the CWB Score over time shows that the score improves for all three types of communities. It also shows a small degree of convergence over the course of the 1991-2001 period.

3.1 Health Behaviours

Some research suggests that health outcomes are influenced by the types of communities or neighbourhoods in which one lives. Indian and Northern Affairs Canada has created a Community Well-Being index which results in a composite score for a community based on the characteristics of its residents – specifically their income, education, housing quantity and quality, and labour force characteristics (participation and employment rates). Table 1 reveals that the Community Well-Being Score for First Nations and Inuit communities is well below that of other

---

2 The Aboriginal Peoples Survey defines adults as those 15 years of age and over. In the Regional Health Survey, adults are considered to be 18 years of age and over.

---
smoking more than 10 cigarettes per day and smoking in the 3rd trimester of pregnancy (Table 3).

More than half of First Nations adults living on-reserve are subjected to tobacco smoke in their home from one or more smokers (Table 4).

### 3.2 Physical Environments

Physical environments play a primary role in determining the health of populations. Among Aboriginal peoples, physical environments that are largely detrimental to health have been imposed through historic dispossession of traditional territories as well as current reserve or settlement structures. The most pervasive outcomes of these structures include substantial housing shortages and poor quality of existing homes (64-65). Lack of affordable housing has created situations of overcrowding in First Nations and Inuit communities, as well as homelessness for Aboriginal people living in urban areas. Many on-reserve homes are overcrowded and lack appropriate ventilation, resulting in excessive mold, which has been implicated in several health problems including severe asthma and allergies among Aboriginal children (66-69).

Aboriginal peoples living in remote rural and reserve communities face considerable food insecurity related to challenges acquiring both market and traditional foods (70-71). The cost of transporting market foods to remote communities means that healthy, nutritious food is not affordable to most families. Poverty not only limits the extent to which individuals and families can access market foods but also makes the costs associated with contemporary hunting out of reach for many (72-77). Finally, poor sanitation and waste management, unsafe water supplies, and lack of community resources represent physical conditions that jeopardize the health of Aboriginal peoples (78).

The quality of the housing stock in a community has been shown to be an important determinant of health. The poor condition of dwellings located on-reserve is demonstrated in Table 5, which shows that a third of the housing stock is in need of major repairs, compared to only 8% of Canadian dwellings. Other data from the First Nations Regional Longitudinal Health Survey reveal that almost half of the respondents indicated there was mold or mildew in the home in the 12 months preceding the survey (41).

With the exception of the Métis, Aboriginal people in Canada are much more likely to live in crowded housing conditions than are non-Aboriginal Canadians (Table 6). This is especially the case for the Inuit who are 10 times more likely to live in crowded conditions. However, there has been some improvement over the 1996-2006 decade. In 1996, 36% of Inuit, 7% of Métis and 20% of First Nations lived in crowded housing conditions. Crowding has been linked to a number of poor health outcomes, including increased risk of transmitting infectious diseases, severe lower respiratory tract infections, and higher rates of injuries, mental health problems, and family tensions (23, 47-48).

---

1. Dwellings in need of major repairs are those that, in the judgment of the respondent, require major repairs to such things as defective plumbing or electrical wiring, and/or structural repairs to walls, floors or ceilings, etc.

2. ‘Crowding’ is defined as more than one person per room. Not counted as rooms are bathrooms, halls, vestibules, and rooms used solely for business purposes.
The quality of housing is also a matter of concern and the situation is deteriorating over time for the Inuit and First Nations. In 1996, the percentage of Inuit living in housing in need of major repairs stood at 19% and First Nations at 26%. For the Métis, there was a slight improvement over this decade.

### 3.3 Employment and Income

The literature is clear and convincing about the role of various dimensions of socioeconomic status (SES) in determining health. Through colonization, colonialism, systemic racism and discrimination, Aboriginal peoples have been denied access to the resources and conditions necessary to maximize SES (2). This disadvantage is currently manifested in high rates of unemployment, scarce economic opportunities, poor housing, low literacy and educational attainment, as well as meager community resources (40, 41, 47).

With respect to poverty specifically, the most widely discussed impact of poverty is a lack of access to material resources, such as nutrient dense food, which leads to high rates of obesity and diabetes, and consequential poor cardiovascular and renal health (79-84). Poverty is also linked to social exclusion, low social cohesion and increased crime (85). In the case of Aboriginal peoples, social exclusion, in turn, prevents individuals from pursuing education and training (86). More profound, perhaps, is the lack of control poverty creates, with resulting anxiety, insecurity, low self-esteem and feelings of hopelessness (87-91). This and other forms of psychosocial stress have been linked to violence, addictions, poor parenting, and lack of social support. The accumulation of these psychosocial stressors often leads to poor mental health and increased vulnerability to infection, as well as diabetes, high blood pressure, and depression (92). In addition, suicide has been linked to poor mental health and substance abuse, which are in turn linked to social exclusion and poverty (93-95).

Table 7 shows significant inequalities in the participation of Aboriginal people in the economy. Aboriginal people are less likely than other Canadians to participate in the labour force (participation rate5), and are even less likely to be employed (employment rate6). If they are in the labour force,7 their level of unemployment

<table>
<thead>
<tr>
<th>Labour Force Characteristic</th>
<th>Inuit</th>
<th>Métis</th>
<th>North American Indian</th>
<th>Total Aboriginal</th>
<th>Total Non-Aboriginal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Participation Rate</td>
<td>62.5</td>
<td>69.1</td>
<td>57.3</td>
<td>61.4</td>
<td>66.5</td>
</tr>
<tr>
<td>Employment Rate</td>
<td>49.7</td>
<td>44.6</td>
<td>59.4</td>
<td>48.6</td>
<td>61.8</td>
</tr>
<tr>
<td>Unemployment Rate</td>
<td>19.1</td>
<td>22.2</td>
<td>14.0</td>
<td>22.2</td>
<td>7.1</td>
</tr>
</tbody>
</table>

Source: Statistics Canada, 2001 (139).

Note: Data does not include persons who gave more than one response with respect to Aboriginal identity.

---

5 Participation rate refers to those in the labour force expressed as a percentage of the total population 15 years and over.
6 Employment rate refers to those who are employed as a percentage of the population 15 years and over.
7 ‘Labour force’ refers to those who are employed or unemployed.
(unemployment rate\(^8\)) is between two and three times higher than it is for other Canadians. Among Aboriginal people, North American Indians are the most disadvantaged.

We have established that Aboriginal people in Canada are less likely to be working. When they do find jobs, their annual earnings from employment are considerably lower than they are for other Canadians. This applies when they work full-time, full-year and also when they work part-time or for a part of the year. Even sharper inequalities are evident when we look at total income received in the year. Among North American Indians, for example, the median total income was $12,263 in the year 2000, compared to almost twice that ($22,431) for other Canadians (Table 8). Because of high unemployment and low earnings, it is not surprising to see that income from government transfers, such as social assistance, is a much larger component of total income for Aboriginal persons than it is for other Canadians.

We have already suggested that income level has a bearing on health outcomes, and Table 9 confirms that the percentage of adults, both Aboriginal and non-Aboriginal, reporting that their health is only fair or poor declines substantially as one moves from lower to higher income levels. What the table also shows is that the gap in self-reported health between Aboriginal and non-Aboriginal people is maintained at a statistically significant level (i.e. p = .05) even when comparing individuals with the same or similar household income.

Of course there are many other determinants of health, such as education level, geographic location, employment status and so forth. Can the gap in health outcomes be explained if a large number of the known determinants were included in a multivariate analysis? The article from which the above table is drawn undertakes this kind of analysis and concludes that, depending on the health outcome introduced as the dependent variable, the gap is reduced but it does not go away (136). This unexplained residual, as it is called, suggests there must be ‘something else’ out there that contributes to unequal health outcomes for Aboriginal people, something that has not yet been identified or satisfactorily measured. This lends some indirect support for the notion that the effects of historical trauma (e.g. lack of self-determination) may indeed be a determinant of health for Aboriginal populations.

Often differences in health status observed between Aboriginal and non-Aboriginal populations can be explained by the fact that the two populations differ in other health determining respects such as income and education. However, Table 10 – while it only controls for one variable – suggests that there is more going on. When

---

\(^8\) Unemployment rate refers to those who are unemployed expressed as a percentage of the labour force.
Aboriginal and non-Aboriginal adults are compared at the same level of income, differences in the likelihood of experiencing a major depressive episode continue to be observed. It is only in the high income category that the difference is reduced to statistical insignificance (p= .05).

3.4 Education

Education, which is a component of SES, determines health through a number of avenues. By way of example, inadequate education often includes poor literacy, which affects one’s ability to acquire information about proper nutrition or healthy food preparation. Insufficient education also diminishes the skills one might have to offer the labour market, often resulting in low paying jobs (96-98). The ensuing poverty and social exclusion, both disproportionately experienced by Aboriginal peoples, increases the risk of family instability, which often manifests in divorce and single parenthood (99).

There is clear evidence of inequities in the distribution of resources and opportunities to Aboriginal peoples in Canada. An example can be found in the area of education. Despite the growing number of Aboriginal peoples, particularly women, who are attaining post-secondary degrees, inadequate educational opportunities for most adults manifest as a lack of capacity to promote education among their children (100). Approximately 22% of Aboriginal youth drop out, or are ‘pushed out’, of high schools; resulting in diminished literacy and employment, as well as increased poverty in future generations (101).

Table 10: Percentage of Those Experiencing a Major Depressive Episode in the Past Year by Household Income and Off-Reserve Aboriginal Status, Canada, 2000-01

<table>
<thead>
<tr>
<th>Household Income Level</th>
<th>Aboriginal</th>
<th>Non-Aboriginal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low</td>
<td>21*</td>
<td>13</td>
</tr>
<tr>
<td>Middle</td>
<td>13*</td>
<td>9</td>
</tr>
<tr>
<td>High</td>
<td>7</td>
<td>6</td>
</tr>
</tbody>
</table>

Source: Data is from the Canadian Community Health Survey, 2000/01, as reported in Tjepkema, 2002 (136), p. 7.
Notes: 1) Two health regions have been excluded from the analysis. 2) Household income is derived by calculating total annual income and taking into account the number of persons in the household. 3) * indicates significantly different from the non-Aboriginal estimate. 4) Percentages have been age standardized to the Canadian population.

---

9 In the Canadian Community Health Survey, a major depressive episode is diagnosed on the basis of a series of questions that measure a cluster of symptoms for depressive disorders.
Table 11: Highest Level of Schooling Attained by the Aboriginal Identity Population in Canada, 15 Years of Age and Over, 2001 Census (%)

<table>
<thead>
<tr>
<th>Highest Level of Schooling Attained</th>
<th>Inuit</th>
<th>Métis</th>
<th>North American Indian</th>
<th>Total Aboriginal</th>
<th>Total Non-Aboriginal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than high school graduation certificate</td>
<td>57.7</td>
<td>42.2</td>
<td>50.6</td>
<td>48.0</td>
<td>30.1</td>
</tr>
<tr>
<td>High school graduation certificate only</td>
<td>6.2</td>
<td>11.9</td>
<td>9.0</td>
<td>9.9</td>
<td>14.2</td>
</tr>
<tr>
<td>Some postsecondary education</td>
<td>12.8</td>
<td>12.4</td>
<td>12.7</td>
<td>12.6</td>
<td>10.8</td>
</tr>
<tr>
<td>Trades certificate or diploma</td>
<td>11.1</td>
<td>13.6</td>
<td>11.5</td>
<td>12.1</td>
<td>10.8</td>
</tr>
<tr>
<td>College certificate or diploma</td>
<td>9.5</td>
<td>13.4</td>
<td>10.7</td>
<td>11.6</td>
<td>15.1</td>
</tr>
<tr>
<td>University certificate of diploma (&lt; bachelor’s)</td>
<td>0.8</td>
<td>1.4</td>
<td>1.4</td>
<td>1.4</td>
<td>2.6</td>
</tr>
<tr>
<td>Bachelor’s degree</td>
<td>1.6</td>
<td>4.0</td>
<td>3.2</td>
<td>3.4</td>
<td>10.8</td>
</tr>
<tr>
<td>University certificate above Bachelor’s degree</td>
<td>0.1</td>
<td>0.5</td>
<td>0.4</td>
<td>0.4</td>
<td>1.6</td>
</tr>
<tr>
<td>Master’s degree</td>
<td>0.2</td>
<td>0.7</td>
<td>0.5</td>
<td>0.5</td>
<td>2.8</td>
</tr>
<tr>
<td>Earned doctorate</td>
<td>0.04</td>
<td>0.1</td>
<td>0.1</td>
<td>0.1</td>
<td>0.6</td>
</tr>
<tr>
<td>Total</td>
<td>100.0</td>
<td>100.1</td>
<td>100.2</td>
<td>100.0</td>
<td>100.1</td>
</tr>
</tbody>
</table>

Source: Statistics Canada, 2001 (142).

Table 11 clearly shows how Aboriginal people are disadvantaged when it comes to the level of education attained. The percentage of Aboriginal persons 15 years of age and over who have completed less than a high school education is in the order of 50%, compared to 30% for other Canadians. Leaving school with less than high school education has been shown to significantly reduce the prospects of employment, income and other outcomes later in life, including health outcomes (16, 96).

The other side of the coin is the very limited representation of Aboriginal people at the higher end of the educational continuum, especially with respect to postsecondary certificates, diplomas and degrees. Within the Aboriginal population, the Inuit are the most disadvantaged in terms of educational achievement.
3.5 Food Insecurity\(^{10}\)

Poverty has clear outcomes on health because, in part, it determines what kinds of foods people have available to them and what they can afford to purchase. Thus, persons at lower incomes are subject to the stress of food insecurity from a compromised diet that results when food is no longer available.

In 1998-99, Aboriginal people off-reserve were almost three times more likely to be living in households experiencing food insecurity than was the case for all Canadians (27% to 10%). Table 12 shows that this condition is strongly related to low incomes as well as single parent status, both of which we know from other data are more likely to occur in Aboriginal households. Thus, the high prevalence of food insecurity for Aboriginal people is not surprising. In the literature, food insecurity is related to health outcomes that include multiple chronic conditions, obesity, distress and depression (102).

<table>
<thead>
<tr>
<th>Table 12: Prevalence of Food Insecurity, by Level and Selected Characteristics, Household Population, Canada Excluding Territories, 1998-99 (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Any Food Insecurity</td>
</tr>
<tr>
<td>----------------------</td>
</tr>
<tr>
<td>Residents of households relying on social assistance</td>
</tr>
<tr>
<td>Residents of low-income households</td>
</tr>
<tr>
<td>Lone mother with children</td>
</tr>
<tr>
<td>Aboriginal people off-reserve</td>
</tr>
<tr>
<td>Children 0-17</td>
</tr>
<tr>
<td>Total, Canada</td>
</tr>
</tbody>
</table>

Source: Che & Chen, 2001 (143).
Notes: 1) Two health regions have been excluded from the analysis. 2) Household income is derived by calculating total annual income and taking into account the number of persons in the household. 3) In the Canadian Community Health Survey, a major depressive episode is diagnosed on the basis of a series of questions that measure a cluster of symptoms for depressive disorders. 4) Percentages have been age standardized to the Canadian population.

\(^{10}\) Food insecurity can refer to "any insecurity" that includes concern there will not be enough to eat because of a lack of money in the previous 12 months, as well as a "compromised diet," which includes either the quality or the quantity of food (or both) that one would want to eat because of a lack of money.
4. INTERMEDIATE DETERMINANTS OF HEALTH

While proximal determinants represent the root of much ill health among Aboriginal peoples, intermediate determinants can be thought of as the origin of those proximal determinants. For instance, poverty and deleterious physical environments are rooted in a lack of community infrastructure, resources and capacities, as well as restricted environmental stewardship. Likewise, inequitable health care and educational systems often act as barriers to accessing or developing health promoting behaviours, resources and opportunities. The interaction of intermediate determinants is especially evident in the connection between cultural continuity and other intermediate determinants, all of which have a direct influence on proximal determinants.

4.1 Health Care Systems

In order to realize the benefits of an advanced system of health care, Canadian individuals must have physical, political and social access to those services; this is often not the case for Aboriginal peoples (103-104). The federal system of health care delivery for status First Nations people resembles a collage of public health programs with limited accountability, fragmented delivery and jurisdictional ambiguity (105). Moreover, current health care services remain focused on communicable disease, while mortality and morbidity among Aboriginal peoples are increasingly resulting from chronic illness. Social access to health care is similarly limited or denied to Aboriginal peoples through health systems that account for
Table 13: Health Care Utilization and Access, Household Population Aged 15 or Older, by Off-Reserve Aboriginal Status, Canada and the Northern Territories, 2000-01 (%)

<table>
<thead>
<tr>
<th></th>
<th>Canada</th>
<th>Territories</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Aboriginal</td>
<td>Non-Aboriginal</td>
</tr>
<tr>
<td>Contact with Health Professional in Last 12 months</td>
<td></td>
<td></td>
</tr>
<tr>
<td>General practitioner</td>
<td>76.8</td>
<td>78.7</td>
</tr>
<tr>
<td>Eye specialist</td>
<td>37.9</td>
<td>38.0</td>
</tr>
<tr>
<td>Other medical doctor</td>
<td>24.7*</td>
<td>28.9</td>
</tr>
<tr>
<td>Nurse</td>
<td>16.8*</td>
<td>9.8</td>
</tr>
<tr>
<td>Dentist</td>
<td>45.2*</td>
<td>59.4</td>
</tr>
<tr>
<td>Has a regular doctor</td>
<td>76.4*</td>
<td>83.9</td>
</tr>
<tr>
<td>Unmet health care needs</td>
<td>19.6*</td>
<td>12.7</td>
</tr>
</tbody>
</table>

Source: Data source is the Canadian Community Health Survey, 2000/01, as reported in Tjepkema, 2002 (136), p. 10. Note: *Significantly different from the non-Aboriginal estimate.

Another determinant of positive health outcomes is having access to the required services on a timely basis. Table 13 shows different patterns of utilization of health care professionals, and suggests more limited access to doctors and dentists. This is most notable in the North, where nurses play a stronger role. Also, a higher percentage of Aboriginal people indicate that they have unmet health care needs.

As with other Canadians, First Nations adults living on-reserve have difficulty accessing health care services because of long wait lists (Table 14). In addition, however, they are limited by needed services not being covered or approved by the federal Non-Insured Health Benefit plan and by doctors or nurses not being available in their area. Reports that the health care provided was inadequate or not culturally appropriate were also frequently mentioned barriers. The fact that many First Nations adults live in rural and more isolated communities, and at very low levels of income, led to a number of economic barriers to accessing health care.

4.2 Educational Systems

Adequate education, which in many ways continues to be denied to Aboriginal peoples, has a profound impact on income, employment and living conditions. Well-educated parents not only earn higher incomes, thereby improving proximal determinants of health, but they also pass the value of education and life-long learning to the next generation (111-112). Preschool programs have demonstrated the most favourable ‘return on investment’ among Aboriginal children (113). In fact, not only has education been correlated with optimal child development, but it has also been shown to mitigate some of the effects of poor child development on adult health (96). Yet, programs such as Aboriginal Head Start continue to be under-funded (34). Similarly, although the benefits of ‘culturally competent’ curricula have been demonstrated to retain Aboriginal high school students, most curricula continue to lack any focus on Indigenous content or learning styles (114). Finally, mainstream education systems pay little attention to social determinants that might act as obstacles for Aboriginal children and youth realizing the most from their education (113).
Table 15: Connection to the Land

<table>
<thead>
<tr>
<th>% of adults reporting on progress in renewing the relationship of First Nations persons to the land</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Good progress</td>
<td>11.1</td>
</tr>
<tr>
<td>No progress</td>
<td>45.5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>% of adults reporting that they often consume traditional foods</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protein-based foods such as game and fish</td>
<td>59.3</td>
</tr>
<tr>
<td>Berries and other types of vegetation</td>
<td>21.8</td>
</tr>
<tr>
<td>Other First Nations foods such as bannock, fry bread or corn soup</td>
<td>42.2</td>
</tr>
</tbody>
</table>


Table 16: Percentage of First Nations People Who Have Knowledge of an Aboriginal Language by Age Groups, Canada, 2001 and 2006

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total all ages</td>
<td>30</td>
<td>50</td>
<td>14</td>
<td>29</td>
<td>51</td>
<td>12</td>
</tr>
<tr>
<td>0-14 years</td>
<td>21</td>
<td>36</td>
<td>8</td>
<td>21</td>
<td>39</td>
<td>6</td>
</tr>
<tr>
<td>15-24 years</td>
<td>25</td>
<td>44</td>
<td>10</td>
<td>24</td>
<td>43</td>
<td>9</td>
</tr>
<tr>
<td>25-44 years</td>
<td>33</td>
<td>58</td>
<td>17</td>
<td>30</td>
<td>56</td>
<td>13</td>
</tr>
<tr>
<td>45-64 years</td>
<td>45</td>
<td>71</td>
<td>26</td>
<td>39</td>
<td>67</td>
<td>21</td>
</tr>
<tr>
<td>65-74 years</td>
<td>56</td>
<td>79</td>
<td>33</td>
<td>50</td>
<td>79</td>
<td>26</td>
</tr>
<tr>
<td>75 years +</td>
<td>59</td>
<td>83</td>
<td>31</td>
<td>52</td>
<td>83</td>
<td>24</td>
</tr>
</tbody>
</table>

Source: Statistics Canada, 2008 (138), Table 23.

4.3 Community Infrastructure, Resources and Capacities

The health of an individual and their family is substantially influenced by the community in which they live. In the case of Aboriginal peoples, the Assembly of First Nations and others contend that economic development is a key determinant of health (115-119). Limited infrastructure and resource development opportunities have been important contributors to economic insecurity and marginalization, with subsequent deprivation among community members. In addition, inadequate social resources, in the form of qualified individuals who can develop and/or implement programs, restrict Aboriginal communities’ access to funding. When communities experience fragmented, under-funded programs in which the bureaucracy increases community responsibility without a concomitant increase in power, community-level stress and paralysis can result (120).

4.4 Environmental Stewardship

Another key intermediate determinant of health that has been widely recognized is environmental stewardship (1). In fact, traditional ties to the natural environment are generally acknowledged as a major resource for the superior health enjoyed by Indigenous peoples prior to European colonization of the Americas (3). Unfortunately, the past 500 years have witnessed a rapid transition from a healthy relationship with the natural world to one of dispossession and disempowerment. Aboriginal peoples are no longer stewards of their traditional territories, nor are they permitted to share in the profits from extraction and manipulation of natural resources. Finally, contamination of wildlife, fish, vegetation and water has forced Aboriginal peoples further from the natural environments that once sustained community health (2).
The Regional Health Survey reveals that a high proportion of First Nations adults are still tied to the land when it comes to food sources, but very few believe that there has been much progress made in their community in renewing their relationship to the land (Table 15).

### 4.5 Cultural Continuity

A landmark study conducted by Chandler and Lalonde (1998) revealed that among First Nations people in British Columbia, rates of suicide (which are strongly linked to intermediate determinants) varied dramatically and were associated with a constellation of characteristics referred to as ‘cultural continuity’ (121). Cultural continuity might best be described as the degree of social and cultural cohesion within a community. According to Chandler and Lalonde, low rates or an absence of suicide in a community appear to be related to: land title, self-government (particularly the involvement of women), control of education, security and cultural facilities, as well as control of the policies and practice of health and social programs. Cultural continuity also involves traditional intergenerational connectedness, which is maintained through intact families and the engagement of elders, who pass traditions to subsequent generations (121).

Overall, it appears that the percentage of First Nations persons claiming knowledge of an Aboriginal language is holding steady at about 30% (Table 16), but this masks some slight gains for the on-reserve population and some losses on the part of those living off-reserve. There is cause for concern both because the off-reserve percentages are so low and because the younger age groups are much less likely to report knowing an Aboriginal language compared to those in the older age groups. (See Appendices – Tables 29 & 30).

Use of the Inuktitut language by the Inuit is quite high, especially in Inuit Nunnaat or homeland territories such as Nunavik and Nunavut where it approaches 100% (Table 17). However, comparisons between 1996 and a decade later suggest that the use of the language is declining.

In contrast to the Inuit and First Nations populations, the percentage of Métis with knowledge of an Aboriginal language is quite low, and this is especially the case for those in the younger age groups (Table 18). We know from other results that Cree is the most common language of the Métis, followed by Dene and Ojibway. Very few speak Michif, the traditional language of the Métis, which involves a mixture of the Cree and French languages.

According to the Regional Health Survey, close to three-quarters of First Nations adults living on-reserve consider traditional spirituality and religion to be very or somewhat important in their lives (Table 19).
5. DISTAL DETERMINANTS OF HEALTH

Distal determinants (122) have the most profound influence on the health of populations because they represent political, economic, and social contexts that construct both intermediate and proximal determinants. In the case of Aboriginal peoples, although intra and inter-group differences exist, to a large extent, colonialism, racism and social exclusion, as well as repression of self-determination, act as the distal determinants within which all other determinants are constructed. Historical research clearly indicates a link between the social inequalities created by colonialism and the disease, disability, violence and early death experienced by Aboriginal peoples in Canada (123).

According to Kelm (123), “colonization is a process that includes geographic incursion, socio-cultural dislocation, the establishment of external political control and economic dispossession, the provision of low-level social services and ultimately, the creation of ideological formulations around race and skin colour that position the colonizer at a higher evolution level than the colonized” (p. xviii). While neo-colonialism detrimentally influences the health of contemporary Aboriginal peoples, historic, successively traumatic events continue to affect generations through what has been referred to as ‘historic or cultural trauma’ (124).

In essence, the collective burden of a repressive colonial system has created conditions of physical, psychological, economic and political disadvantage for Aboriginal peoples.

5.1 Colonialism

Colonialism impacts the health of Aboriginal peoples by producing social,
political and economic inequalities that 'trickle down' through the construction of unfavourable intermediate and proximal determinants. The specific mechanisms of colonialism occur in diverse domains such as environmental relationships, social policies and political power.

The political agenda of the 20th century colonial system was to assimilate and acculturate Indigenous peoples into the dominant culture. This agenda is evident in legislation and social policies that reward assimilation through resources and opportunities, while punishing cultural retention through the creation of inequities (2).

Perhaps the most powerful mechanism of assimilation was the residential schools, which are often considered the vanguard of genocide and re-socialization of Aboriginal peoples (125-126). Through these schools, culture, language, family ties and community networks were destroyed for generations of First Nations, Métis and Inuit children. The result has been dramatic and devastating socio-cultural change among all Aboriginal peoples, including disengagement by many from their ancestry and culture.

One major dimension of historical trauma is the experience that Aboriginal students went through in attending residential schools, an experience that still has ramifications today for the health and well-being not only of the survivors, but also their children and grandchildren. Of the adults interviewed by the First Nations Regional Longitudinal Health Survey, 20% are survivors of residential schools, a figure that jumps to almost 50% for those who are in the 'above 50' age bracket. Almost half of the survivors report that the experience negatively affected their health and well-being. Table 20 also reveals that 43% of their children believe the residential school experience of their parents had a negative effect on the parenting skills of their parents. Specific aspects of the residential school experience are identified as contributing to the negative impact on the health and wellbeing of the survivors. (See Appendices – Tables 31 & 32).

<table>
<thead>
<tr>
<th>Residential School Characteristics</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proportion of adults attending</td>
<td>20.3</td>
</tr>
<tr>
<td>Proportion of those attending reporting a negative impact on their overall health and wellbeing</td>
<td>47.3</td>
</tr>
<tr>
<td>Belief that parent’s attendance at residential schools negatively affected the parenting they received as children</td>
<td>43.0</td>
</tr>
<tr>
<td>Most frequently mentioned elements of the residential school experience that contribute to the negative impact on health and wellbeing of survivors:</td>
<td></td>
</tr>
<tr>
<td>· Isolation from family</td>
<td>81.3</td>
</tr>
<tr>
<td>· Verbal or emotional abuse</td>
<td>79.3</td>
</tr>
<tr>
<td>· Harsh discipline</td>
<td>78.0</td>
</tr>
<tr>
<td>· Loss of cultural identity</td>
<td>76.8</td>
</tr>
<tr>
<td>· Separation from First Nations or Inuit community</td>
<td>74.3</td>
</tr>
<tr>
<td>· Witnessing abuse</td>
<td>71.5</td>
</tr>
<tr>
<td>· Loss of language</td>
<td>71.1</td>
</tr>
<tr>
<td>· Physical abuse</td>
<td>69.2</td>
</tr>
</tbody>
</table>

Source: First Nations Centre, 2005 (141), Table 2 and pp. 134, 146.

5.2 Racism and Social Exclusion

Racism and social exclusion have been a reality for Aboriginal peoples since first contact with British colonizers. The colonial system created social stratification along ‘racial’ lines, with a consequent hierarchical distribution of resources, power, freedom and control, all of which detrimentally affected Aboriginal health (2). Education, income and economy are driven by social policies, making the inequitable distribution of these determinants a social justice issue for Aboriginal peoples (127-128). Racism and its subsequent social exclusion continue to create barriers to Aboriginal participation and productivity in the national economy (41). Without equitable distribution of the determinants of health,
Aboriginal peoples cannot realize the same possibilities for health. Relegated to the bottom of the social hierarchy, Aboriginal peoples continue to be exposed to health damaging intermediate and proximal determinants, which increase their vulnerability to illness and reduce their capacity to address ill health.

Research is now establishing that groups subjected to racial and other forms of discrimination may well have more negative health outcomes because of the stress of living in a racially charged environment (86, 90). While the level of racism affecting particular groups is difficult to measure, one approach is to ask respondents if they have experienced racism within a given time period. In response to such a question, almost 40% of First Nations adults living on-reserve say that they have experienced racism in the 12 months prior to the survey (Table 21). When Aboriginal youth experience social exclusion, research indicates that alcohol and drug use increases (129). Furthermore, 27% of those who experienced racism say that it had some, or a strong, effect on their level of self-esteem.

### 5.3 Self-Determination

Self-determination has been cited as the most important determinant of health among Aboriginal peoples (130-133). Self-determination influences all other determinants including education, housing, safety, and health opportunities. Recently, Chandler and Lalonde provided evidence of this link through an inverse relationship between self-determination and suicide among First Nations in British Columbia (121).

In order to ensure the most favourable intermediate determinants of health, Aboriginal peoples must participate equally in political decision-making, as well as possess control over their lands, economies, education systems, and social and health services. Unfortunately, this is not the case; rather, the colonial agenda has enforced unequal access to and control over property, economic assets and health services. In many ways, this restrictive structure has actually encouraged Aboriginal social, political and economic development that is not self-determined.

Equity requires authority and freedom, with authority involving material, psychosocial and political domains. Unfortunately, colonial governments and institutions do not act upon evidence, resulting in unequal participation of Aboriginal people in political institutions that govern their fate.

Some research has traced a link between self-determination at the community level and health outcomes. It appears that there is also a connection at the individual level, between the degree to which persons believe that they are in control of their lives, on the one hand, and feelings of depression on the other (Table 22). (See Appendices – Tables 27 & 28).
Data presented in this paper clearly demonstrate the burdensome health disparities facing all Aboriginal peoples. Yet, these disparities are not homogenous and must be understood within the diverse and sometimes disparate contexts within which First Nations, Inuit and Métis people live. Beyond health behaviours, the evidence is clear that social determinants at proximal, intermediate and distal levels influence health in complex and dynamic ways. The individual and cumulative effects of inequitable social determinants of health are evident in diminished physical, mental, and emotional health experienced by many Aboriginal peoples. Unfavourable distal, intermediate and proximal determinants of health are associated with increased stress though lack of control, diminished immunity and resiliency to disease and social problems, as well as decreased capacity to address ill health. The complex interaction between various determinants appears to create a trajectory of health for individuals that must be addressed through a social determinants approach.

It is clear that the origin of good health arises long before conception, with the historical, political, economic and social contexts into which we are born. After birth, distal, intermediate and proximal determinants continue to influence health over the life span. Beginning in early childhood, social determinants establish a potential trajectory that is only moderately mutable in the current social and economic context within which many Aboriginal children live. Access to resources for health during this critical developmental stage has implications over the entire life course, particularly for adult health. In fact, Marmot (13) suggests that, “the seeds of adult health and health inequity are sown in early childhood” (p. 19). For example, children require a healthy environment
in order to maximize brain development
and the ability to learn and experience
themselves and the world. Less than
optimal development has consequences not
just for adult health, but also for the health
of subsequent generations through the
perpetuation of unhealthy environments
created by inequitable determinants.
Aboriginal peoples are the fastest growing
demographic group in Canada, with almost
60% of the Aboriginal population under
the age of 25 (18). The health consequences
of unhealthy developmental environments
for this fast-growing population of children
and youth are obvious, considerable,
compounding and potentially devastating.

6.1 Putting It Together: The
Integrated Life Course and
Social Determinants Model of
Aboriginal Health (ILCSDAH)

The complex, intersecting and interrelated
determinants and contexts of Aboriginal
health requires a model that permits
researchers to explore the pathways that
influence health and the points at which
interventions will be more effective.
The Integrated Life Course and Social
Determinants Model of Aboriginal Health
depicts life stages, socio-political contexts
and social determinants as nested spheres
of origin, influence and impact; each
affecting the other in temporally and
contextually dynamic and integrated ways.
The model incorporates four dimensions
of health across the life course including,
physical, spiritual, emotional and mental.
This multi-dimensional construct
reflects Aboriginal contexts and social
determinants that not only have a direct
impact on health but also interact with
one another to create vulnerabilities and
capacities for health.

The ILCSDAH Model permits not only
examination of the distal, intermediate and
proximal social determinants of health, but
also accounts for the unique socio-political
contexts, life stages and dimensions of
health that act as pathways through which
determinants express influence. This model
encourages examination of the ways in
which socio-political contexts and life
stages are shaped by and, in turn, shape
social determinants of all domains of health.
The model also permits an analysis of
how the differential health impacts of
social determinants on children, youth
and adults is filtered through diverse
Aboriginal socio-political contexts, within
and across Inuit, Métis and First Nations
communities (including urban, rural,
settlement and reserve). Socio-political
contexts not only represent filters through
which social determinants influence
health, they also represent barriers and
opportunities for addressing children,
youth and adult health.

The ILCSDAH model conceptualizes the
origin and influence of social determinants
within distal, intermediate and proximal
domains. This classification is based on
Marmot’s 2005 reference to the “causes
of causes” of health (13). Proximal,
intermediate and distal social determinants
are filtered through socio-political
contexts, life stages and health dimensions
(physical, emotional, mental and spiritual)
to shape overall well-being. The sphere
reflects not only the multi-dimensionality
of each domain of health and its social
determinants, but also the interrelatedness
of these domains. Although the model
adds additional layers of abstraction to
current Aboriginal health models, it also
reflects the reality of what is now clearly
understood as a complex and dynamic
interplay of social, political, historical,
cultural, environmental, economic and
other forces that directly and indirectly
shape Aboriginal health.

A particular advantage of this model is
that it permits an exploration of potential
trajectories of health influence across
the life course. The notion of health
trajectories not only corresponds with
many Indigenous ideologies, which employ
temporal concepts to understanding
health, but might also facilitate prediction
of the ways socially determined health
vulnerabilities among children and youth
are predictive of health problems during
adulthood. Ultimately, assessment of social
determinants could lead to individual,
family and/or community interventions
that improve health outcomes.
First Nations children living on-reserve encounter a number of chronic or long-term health conditions that are often triggered by substances in the environment, such as tobacco smoke, smog and mold. The most common conditions are asthma, allergies, ear infections and bronchitis. Typically, the prevalence of these conditions is higher for First Nations children than it is for all Canadian children (for example, asthma and bronchitis). The prevalence of learning difficulties is also a source of concern.
Table 25: Frequently Occurring Long-Term Health Conditions of First Nations Adults Living On-Reserve, and Other Adults in Canada

<table>
<thead>
<tr>
<th>Condition</th>
<th>Inuit</th>
<th>Métis</th>
<th>First Nations Adults On-Reserve</th>
<th>North American Indian Off-Reserve</th>
<th>Other Canadian Adults</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arthritis or rheumatism</td>
<td>9.4</td>
<td>19.5</td>
<td>25.3</td>
<td>20.3</td>
<td>19.1</td>
</tr>
<tr>
<td>High blood pressure</td>
<td>8.1</td>
<td>12.7</td>
<td>20.4</td>
<td>12.0</td>
<td>16.4</td>
</tr>
<tr>
<td>Allergies</td>
<td>-</td>
<td>-</td>
<td>19.9</td>
<td>-</td>
<td>30.3</td>
</tr>
<tr>
<td>Diabetes</td>
<td>2.3</td>
<td>5.9</td>
<td>19.7</td>
<td>8.3</td>
<td>5.2</td>
</tr>
<tr>
<td>Chronic back pain</td>
<td>-</td>
<td>-</td>
<td>16.7</td>
<td>-</td>
<td>21.4</td>
</tr>
</tbody>
</table>


Although the percentages and rankings differ slightly, we note that the most frequently occurring long-term health conditions experienced by First Nations youth living on-reserve are the same as those for children.

Table 26: Body Mass Index, Household Population 15 Years of Age and Over, by Off-Reserve Aboriginal Status, Canada, 2000-01

<table>
<thead>
<tr>
<th>Body Mass Index</th>
<th>Aboriginal Off-Reserve</th>
<th>Non-Aboriginal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acceptable or underweight</td>
<td>41.8</td>
<td>54.3</td>
</tr>
<tr>
<td>Overweight</td>
<td>33.5</td>
<td>31.7</td>
</tr>
<tr>
<td>Obese</td>
<td>24.7</td>
<td>14.0</td>
</tr>
</tbody>
</table>

Source: Data derived from CCHS 2000/01 as reported in Tjepkema, 2002 (136), p. 8.

Notes: 1) Body Mass Index (BMI) was calculated by dividing weight in kilograms by the square of height in metres. Three weight categories were identified: Acceptable or underweight (BMI less than 25), overweight (BMI 25 to less than 30), and obese (BMI of 30 or more). 2) Percentages have been age-standardized to the total Canadian population.

Aboriginal adults living off-reserve are much more likely to be obese than is the case for non-Aboriginal adults in Canada. Other data available to us suggest that this difference is even stronger for First Nations adults living on-reserve where obesity levels are in the range of 36%, but methods of calculation are not strictly comparable.

The long-term health conditions that affect First Nations adults living on-reserve tend to be the same as those affecting other Canadians except that diabetes is much more prevalent in the First Nations population. The data also suggest that Aboriginal people living off-reserve tend to have lower prevalence of long-term conditions than do those living on-reserve, and this is especially the case for diabetes, but these rates are still typically higher than they are for other Canadian adults except in the case of the Inuit.

Aboriginal adults living off-reserve are
Table 27: Adults 15 Years of Age and Over Who Have Suffered a Major Depressive Episode in the Last 12 Months by Off-Reserve Aboriginal Status (%)

<table>
<thead>
<tr>
<th>Mental Health Indicator</th>
<th>Aboriginal Off-Reserve</th>
<th>Non-Aboriginal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suffered a major depressive episode</td>
<td>13.2*</td>
<td>7.3</td>
</tr>
</tbody>
</table>

Source: Data is drawn from O’Donnell & Tait, 2003 (40), Table 1, p. 5. Note: *Significantly different from the non-Aboriginal estimate.

Table 28: Percentage of First Nations Youth Living On-Reserve Who Report Feeling Sad, Blue or Depressed for Two Weeks or More in a Row

<table>
<thead>
<tr>
<th>Mental Health Indicator</th>
<th>Aboriginal Off-Reserve</th>
<th>Non-Aboriginal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feeling sad, blue or depressed for 2 weeks or more</td>
<td>37.1</td>
<td>18.1</td>
</tr>
</tbody>
</table>

Source: First Nations Centre, 2005 (141), p. 221

Table 29: Importance of Keeping, Learning or Relearning an Aboriginal Language, by Age Group, Métis Identity Non-Reserve Population 15 Years of Age and Over, 2001 (%)

<table>
<thead>
<tr>
<th>Age</th>
<th>Very or somewhat important</th>
<th>Not very or not important</th>
<th>No opinion</th>
<th>Not stated, refused</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 years +</td>
<td>49.6</td>
<td>46.4</td>
<td>1.9</td>
<td>1.9</td>
</tr>
<tr>
<td>15-24 years</td>
<td>47.0</td>
<td>48.7</td>
<td>2.2</td>
<td>1.9</td>
</tr>
<tr>
<td>25-44 years</td>
<td>52.9</td>
<td>43.4</td>
<td>1.7</td>
<td>1.8</td>
</tr>
<tr>
<td>45-64 years</td>
<td>47.9</td>
<td>48.4</td>
<td>1.4</td>
<td>2.0</td>
</tr>
<tr>
<td>65 years +</td>
<td>42.6</td>
<td>51.5</td>
<td>3.6</td>
<td>2.2</td>
</tr>
</tbody>
</table>


In the Canadian Community Health Survey, a major depressive episode is diagnosed on the basis of a series of questions that measure a cluster of symptoms for depressive disorders. Aboriginal adults living off-reserve are almost twice as likely to experience a major depressive disorder compared to other Canadians.

A high percentage of First Nations youth living on-reserve reported feeling sad, blue or depressed for two weeks or more in the previous year. Table 28 also reveals a substantial difference between male and female youth.

Aboriginal groups typically place a high value on retaining, learning or relearning their Aboriginal language, and the Métis are no exception. In this chart, we learn that approximately half the adult Métis population believes that this issue is either very or somewhat important, and the opinions are fairly consistent across different age groups.
Table 30: Who Helps Aboriginal Children Learn an Aboriginal Language, Canada, 2001 (%)

<table>
<thead>
<tr>
<th>Type of person assisting with language instruction</th>
<th>Inuit</th>
<th>North American Indian Off-Reserve</th>
<th>First Nations On-Reserve</th>
<th>Métis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parents</td>
<td>86</td>
<td>64</td>
<td>67</td>
<td>62</td>
</tr>
<tr>
<td>Grandparents</td>
<td>46</td>
<td>55</td>
<td>62</td>
<td>51</td>
</tr>
<tr>
<td>School Teachers</td>
<td>54</td>
<td>30</td>
<td>35</td>
<td>30</td>
</tr>
<tr>
<td>Aunts and Uncles</td>
<td>28</td>
<td>27</td>
<td>31</td>
<td>22</td>
</tr>
<tr>
<td>Other Relatives</td>
<td>34</td>
<td>21</td>
<td>23</td>
<td>19</td>
</tr>
<tr>
<td>Friends</td>
<td>21</td>
<td>11</td>
<td>10</td>
<td>12</td>
</tr>
<tr>
<td>Community Elders</td>
<td>10</td>
<td>13</td>
<td>17</td>
<td>7</td>
</tr>
<tr>
<td>Community</td>
<td>17</td>
<td>9</td>
<td>17</td>
<td>5</td>
</tr>
</tbody>
</table>

Note: For children living in non-reserve areas. This question was asked only of those who spoke or understood an Aboriginal language. This restriction was not in place for those living on-reserve.

Cultural continuity in the form of language teaching is maintained primarily by the extended family and especially by parents and grandparents. Language education in schools is also important.

Table 31: Residential School Attendance for Aboriginal Adults Living Off-Reserve, and for First Nations Adults Living On-Reserve

<table>
<thead>
<tr>
<th>Proportion of Adults Attention</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Nations Living On-Reserve</td>
<td>20.3</td>
</tr>
<tr>
<td>First Nations Living Off-Reserve</td>
<td>8.4</td>
</tr>
<tr>
<td>Métis Living Off-Reserve</td>
<td>2.5</td>
</tr>
<tr>
<td>Inuit</td>
<td>13.0</td>
</tr>
</tbody>
</table>

Note: The Aboriginal Peoples Survey defines adults as those 15 years of age and over. In the Regional Health Survey, adults are considered to be 18 years of age and over.

This chart provides information about the proportion of adults who attended residential school. The percentages may appear low, but that is due to the fact that residential school survivors are now senior citizens, and many have passed away. A breakdown of these figures by age group reveals, for example, that among First Nations adults living on-reserve in 2002-03, the proportion of those 50 years and over who attended residential schools approaches 50%.
REFERENCES


sharing knowledge · making a difference
partager les connaissances · faire une différence