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## Indigenous health - Australia, Canada, Aotearoa New Zealand, and the United States - laying claim to a future that embraces health for us all: world health report (2010) background paper, no 33

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#### Abstract

[extract] Improving the health of all peoples has been a call across the globe for many decades and unfortunately remains an elusive goal today as the large disparities in health status of peoples found around the world have not diminished, and have arguably increased. Rather than referring to absolute differences in health, or health inequalities, we use a different term throughout this paper. We use the term health inequities because mere differences in health (or "inequalities") can be common in societies and do not necessarily reflect unfair social policies or practices. Report reproduced with the permission of the publisher.

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HEALTH SYSTEMS FINANCING The path to universal coverage



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## Indigenous Health – Australia, Canada, Aotearoa New Zealand and the United States - Laying claim to a future that embraces health for us all

World Health Report (2010) Background Paper, No 33

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We pay our respects to the Indigenous peoples of our countries, and to our Elders, past, present and future, and hope we have honoured their wishes in how this paper has been compiled.

As proposed by the International Group on Indigenous Health Measurement (IGIHM), Lisa Jackson Pulver was commissioned by the World Health Organization to coordinate the preparation of this background paper. We acknowledge each country's Ministries of Health, their national statistical and health data agencies and others who shared the data used in this paper. The paper also benefited from discussions and suggestions received during the UN Inter-Agency Support Group on Indigenous Peoples' Issues, hosted by the World Health Organization in Geneva on 16 September 2010, from peer reviewers and from on-going efforts by Sam Notzon, convenor of the IGIHM.

#### **Bio-sketches of key contributors**

Lisa Jackson Pulver is a Wiradjuri Koori woman who works as a researcher and epidemiologist at Muru Marri Indigenous Health Unit at the University of New South Wales. Lisa was appointed following a career that has progressed through positions as Public Health Epidemiologist, Public Health Officer, postgraduate health and medical student, registered nurse and counsellor. She holds the Inaugural Chair of Indigenous Health and is a Professor of Public Health at UNSW and is an Honorary Senior Research Fellow at Neuroscience Research Australia, Visiting Consultant at the Ageing Research Centre and the Director of Muru Marri Indigenous Health Unit. Lisa also serves as a Squadron Leader in the RAAF Specialist Reserve (Public Health Epidemiologist) and is currently serving 22 Squadron (City of Sydney) Richmond.

**Melissa Haswell** joined the Muru Marri Indigenous Health Unit in the School of Public Health and Community Medicine at the University of New South Wales in mid-2009. Melissa is a highly experienced researcher in epidemiology, primary health care, health promotion, social and emotional wellbeing and empowerment in Indigenous and international health.

**Ian Ring** has been involved in information about, and advocacy for, Indigenous health throughout his working life as Executive Director Health Information and Principal Medical Epidemiologist for Queensland Health, Head of the School of Public Health and Tropical Medicine at the James Cook University, and Foundation Direction of the Australian Primary Health Care Research Institute at the Australian National University. He is currently Professorial Fellow at the Centre for Health Service Development at the University of Wollongong and holds a conjoint position with the University of New South Wales, and works with a variety of national and international organisations, including the Australian Medical Association, the College of Physicians, the National Heart Foundation, various Australian government advisory bodies and the Close the Gap campaign, on aspects of Indigenous health

**John Waldon** is a co-joint lecturer at UNSW and holds the Health Research Council Eru Pomare Post Doctoral Fellowship in Maori Health hosted by the Research Center for Maori Health & Development, School of Public Health, Massey University. John was awarded a life membership by the Manawatu Centre of the Cancer Society of New Zealand and sits of the New Zealand Cancer Control Council.

**Wayne Clark** is an Inuk Beneficiary of the Nunavut Land Claim Agreement and oversees communications for the National Aboriginal Health Organization in Ottawa, ON. Wayne has worked in new media communications and program management in federal and provincial agencies prior to joining NAHO. He is a Master of Arts in Professional Communication Candidate at Royal Roads University and works as the Director of Communication, National Aboriginal Health Organization

**Valorie Whetung** is a member of Curve Lake First Nations. She has managed health and social services programs on two First Nations Reserves and has served on numerous boards and advisory committees. Prior to coming to NAHO, Ms. Whetung was Chief of Aboriginal Liaison and Training at Statistics Canada. Valorie has a Master of Arts in Canadian Studies from Carleton University and is the Director, First Nations Centre, National Aboriginal Health Organization

**Dianne Kinnon** is Inuit Tuttarvingat and has worked for many years in community health and as an independent consultant in social and health issues. She has worked continuously for and with Inuit, Métis and First Nations organizations since 1993 and has written extensively on population health issues, health inequities, capacity development and Aboriginal research. Ms. Kinnon has a Master of Arts in public administration from Carleton University and is with the National Aboriginal Health Organization.

**Catherine Graham** has worked with Aboriginal organizations at the national and local levels for more than 15 years on issues related to inclusion and equity, and has been with the Métis Centre of NAHO since 2008. Her research interests include the social determinants of health, culturally relevant gender-based analysis, mental health, Aboriginal identity, and indigenous governance. Catherine has a Master of Arts in Legal Studies from Carleton University and is a Director, Métis Centre, National Aboriginal Health Organization

**Michelle Chino**, Ph.D., is an Associate Professor of Public Health with the University of Nevada Las Vegas, School of Community Health Sciences. Dr. Chino's areas of expertise include the health of Indigenous populations, social determinants of health, and chronic disease and injury prevention **Jonathon LaValley**, MPH has ten years experience in injury prevention research among indigenous populations in New Mexico. He currently is a doctoral candidate at the University of Nevada, Las Vegas.

**Ritu Sadana** is Coordinator, Health Equity Analysis and Research, at the World Health Organization, Geneva. Since 1984, she has worked in the area of health policy, economics, management and research in public and private sectors in many low, middle and high income countries. Most recently, she supported the WHO Commission on Social Determinants of Health's evidence synthesis efforts and coordinated the development of a global WHO Scientific Resource Group on Health Equity Analysis and Research. She holds a doctorate (ScD) from Harvard University and MSPH from the University of California, Los Angeles.

**Francis C (Sam) Notzon** is Director of the International Statistics Program at the U.S. National Center for Health Statistics (NCHS), CDC. He holds M.S. degrees in demography and economics from the University of Wisconsin (1973), and a Ph.D. in Population Dynamics from Johns Hopkins University (1989). He has worked in the area of international health statistics for more than 25 years, dealing with both developed and developing countries as well as multi-national organizations. He is one of the founding members of the International Group for Indigenous Health Measurement and has served as convenor of the group since its beginning in 2004.

## Indigenous Health – Australia, Canada, Aotearoa New Zealand and the United States - Laying claim to a future that embraces health for us all.

#### I. Introduction

1.1 Health for all - within and across countries.

Improving the health of all peoples has been a call across the globe for many decades and unfortunately remains an elusive goal today as the large disparities in health status of peoples found around the world have not diminished, and have arguably increased. Rather than referring to absolute differences in health, or health inequalities, we use a different term throughout this paper. We use the term *health inequities* because mere differences in health (or "inequalities") can be common in societies and do not necessarily reflect unfair social policies or practices.

For example, natural ageing implies older people are more prone to illness - this paper does not review in detail the biologically driven health inequalities that exist, we focus instead on socially driven inequities. Yet, when differences are *systematic, socially produced and unfair,* these are considered health inequities. Certainly making judgments on what is systematic, socially produced and unfair, reflects value judgments and merits open debate. We are making explicit in this paper what our judgments are, and the basis for these judgments to facilitate scrutiny and debate.

The World Health Assembly in 2009 (WHO 2009) passed a resolution endorsed by each of its 193 Member States - that reducing health inequities within and across countries should be a priority for all countries and development partners.

It was further agreed that the task requires multiple sectors to work together in response to the overwhelming evidence that documents the distribution of health within and across countries that reflect a broad range of social determinants, including the interaction of social determinants with biological determinants.

The WHO's global health agenda clearly identifies four gaps that must be addressed. The first one is to increase social justice, followed by increasing responsibility, implementation and knowledge. Moreover, the WHO recognizes that to overcome these gaps, strong political will, integrated policies and broad participation are required.

Perfect health equity implies that everyone in society can attain their full health potential regardless of social position or other social circumstances and health equalities (or inequalities) should be evenly distributed across social groups.

The current reality is that factors that drive health inequity are systematic and not distributed randomly.

Instead they show a consistent pattern across different population groups. Many of these differences are not only due to physical health factors, but also increasingly due to social factors. In fact, the underlying causes are complex, often reflecting systematic social, political, historical, economic and

environmental factors, accumulated during a lifetime and transferred across multiple generations. The term "social determinants" is therefore used as shorthand for all of these factors.

1.2 Embracing Indigenous peoples.

Despite a number of global achievements that have improved population health, one key marker of the impact of inequities in health status globally, is the constancy of conspicuously poor health status of Indigenous populations of their Lands and in their countries, whether we look across the globe as a whole or within the wealthiest of nations.

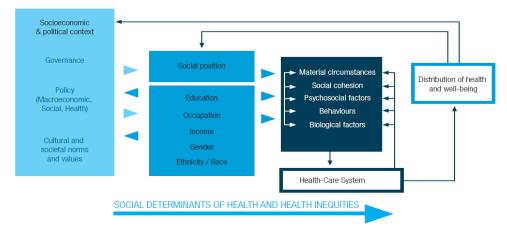
The phenomenal gains and advantages that development has thus far provided to Australia, Canada, Aotearoa New Zealand and the United States have not achieved *a present* that embraces equity in Indigenous health determinants, access or outcomes within their own borders.

The United Nations has estimated that there are about 370 million Indigenous people in the world today living in at least 70 countries (Secretariat of the Permanent Forum on Indigenous Issues 2009). An estimated seven million of these people live within the high income countries of the United States, Canada, Aotearoa New Zealand and Australia. These four nations share a colonial history associated primarily with the British that commenced between 400 and 500 years ago in the Northern hemisphere (US, Canada) and just over 220 years ago in the Southern hemisphere (Australia, Aotearoa New Zealand). Despite the vast difference in time and place, familiar stories of the colonisation experience and its lasting impact on the health status and challenges faced today in striving *for recovery* emerge as a shared legacy of *unfinished business*. Profound health and social inequities persist between Indigenous and non-indigenous populations of all four nations, as this paper and other evidence documents extensively.

1.3 Pathways to improving health.

To think through the complexities in producing valid data on the distribution of health and what contributes to health inequities, the WHO has adopted a social determinants of health approach to the reduction of health inequities. A simple framework (Figure 1), adapted from the Diderichsen model (Diderichsen 1998; Solar & Irwin 2007), helps to identify social determinants of health and the pathways that contribute to health inequities.





Source: WHO 2008 (p 43).

Key questions that should be described in relation to each of the four "blocks" found in the framework can be summarized as:

1) Socioeconomic and political context: What are the main characteristics of a country that influence the form and magnitude of social stratification as well as the implications of stratification for the circumstances in which people live and work?

2) Social stratification: What are the key dimensions of social stratification? How extensive is the social stratification?

3) Differential exposures, vulnerabilities, and consequences: What is the extent of (a) differential vulnerabilities, (b) differential exposures, and (c) differential consequences? The differential exposures (e.g. ineffective services) and consequences (e.g. financial burden), in the way individuals interact with social systems, such as health care or education, are part of this block.

4) Differential outcomes in health: What are the main resulting health inequities that emerge in a given society and what is the extent of these health inequities?

This conceptual framework served as the departure point on how to "operationalize" or make concrete monitoring and assessment, with the initial purpose of describing levels and potential linkages across components within national settings or for population sub-groups. This framework can therefore be used to identify indicators for monitoring and evaluation, to enable both qualitative and quantitative assessment of the state of social determinants of health and linkages to health inequities.

1.4 Understanding and documenting social determinants of Indigenous peoples' health.

To truly understand the challenge of recovery, complete and accurate data on Indigenous people are needed within these domains for several purposes. These include the monitoring of progress towards the goal of health equity, to serve as inputs to policy discussions and decisions with a wide range of stakeholders, and to keep governments and organisations accountable for forward movement, including progress on policy targets and related objectives and goals.

That being noted, achieving and demonstrating accuracy in identification and measurement of Indigenous health status across these key domains is an enormous task, with challenges and opportunities varying within and across countries.

Australia, Canada, Aotearoa New Zealand and the United States and share a common language, have well established statistical systems to be able to explore and report on what is happening on the ground and enjoy a long history of collaboration with each other. Despite this, there are clear indications that each country experiences significant problems in the collection of accurate data on Indigenous peoples as a whole, and on health in particular. There is clearly a need to improve communication between statistical and health data collectors and agencies, and Indigenous representative groups and advisors, to facilitate the movement from data to information to guided action.

1.5 Collaboration as one important way forward.

The International Group of Indigenous Health Measurement (IGIHM), comprising individuals and groups from Australia, Canada, Aotearoa New Zealand and the United States, was established in an effort to improve definitions, upgrade the quality of collection and uses of health data and share

information with colleagues in the other countries who experience the same issues. It is agreed that high quality data are fundamental to understanding the causal mechanisms which underlie health disparities in our peoples.

Since 2004, there have been biannual meetings, each dedicated to the many issues in advancing health data. The IGIHM invited the WHO's contribution to its third meeting in Kona, Hawaii in 2008. Since then, the WHO has actively participated in subsequent meetings of the IGIHM.

Technical discussions between the IGIHM and WHO concluded that data on health systems and Indigenous peoples -- including health systems financing data pertinent to this paper -- are incomplete even in these four high income countries.

One aim of the World Health Report of 2010 (WHO 2010), is to provide examples and discuss options on how low, middle and high income countries can finance health systems to move more quickly towards the goal of universal coverage. It was clear that the experiences fostered by the IGIHM to improve methods, share data, and move forward collaboratively across the four countries, could contribute to the aims of the World Health Report (e.g. the health-financing decision process), and at the same time benefit Indigenous peoples in other countries.

Following our initial meetings it was then agreed that the IGIHM support – for the first time in history - the inclusion of a brief examination of Indigenous health within these four countries as a background paper to the WHO's World Health Report.

1.6 Universal coverage of all Indigenous peoples -- without financial hardship.

While all blocks in Figure 1 are critically important, the intended focus of this paper is on the health system (within block 3 in Figure 1). We have been asked to look at the approach to financing services (spanning preventive to palliative care - at the population, community, household or individual level) and the pooling of financial risk, so that economic barriers to gain access to effective services, potentially faced by Indigenous people, are minimized or eliminated. Access to effective services is what WHO has named as *coverage*, and *universal coverage* means that all people can access health services that they need, and that these services are effective. Moving towards the goal of universal coverage also means reducing health inequities particularly within countries.

The added dimension of universal coverage is that all people should benefit while being protected against financial hardship associated with paying for this care, either through out of pocket payments (to health providers as co-payments), insurance premiums, or other ways that governments raise revenues to pay for health services. This does not imply that care is free, but does mean that governments should steward an approach to finance health systems that are progressive, inclusive and effective.

Taking on a social determinants approach also means not limiting analysis to proximal risk factors, such as behaviours and lifestyles, which is the current paradigm expressed by the "individual risk factor" approach to improve health.

Instead, a broader perspective on what are the "causes of the causes" as well as the "how" on the protection and promotion of individual and community strengths is needed to address the underlying social (and economic, etc.) determinants.

Therefore, academic members of the IGIHM group across the four nations have produced this paper as a contribution toward global health equity for Indigenous peoples. We explore the current approaches used to finance health services for Indigenous populations. We wish to inform the development of options to extend coverage to Indigenous populations, reduce financial barriers, and address institutional or systemic issues.

For Indigenous peoples, this broader approach must complement the existing emphasis on "risk factors, lifestyle or behaviours". Monitoring the implementation of expanded coverage and reduction in financial barriers, and the resulting distribution of health across population sub-groups, will add to the evidence base on ways to improve health equity.

#### **II.** Summary

#### 2.1 Overview.

Prepared during 2010, this document includes four country-specific sections investigating Indigenous health, with an attempt to document available data on coverage and health financing, with each of these four sections led by Indigenous members of the IGIHM. Each country specific report benefited from the data and other material shared by national statistical agencies or ministries of health in each country (see Annex 1). A brief overview is provided, prior to the country specific sections.

In each, the authors highlight key strengths, issues and challenges surrounding data issues and sources, inequities in health status and health service access, current funding approaches to Indigenous health programs and services, policy which sets out future aims and explores how the outcomes of these should be monitored and evaluated. That being noted, the degree to which each section discusses each of these focusing on Indigenous health, varies based on the available and valid data and evidence within Australia, Canada, Aotearoa New Zealand and the United States.

It is clear, that despite their overwhelming growth in national wealth, each country struggles with the achievement of health equity within their borders. These wealthy countries enjoy many advantages in their capacity to address inequities, in health and other areas, and have the potential to ensure that each and every citizen enjoys the right to good health and that health inequities are systematically reduced.

We reveal that the drive to finance universal coverage among Indigenous peoples in each country poses major challenges to health systems that are not necessarily tailored to Indigenous people, who often have distinctly different needs from those of the non-indigenous or mainstream populations.

2.2 Shared contexts across the four countries.

Although the situation within each country has unique characteristics, some aspects of the contexts, strengths and challenges are shared across countries. Among those shared are:

• The diversity of language, culture and practice across Indigenous peoples within the four countries. While this is a major source of strength and pride, it poses administratively the challenge that "one size doesn't fit all" – what works for one Indigenous group, may not work for another.

- The proportion of the total population of these countries that are correctly identified as Indigenous ranges from 1.6% in the United States to 14% in New Zealand. There are also differences and distinctions in definitions of who is Indigenous and who is not, who are counted and who are not. There is also a large degree of geographical dispersion of Indigenous peoples, with growing urbanisation in some areas, to profound geographical isolation in remote areas where services struggle to provide basic health care services, retain staff locally and ensure a consistent, appropriate level of care commensurate with need. Each of these differences is associated with different data collection and analysis approaches.
- It is hard to claim national voice based on numerical representation alone; however, voice can
  be magnified through outstanding leadership in some areas, yet there is not and will
  probably never be one voice that could possibly represent the needs of all Indigenous
  peoples in a given nation. It must be noted, that the voices of non-indigenous peoples are
  represented through a process known as Parliament or Congress. The expectation of the
  mainstream, that the Indigenous community will speak with one voice only, is not something
  that the mainstream holds itself to (indeed the mainstream is made up of different sub-views).
  The extent to which Indigenous peoples are represented in mainstream processes is not the
  focus of this paper, yet it is an important consideration in the development of health policies,
  including health financing policies, that require leadership across many sectors.
- Indigenous populations in all the countries are growing rapidly and have lower median ages, higher death rates at younger ages and a higher child to adult dependency ratio, in comparison to non-indigenous populations. While bringing enormous energy and creativity to these populations, growing numbers of young people are in direct contrast to the ageing, non-indigenous populations. In other words, our Indigenous populations are 'youthing' whilst the non-indigenous populations are 'ageing'.
- Gaps between Indigenous and non-indigenous peoples are not only clear in health status, but also in socioeconomic status, education, employment, environmental and social health and most other social determinants of health. This level of material disadvantage comes on top of persisting intergenerational grief and loss, some from the denial of the impacts of colonisation on Indigenous peoples, and others from harmful, dominating government policy. This means that the burden of disease, and requirement for health services appropriate for level of need, is likely to remain while these collective inequalities exist.
- 2.3 In practice, country-specific.

The ways of dealing with these differences between Indigenous and non-indigenous populations are also reflected in different approaches to finance services for Indigenous and mainstream populations in each country. The country specific reports in this paper document, for example:

• In Australia, only 15% of Indigenous peoples versus 51% of non-indigenous peoples have private health insurance coverage. Although per capita Indigenous health expenditures are equal to or even greater than the national average, this is a relatively recent phenomenon and does not adequately reflect the higher burden of illness for Indigenous people, and has only just begun to acknowledge or address serious health disparities.

- In Aotearoa New Zealand, public funding is provided only for child and adolescent oral health and for primary health care services. Indigenous Peoples are less likely to use services when they incur out of pocket payments and experience socio-economic disadvantage.
- In the United States, different funding streams for Indigenous peoples health exist through the Indian Health Service and is not indexed to inflation, population growth, or salary increases (in contrast to other financing steams that are). This results in a situation of declining services in the face of growing need.

As each country is committed to achieving health for all citizens, these higher per capita Indigenous health expenditures will be needed for some time to correct for the unacceptably high burden of disease and mortality currently being experienced by Indigenous peoples.

Each country also uses different mechanisms to monitor and understand the current situation of their Indigenous peoples. There is variation in how Indigenous peoples are identified, classified and enumerated in data sources and surveys, and in the census. Not all countries consistently collect information on their Indigenous peoples, and while significant efforts are being made to correct this, our present information is often incomplete and of poor quality, thus rendering some of it unusable or incomparable with future assessments. Moreover, the country specific reports in this paper show that data on health systems financing and Indigenous peoples, are incomplete even in these high income countries.

This lack of reliable data prevents clear recognition of where we are now, how policy and practice changes are affecting access to health care and resulting health outcomes, how the social determinants of health are changing and impacting, and how quickly positive outcomes are being achieved.

2.4 Ways Forward to increase collaboration towards health equity.

In each country, Indigenous peoples have engaged with Governments over time. We know the issues and are aware of what is needed to make the solutions happen. All groups highlight the key mechanism for implementing solutions is through partnerships, collaboration, respect and relationships that are based on trust and multiple dimensions, one of which includes reciprocity.

There are many examples of how Indigenous peoples are leading the partnerships in solutions. These success stories all hold to some simple but key principles: they are many ways to relationships, they take time, trust, love and respect to make happen and they take commitment to sustain.

Each also acknowledge that capacity building is something that is not a one way process, that it is not only Indigenous peoples and community that need their capacity to be built. Partnerships – to be equal, require the learning and the work and the practice to be a many ways process that moves across world-views. That means that all stakeholders need to develop their capacity and up-skill to make the changes necessary to ensure equitable health outcomes for all their peoples. Developing capacity is a key component in addressing many of the health issues specifically to Indigenous peoples. The sharing of best practice methods, approaches and experiences between countries as well as work on the international level with organizations on Indigenous health issues are of great importance.

One mechanism at the international level is the Inter-Agency Support Group on Indigenous Peoples' Issues (IASG). The IASG was established in 2002 to support and promote the UN Permanent Forum on Indigenous Issues, which focuses on indigenous issues related to economic and social development, culture, the environment, education, health and human rights. With the recently released

IASG 2010 meeting report, there were a number of important and explicit recommendations and priorities which support partnerships and capacity building, as well as improving data and analysis. They include the need for UN agencies to have a framework or policy on Indigenous peoples; to accept the real challenge of identification of Indigenous peoples in many countries; the need to develop standard data definitions, agreed collection methodologies, agreed analytical approaches to that data and agreed methods of interpreting and reporting, not in isolation of governments; and to expect each country to collect data on appropriate indicators and facilitate information sharing. The IASG also requests that WHO develop a set of criteria for good practice achieving Indigenous peoples' health.

The country specific reports in this paper document that improvement in data quality is a priority, and includes specific identification of Indigenous people in birth and death records and hospital and health service information systems and all other associated data bases, to better develop and refine approaches to reduce health inequalities that exist, and to justify and guide increased expenditures for Indigenous peoples that are required to reduce these inequalities.

From our perspective, international recognition of what we are doing and of what we are asking for requires collaboration and support from the WHO and other important international groups and agencies.

A proposal for the designation of a WHO Collaborating Centre in Indigenous health measurement is currently being developed and if successful, will join the other 900 such WHO Collaborating Centers worldwide. Of those 900 that currently exist, less than five have explicitly noted Indigenous peoples or specific ethnic groups as part of their terms of reference. Even so, the terms of reference tend to focus on specific conditions, risk factors or diseases, rather than on more holistic issues or health and data measurement or metrics.

A thriving and productive WHO Collaborating Center on International Indigenous Health measurement would be beneficial, not only for Indigenous peoples of these four countries, but those living in some 90 countries globally.

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2.5 References: Introduction and Summary

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#### III. Australia.

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#### 3.1 Introduction to Aboriginal and Torres Strait Islander Australia

Aboriginal and Torres Strait Islander people are the First Peoples of Australia. Aboriginal people have been present on this continent for at least 50,000 to 70,000 years (Hudjashov *et al.* 2007). The colonisation and post-colonisation experience over the past 222 years devastated, but did not destroy, Aboriginal and Torres Strait Islander peoples and their cultures.

The National Apology to the Stolen Generations in 2008 (Rudd 2008) gave many people hope that Australia has entered an era of change, recovery, and a re-discovery of its ancient heritage. If successful, the nation will re-emerge from a tragic past with an enhanced base of knowledge for decision making and action to face her many seen and unseen future challenges. Australia's diverse peoples will - at last - have the opportunity to move forward with a collective yet respectful sense of belonging.

To achieve this, improvements in the health and wellbeing of Australia's First Peoples must remain a national priority. However, achieving positive change, recovery of health and social equality requires clear application of Indigenous health principles and practices guiding the best of contemporary public health and primary, secondary and tertiary health care.

This short chapter provides a snapshot of Aboriginal and Torres Strait Islander health status and service usage patterns and describes our current policy thrust towards better outcomes.

#### **3.2 Basic demographics**

Australia has two major Indigenous groups, namely Aboriginal and Torres Strait Islander peoples, within and between which there is much diversity in origin, culture and world views, and different experiences of colonisation. Whilst comprised of 500 to 600 distinct groups, Australia's First Peoples possess several unifying links. Among these are strong spiritual beliefs that tie people to the Land and Sea; a culture of storytelling and art; collectivist identity and, like other First Nations populations, a persisting legacy of inequality stemming from a devastating colonial history.

The words of Nyungar activist and writer, Mudrooroo, summarise clearly a part of the world view that characterises an Aboriginal Australian's view:

Traditionally, Aboriginal society is based on three major principles. The first of these is a powerful all encompassing religion. They believe that Aboriginal children are born of women but conceived of a spiritual source whose fonte is the land. And to them the land has two kinds of landscapes – one is physical, which all human beings can view. The other is spiritual, which only they can see. For Aboriginal people there is only one way to own land and that is to be conceived of it. Land is a parent. This very important principle prevents any kind of land aggrandisement, which has been the scourge of the rest of the world (Reynolds1989, pp. 88-92).

Further, Australia listened to and has since adopted a definition of Aboriginality based on individual and collective identity. Thus a working definition that is legally and widely accepted is:

An Aboriginal person is often defined legally as a person who is a descendant of an Indigenous inhabitant of Australia, sees himself or herself as an Aboriginal person and is recognised as Aboriginal by members of the community in which he or she lives (Australian Institute of Aboriginal and Torres Strait Islander Studies 2008).

Torres Strait Islanders are people who belong to the area today known as the Torres Strait Islands. These Islands are located in the waters that separate Queensland's Cape York Peninsula and Papua New Guinea. Today, there are 18 island and two mainland communities with local governance structures and primary health care centres. A substantial number of Torres Strait Islanders live on mainland Australia outside of the Torres Strait region, with most residing in Queensland.

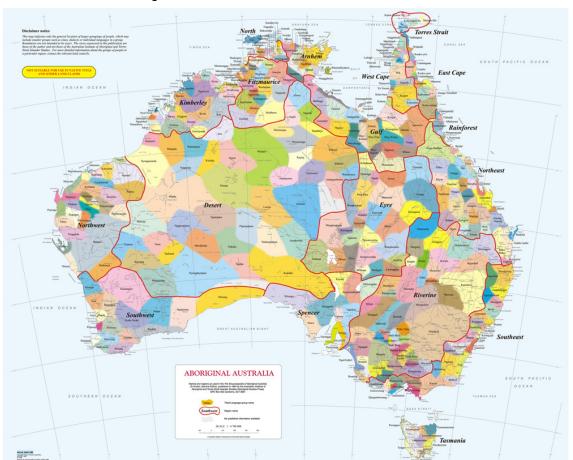


Figure 1. Map of Aboriginal Australia demonstrating the multitude of Aboriginal and Torres Strait Islander cultural and language groups across the continent (Horton 1994) – used with permission of the Australian Institute of Aboriginal and Torres Strait Islander Studies.<sup>‡‡</sup>

Today's Aboriginal and Torres Strait Islander population is estimated to comprise about 517,000 people, or 2.5% of the overall Australian population (ABS 2008). This marks a 14% increase from that population estimated in the unadjusted 2006 census of 455,028 people (ABS 2007).

At the same time, the majority of people identified as Indigenous resided in New South Wales (148,200 people) and Queensland (146,400 people), followed by Western Australia (77,900 people) and the Northern Territory (66,600 people) (ABS 2007). About 90% (463,900) of all Indigenous people identify as of Aboriginal origin alone, six percent (33,100) identify as of Torres Strait Islander

<sup>&</sup>lt;sup>‡‡</sup> This map is just one of many available representations of Aboriginal Australia. Using published resources available between 1988 and1994, this map attempts to represent all the language or tribal or nation groups of the Indigenous people of Australia. It indicates only the general location of larger groupings of people which may include smaller groups such as clans, dialects or individual languages in a group. Boundaries are not intended to be exact. This map is NOT SUITABLE FOR USE IN NATIVE TITLE AND OTHER LAND CLAIMS. David R Horton, creator, © Aboriginal Studies Press, AIATSIS and Auslig/Sinclair, Knight, Merz, 1996. No reproduction allowed without permission.

origin only and about four percent (20,200) identify as being both Aboriginal and Torres Strait Islander origin.

The proportion of people identifying as Indigenous varies across the eight jurisdictions in Australia. In the Northern Territory, one in three people (32%) identified as Indigenous, whereas Victoria had the lowest proportion of people identified as Indigenous (0.6%) in the 2006 census (ABS 2007).

Remoteness is a useful categorisation of data and offers a snapshot of where Aboriginal and Torres Strait Islander peoples in Australia reside. There are five specific categories of remoteness: major cities, inner regional, outer regional, remote and very remote.

The majority of Aboriginal peoples are residing in the major cities (32%), followed by outer regional, inner regional, very remote and remote (22%, 21%, 15% and 9% respectively). The majority of Aboriginal people in the Northern Territory are very remote dwellers, while in Victoria and South Australia, the majority reside in major cities.

This marked variation in remoteness distribution across states and territories is illustrated in Table 1 (ABS 2007).

	Major Cities of Australia	Inner Regional Australia	Outer Regional Australia	Remote Australia	Very Remote Australia
State/Territory	%	%	%	%	%
New South Wales	43.3	33.2	18.4	4.3	0.8
Victoria	49.6	34.9	-	-	-
Queensland	28.1	20.6	29.1	8.6	13.7
South Australia	48.9	9.2	23.3	4.3	14.4
Western Australia	34.4	8	14.9	17.1	265.5
Tasmania(a)	-	53.9	-	-	-
Northern Territory(b)	-	-	20.2	23.4	56.4
Australian Capital Territory	100	-	-	-	-
Australia (c)	32.1	21.4	21.9	9.3	15.4

 Table 1. Proportional distribution of the Aboriginal and Torres Strait Islander population according to remoteness in each state and territory in 2006 (from ABS 2008a).

- nil or rounded to zero (including null cells)

(a) Hobart is classified as Inner Regional Australia.

(b) Darwin is classified as Outer Regional Australia.

(c) Excludes Other Territories.

#### 3.3 Short history on the collection of data and Indigenous identification

Most of the epidemiological understanding of the health status of Aboriginal and Torres Strait Islander peoples relies on routine health data collections held at each jurisdiction and nationally. It was not until 1973 that health ministers endorsed a policy of collecting national Indigenous health statistics. A report commissioned by the Commonwealth Department of Health titled, *Aboriginal health statistics in Australia: a survey and a plan* provided a blueprint to systematically collect Indigenous health statistics (Smith, 1978).

Broad consensus was reached in the mid-1980's on the importance of collecting Indigenous statistics in key collections, including those that recorded and registered births and deaths, maternal and perinatal separations and hospital record databases (Thomson, 2003).

Even today, Indigenous health statistics are often not available or are of too poor a quality to be used with confidence (Couzos & Murray 2003; Supramaniam *et al.* 2006), although the situation is improving. Western Australia, South Australia and Northern Territory have better recording of Indigenous status than other jurisdictions, while Tasmania, Victoria and the Australian Capital Territory generally have the worst. As a result, the reporting of national Indigenous mortality statistics is largely based on data collected from Western Australia, Northern Territory and South Australia for long term trends, but include data from New South Wales and Queensland for the current period. For hospital data the statistics are based on Queensland, Western Australia, South Australia and the Northern Territory for long term trends, but include New South Wales and Victoria for the current period.

The primary reason for unreliable Indigenous health data is the incomplete identification of Aboriginal and Torres Strait Islander peoples in national and jurisdiction data collections. It is clear from the working definition of just who is an Aboriginal and Torres Strait Islander person, that identification by front line health and admissions staff cannot be assumed as correct as many of these people make a judgement based solely on the appearance of the person before them.

A better method requires staff to ask the question, "Are you an Aboriginal or Torres Strait Islander person?" In many cases this question is either not asked, or staff simply refuse to ask (ABS 2002; Jackson Pulver *et al.* 2003).

This is why, as simple as it sounds, we can't get accurate measures of the magnitude of illness within the population, it is difficult to determine if mortality and morbidity rates are improving or worsening, or to what extent Aboriginal and Torres Strait Islander peoples are accessing mainstream health services, primary health care and other services such as general practice medicine.

Data quality and utility of collected information are also affected by small sample sizes and incident case numbers, unreasonably wide confidence intervals, reliance upon demographic and statistical data of limited accuracy and use of 'best estimates' where data are lacking.

Finally, only recently has attention been focused on the assessment and creation of metrics to measure factors such as social and emotional wellbeing, identity, empowerment and sense of belonging, cultural strength and recovery from and healing of intergenerational trauma – all factors which underlie many of the behavioural risks associated with mortality, morbidity and other health measures (AIHW 2009a; Haswell *et al.* 2010).

Without validated measures, it is not possible to include these data in the administrative picture of Aboriginal and Torres Strait Islander health. These are important measures, which will, over time,

add to our ability to better analyse and interpret Aboriginal and Torres Strait Islander health information and data.

#### **3.4 Population in recovery**

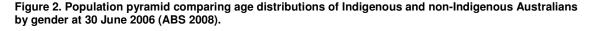
An estimated 750,000 to 1 million Aboriginal people lived on the Australian continent in 1788 (Franklin & White 1991; Madden & Jackson Pulver 2009). There is little evidence of widespread illness or disease in the Aboriginal and Torres Strait Islander population pre-colonisation (Kunitz 1990, 1994), and it is unlikely that Aboriginal and Torres Strait Islander people suffered from the lifestyle diseases that are endemic today (AIHW & ABS 2005).

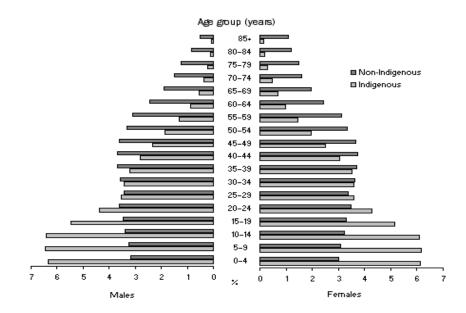
European settlement led to an enormous and rapid loss of life. Population fell to around 120,000 (plausible estimate) in the 1920s and 1930s (Madden & Jackson Pulver 2009). Today's Aboriginal and Torres Strait Islander population of over half a million people remains well below pre-settlement levels. The high rates of disease and fatalities in communities facilitated the fragmentation of every aspect of Aboriginal society (Reynolds 1989; Saggers & Gray 1991).

The depth of grief and loss that was experienced by Aboriginal people in those early days remains a persistent shadow in today's world - where factors that influence Aboriginal health relate directly to the history of colonisation and have been reinforced by subsequent government policies.

These policies included the confinement of Aboriginal people on mission settlements; dispossession from ancestral land (otherwise known as 'country'); banishment from country as punishment for misdemeanours and perceived wrongs and widespread policy of forcible removal of Aboriginal and Torres Strait Islander children (often referred to as the Stolen Generations) (Human Rights and Equal Opportunity Commission 1997).

Many other activities designed to facilitate assimilation of Aboriginal and Torres Strait Islander peoples into the colonised Australian world caused further disempowerment and disadvantage that continues to impact negatively on Australian society today.





Today the population pyramid of Aboriginal and Torres Strait Islander peoples (Figure 2) provides evidence of a population in recovery. Striking differences are seen.

Compared to the ageing non-Indigenous Australian population, young Aboriginal and Torres Strait Islander people represent a much larger proportion of the population. Median age is markedly low, fertility rates are higher and dependency ratios are higher among Indigenous Australians.

A significant move towards reconciliation and recovery for Australia was taken in February 2008 with the National Apology to Australia's Stolen Generations and their families and communities delivered by then Prime Minister Mr Kevin Rudd.

This apology is widely viewed as an essential step towards healing, not only of members of the Stolen Generations and their families, but to the broader Australian nation as a whole.

It must be remembered however, the apology was only one of 52 recommendations in the seminal *Bringing Them Home* report (Human Rights and Equal Opportunity Commission 1997) needed to achieve just reparation for the human rights abuses endured by the individuals, families and communities affected by these policies that resulted in the Stolen Generations.

We await movement on the substantial components of the remaining recommendations.

Since the 1970's, some of the strongest advocates for health equality for Aboriginal and Torres Strait Islander peoples have come from within the medical profession. For example, the Royal Australasian College of Physicians (1997) and the Australian Medical Association (2005) apologised for the medical profession's support and contribution to the policies of forced removal of Aboriginal and Torres Strait Islander children from their families.

Both organisations have adopted many pro-active and specifically targeted policies in Indigenous health. Both organisations are also active members of the Close the Gap coalition (see below).

#### 3.5 Health inequalities

Recently a high level of political and media attention, in Australia and overseas, has focused on the large gap in life expectancy between Aboriginal and Torres Strait Islander peoples and non-Indigenous Australians.

Up until recently, the life expectancy of Aboriginal and Torres Strait Islander people was estimated to be 17 years less than that of their non-Indigenous counterparts (AIHW & ABS 2008).

In 2009, the Australian Bureau of Statistics (ABS) changed its methodology and reported that in 2005-2007 Aboriginal and Torres Strait Islander life expectancy was estimated to be 11.5 years lower for Indigenous males and 9.7 years lower for Indigenous females (ABS 2009).

It must be noted that these changes in life expectancy reflect only a change in methodology in the derivation of these estimates.

While debate continues on the extent of the life expectancy gap (Madden *et al.* 2010), it is generally accepted that gaps between Indigenous and non-indigenous peoples in life expectancy (Ring & Brown, 2002; Bramley *et al.*, 2004) and the United Nations Human Development Index (Cooke *et al.* 2007) are unacceptably large in New Zealand, Canada and the United States, and are particularly egregious in Australia (Figure 3).

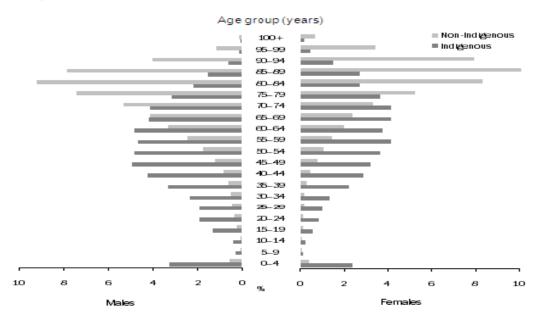


Figure 3. Proportion of deaths(a)(b), Indigenous status(c), age group(d) and sex - 2007-2009 (ABS 2010).

(a) Data are for NSW, Qld, SA, WA and the NT combined based on state or territory of usual residence. Victoria, Tasmania and the ACT excluded due to small numbers of registered Indigenous deaths.

(b) Non-Indigenous deaths calculated as the proportion of all non-Indigenous deaths registered.

Indigenous deaths calculated as the proportion of all Indigenous deaths registered. (c) Excludes deaths for which Indigenous status was not stated.

(d) Excludes deaths for which age at death was not stated.

Death rates among Aboriginal and Torres Strait Islander men and women are at least two and often many more times higher than those of the general population (AIHW & ABS 2003, 2005 & 2008). The disparities within some age groups are even more alarming. For example death rates of middle-aged Aboriginal and Torres Strait Islander people (35-44 and 45-54) are five to six times higher than those of non-indigenous counterparts (AIHW & ABS 2008).

Cardiovascular disease was the leading single cause of premature death overall accounting for one quarter of the total 12,573 years of life lost (YLL) due to disease and injury in 2008. Cancer caused 14% of YLL, followed by unintentional injuries (11%), intentional injuries (9%) and diabetes (7%) (AIHW & ABS 2008).

Aboriginal and Torres Strait Islander peoples are experiencing problems at higher incidence rates and at younger ages than the general population. Many continue to experience multiple risk factors for physical and mental illness, poor access to health services and environmental conditions that promote, rather than prevent, the spread of infectious disease especially among children.

Not surprisingly, chronic disease and suicide deaths amongst Aboriginal and Torres Strait Islander peoples have risen rapidly.

Practically absent two to three generations ago, chronic diseases, notably respiratory and circulatory diseases, endocrine, metabolic and nutritional diseases and cancer now cause the majority of excess deaths (AIHW & ABS 2008).

Health services have focused on transitioning their approach and pathways of care to emphasise long term management of chronic physical diseases for over a decade. This shift in focus, combined with

improved medications and drug therapy, has helped identify problems earlier and reduce complications and hospitalisation rates in some groups.

Less effort has been directed toward addressing the rapidly rising disability associated with mental disorders and alcohol and drug use (which are also chronic, recurring and debilitating) that is evident in the World Health Organisation's Burden of Disease studies (WHO 2009).

Aboriginal and Torres Strait Islander infant mortality and early childhood health have improved since the 1960s, but Aboriginal and Torres Strait Islander infants and children are still at significant relative disadvantage (Thomson & Ali 2003).

For Western Australia, South Australia and the Northern Territory, longer term trends suggest that the mortality rate for Aboriginal and Torres Strait Islander infants decreased by 47% between 1991 and 2006 compared to a reduction of 34% for non-Indigenous infants, and there was a significant closing of the gap. For the period 2002-2006 Indigenous infant mortality rates were three times the rate for non-indigenous infants (AHMAC 2008, p64).

Although in recent years chronic diseases have arisen to become the main focus of health promotion, prevention and early intervention efforts, the burden of chronic infectious diseases, while not often a cause of mortality, remains high (Couzos & Murray 1999; ABS & AIHW 2003, 2008).

The prevalence of bacterial and viral infections of the ear, respiratory and gastrointestinal tract, skin and mouth, combined with poor nutritional status, poses an enormous challenge to child growth, development, enjoyment of and participation in recreational activities and learning opportunities (ABS & AIHW 2003, 2008).

Infections are acquired early and experienced repeatedly in childhood because of the poor social and environmental conditions that persist in many contemporary Aboriginal and Torres Strait Islander settings (Pholeros *et al.* 1993; Couzos & Murray 1999; Bailie *et al.* 2010). These conditions include overcrowded housing, poor ventilation, inadequate clean water and appropriate sanitation, non-functioning health hardware including cooking and food storage facilities, functioning or appropriate, household wet areas (showers, kitchen sinks and laundry facilities) and typically substandard (high energy, low nutrient) and expensive food supply.

Put simply, treating infections without interrupting transmission leads to reinfection.

It is also acknowledged that unhealed loss and trauma linked to poor social and environmental health conditions underlie most of the above-described inequalities in health and illness (King, Smith & Gracey 2009).

Chronic, insufficiently addressed problems persist in environmental health and household infrastructure, drug and alcohol abuse, access to recreational facilities, effectiveness of services, and health education efforts that stymie prevention. These illnesses are recognised globally as markers of poverty and poor access to services (WHO 2002).

#### 3.6 Self-determination & Aboriginal Community Controlled Health Organisations

The need for a different health service delivery model that could better address the needs of Aboriginal and Torres Strait Islander Australians has been long and widely recognised and major progress has been achieved in making this a reality. From their beginnings in 1971, Aboriginal Community Controlled Health Services (ACCHO's) have been initiated, planned and managed by local Aboriginal and Torres Strait Islander communities, aiming to deliver high quality holistic and culturally appropriate health care. They are also known as Aboriginal Medical Services (AMS's) or Aboriginal Health Services (AHS's) (Armstrong 2006).

These came about because Aboriginal people - sick and tired of the failure of the Australian health care system to provide services that were appropriate, acceptable, affordable, accessible and participatory - founded the first AMS in Redfern in 1971.

This AMS provided Aboriginal people with a community-owned and culturally secure health care service that addressed their health needs within a holistic framework (Foley 1975).

A watershed in Aboriginal and Torres Strait Islander health and politics, its philosophy of community control and participation in the delivery of primary health care paved the way to alternative approaches to address health care issues (Bell *et al.* 2000).

Today, a national network of over 140 ACCHO's are operating across Australia in all states and territories and provided, about 1.6 million episodes of comprehensive primary health care in 2003/2004.

Like the first AMS, all subsequent ACCHO's are designed to create positive, culturally secure environments where Aboriginal and Torres Strait Islander peoples can receive comprehensive health care.

ACCHO's are pivotal to improvements in Aboriginal and Torres Strait Islander health. It is important to note that they did not spring up in isolation but arose out of the political struggle for Aboriginal and Torres Strait Islander self-determination. ACCHO's have developed state, national and, in some cases regional representative and resource bodies to improve policy formulation and resource allocation for their communities (Bell *et al.* 2000).

There is no generic Aboriginal Medical Service. ACCHO's are distinct, independent local health services owned and run by local Aboriginal and Torres Strait Islander communities according to their local needs and priorities. Each are planned and managed by a board elected from their local community. Board members are also elected to be members of State and Territory based organisations. These organisations are independent affiliates of the national body representing Aboriginal Community Controlled Health Services called NACCHO – the National Aboriginal Community Controlled Health Organisation. NACCHO is the umbrella organisation (or representative organisation) of community controlled health organisations (Bell *et al.* 2000).

By adopting a horizontal management structure, ACCHO's are controlled by their local Aboriginal and Torres Strait Islander community and can be advised by health professionals in their employ. This contrasts with hospitals and community health services that are part of a state-wide service structure with management hierarchies (Bell *et al.*2000).

Since their establishment, ACCHO's have demonstrated their ability to provide effective, appropriate, acceptable, affordable and accessible health services to Aboriginal and Torres Strait Islander people (NAHSWP 1989; Bell *et al.* 2000). Copeman (1980) and showed a rapid reduction in paediatric hospitalisations after the establishment of an ACCHS. Despite the expansion of ACCHO's, however, they are far from sufficient in size and resources to meet the enormous demand. It thus remains imperative that there be a capacity building plan for ACCHO's and also that Aboriginal and Torres Strait Islander people have equity of access to appropriate mainstream health care services and programs.

Aboriginal community-controlled and mainstream primary health care centres are at the forefront of Aboriginal and Torres Strait Islander health care in Australia and clearly have the potential to play a pivotal role in correcting health inequalities. Primary health care services deliver care across the spectrum, from health promotion, prevention and early detection to intervention, quality treatment and rehabilitation support.

A NACCHO Community Controlled Flow Chart follows as Figure 4, and is used with permission (see next page).



#### Local Level

Membership in NACCHO is opened to Aboriginal Community Controlled Services who meet the criteria as defined within the Articles of NACCHO. This membership is determined and validated by the NACCHO State and Territory Affiliate. The issues are determined from the local grass roots level and are fed upwards to the State Affiliates.



#### State Level

At the State members meeting, local Aboriginal Community Controlled members NACCHO nominate and select the representatives to be on the State Affiliate Executive and Board. From here, the flow of information is two pronged and has a downwards flow to the State members and an upwards flow to the NACCHO National board.

#### National Level

The 20 member NACCHO Board are elected from the State representatives at the State members meeting. They represent their States to present issues on Aboriginal health that effect them at a local level. The NACCHO Chairperson and Deputy Chairperson are separate to the State nominations as they are voted in every three years at the Members Annual General Meeting.

#### **3.7** Access to health services

Despite the crucial advances in health services, recognised inequalities persist across every measurable domain, including wellbeing, health status, education and social conditions. These inequalities continue to impact on how Aboriginal and Torres Strait Islander people access quality health care and how people pay for them.

Barriers to access to appropriate health care and to the nationally subscribed initiatives such as Medicare and the Pharmaceutical Benefits Scheme (PBS), are recognised as having a negative effect on Aboriginal and Torres Strait Islander health and wellbeing (NAHSWP 1989; RCIADIC 1991).

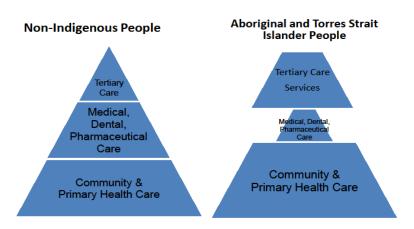
In 2002, Medicare established a system where people are able to voluntarily identify themselves as an Aboriginal and/or Torres Strait Islander person in the Medicare database.

As of 1 November 2010, 51.4% of the estimated Aboriginal and Torres Strait Islander population in Australia had identified themselves. Identification varies considerably across age groups, with a large number occurring at birth or early childhood, leading to an estimated 92.4% of children aged 0-4 being identified as compared to 41.8% of those aged 55 and over. (AIHW 2010).

John Deeble (2009), one of the architects of Medicare, recently observed that in comparison with service access of other Australians, Aboriginal and Torres Strait Islander people are:

- High users of public in-patient and out-patient hospital services, transport and public health;
- Low users of medical, pharmaceutical and dental services; and
- Very high users of community health services.

One way of conceptualising these differences is to recognise the obvious in the departure from the non-indigenous health service pyramid (Figure 5) (used with permission M Haswell 2010):



## Health Service Access in Australia

Information on use of primary health services by Aboriginal and Torres Strait Islander people comes from health surveys – such as the National Aboriginal and Torres Strait Islander Health Survey (NATSIHS) (ABS 2006) – and from data collected through the use of Medicare - yet these show different patterns of use.

The NATSIHS (ABS 2006) shows 10% higher self-reported visits to general practitioners or specialists by Aboriginal and Torres Strait Islander people compared to those of non-indigenous people. Self-reported rates for visits to casualty and hospital outpatient units were two and a half times as high for Aboriginal and Torres Strait Islander people. In contrast, self-reported visits for dental consultations were about 40% lower for Aboriginal and Torres Strait Islander people surveyed reported that at some time in the last 12 months they did not go to a doctor when needed; seven percent did not go to a hospital when needed, and 21% did not go to a dentist when needed.

The percentage reporting that they did not access care when needed was higher among Aboriginal and Torres Strait Islander people living in non-remote areas than those living in remote areas. In non-remote areas, cost is an important reason for not accessing care, whereas transport, distance and availability of services are significant factors limiting access in remote areas (AHMAC 2008).

Self-reported data however may be influenced by incomplete or inaccurate recall, telescoping and other issues and data from the Medicare system may therefore give a more accurate picture, although it too has its limitations.

Deeble (2009) recently compared data of people who identified as Aboriginal and Torres Strait Islander people and use private General Practitioner (GP) services under the Medicare system with those who use services provided through an Aboriginal Community Controlled Health Organisation (ACCHO). Deeble (2009) estimates that over 60% of the estimated Aboriginal and Torres Strait Islander population can be identified through these services.

He found that -

- On average, Indigenous people do not use primary care services as much as the non-indigenous population;
- In the VII (GP services) sample, for which we have full information, the proportion who ever see a doctor was lower and the frequency with which they visit doctors was less;
- The pattern is not uniform. The largest difference is in the care of children under five years of age and, to a lesser extent, in the five to 14 age group;
- For almost all other Indigenous people, age-specific usage rates are higher than for other Australians and the differences reflect the pattern of illness which leads to Aboriginal people dying at younger ages than non-indigenous people;
- For people aged 65 years and over, non-indigenous use is higher but very few Aboriginal people live that long;
- Indigenous use of specialist services through Medicare is very much lower than for nonindigenous people.

The overall impact of these differences is difficult to judge because of their heavy reliance on hospital-based specialist treatment outside the Medicare benefits system but it must have some influence on out-of-hospital care. Additionally, the 2006-07 health expenditure data referred to on Table 4 shows that while per capita expenditure on GP-type services is lower for Indigenous Australians, per capita expenditure on all primary care services is 29% higher for Indigenous Australians.

Furthermore this is believed to be a rapidly changing situation and further publications on this topic are anticipated.

Deeble (2009) concludes that, for data limited to the doctor services for which Medicare pays benefits and excluding the primary care delivered within hospital emergency services -

- On the criterion of equity of access, the present levels of primary care use by adults would not appear to be grossly unfair or inadequate;
- From 15 years of age, Indigenous use per person was between four percent and 28% higher than for other Australians;
- Amongst people who had voluntarily identified, the proportion who saw a doctor at all was lower, though not dramatically so, but those who did attend did so more frequently than the average;
- However, Indigenous usage never reached the level of non-indigenous people in the age groups when the non-Aboriginal death rate was highest (75 years and more);
- In both respects, the position was quite different for children with use significantly lower for all up to age 14, particularly those aged under five.

Data for the Aboriginal Community Controlled Health sector suggested an almost identical result, although in both the ACCHO's and the State-provided services, nurse care was a viable alternative. Despite this, the data clearly understate the overall volume of primary care delivered through the Aboriginal Community Controlled Health sector.

Deeble's main conclusion was that:

On access grounds alone, raising both the coverage of children and their service use would thus appear to be the first priority and, because of its preventive content, that should contribute to more equal outcomes as well.

Deeble (2009) also highlighted the much lower use of specialist services by Aboriginal and Torres Strait Islander people particularly given the high levels of complex chronic conditions.

Another way of considering inequalities in access is through examination of expenditure data. The most recent Expenditure Report by the Australian Institute of Health and Welfare 2009 (AIHW 2009b) showed that overall expenditure on Aboriginal and Torres Strait Islander people for health and high care residential aged care services was 1.2 times that of the population as a whole, but that level of expenditure was clearly inadequate given the much higher (two to three times higher) levels of illness in the Aboriginal and Torres Strait Islander population.

In critical areas, medical services and medications, expenditure was substantially lower for Aboriginal and Torres Strait Islander people than for the population as a whole (0.52 and 0.4 respectively).

The following table - (reproduced from Table 5.2 in AIHW 2009b) - shows lower expenditure for both primary and secondary/ tertiary services for medical, dental, and other professional services including medications.

Levels of expenditure on hospitals were higher but probably lower than required for level of need.

The effect of these shortfalls in access to services is particularly evident for the major cause of death and the major contributor to the life expectancy gap – coronary heart disease (CHD), where despite higher illness levels there are *lower* rates of therapeutic interventions.

Key findings of a report on the health status and treatment of Aboriginal and Torres Strait Islander people with coronary heart disease showed that Aboriginal and Torres Strait Islander Australians had three times the rate of major coronary events such as heart attack 1.4 times the out-of-hospital death rate from CHD and more than twice the in-hospital CHD death rate, However, Aboriginal and Torres Strait Islander CHD patients had a 40% lower rate of being investigated by angiography, a 40% lower rate of coronary angioplasty or stent procedures and a 20% lower rate of coronary bypass surgery than non-indigenous patients (AIHW 2006).

	Primary expenditure (\$ per person)			Secondary/tertiary expenditure (\$ per person)		
	Indigenous	Non- indigenous	Ratio		Non- indigenous	Ratio
Area of expenditure				Indigenous		
Total hospital services	325.6	211.1	1.54	2,512.7	1,443.5	1.74
Admitted patient services				2,199.4	1,302.3	1.69
Non-admitted patient services	325.6	211.1	1.54	313.3	141.2	2.22
Patient transport	110.9	16.4	6.75	110.9	65.7	1.69
Medical services	341.5	524.7	0.65	81.1	287.9	0.28
Dental services	139.5	278.8	0.50			
Other professional services	21.4	79.8	0.27	21.4	79.8	0.27
Community health services	1,186.7	182.0	6.52			
Public health	212.2	83.5	2.54			
Medications	224.4	508.5	0.44	23.1	104.5	0.22
Aids and appliances	36.5	122.4	0.30	3.8	25.2	0.15
Total health <sup>(a)</sup>	2,598.7	2,007.3	1.29	2,753.0	2,006.5	1.37
High care residential aged care				81.8	373.6	0.22
Total health and high care residential aged care <sup>(a)</sup>	2,598.7	2,007.3	1.29	2,834.8	2,380.2	1.19

Table 4: Expenditure per person on primary and secondary/tertiary health and high care residential aged care services for Aboriginal and Torres Strait Islander and non-Indigenous people, 2006–07 (Table 5.2 from AIHW 2009b).

(a) Excludes expenditure on research, health administration and other health services. Source: AIHW health expenditure database.

In 2002–2003 Aboriginal and Torres Strait Islander people with CHD were less likely to undergo a coronary procedure across all levels of complexity. The largest difference in procedure rates between Aboriginal and Torres Strait Islander Australians and other Australians occurred in the least complex groups (no or 1–2 comorbidities present). In these groups, Aboriginal and Torres Strait Islander Australians were just over half as likely to have a coronary procedure (rate ratio 0.6).

As indicated below, in response to these continuing inequalities in outcomes and access to health services, the Australian government and its state and territory counterparts have recently instituted a series of policy reforms and much higher levels of expenditure for Aboriginal and Torres Strait Islander people for health and other services.

#### 3.8 What do these service access patterns mean?

At first glance, the large quantity of community health service use by Aboriginal and Torres Strait Islander Australians, combined with a lower use of medical and pharmaceutical (mid-level) care could seem to be a positive finding.

The high use of Aboriginal Community Controlled and government community health services no doubt reflects the presence of these services, particularly in remote areas and the cultural accessibility of ACCHO's in particularly in urban areas. However it also probably reflects very high repeated use brought about by the limited sustainable impact that health care can have in the face of poor environmental and social health conditions in which many Aboriginal and Torres Strait Islander Australians live.

It may also reflect a relatively low level of completed referrals when needed.

Statistics demonstrate that the low level of medical/dental/pharmaceutical care is anything but an indication of a low level of need for secondary care. In fact, the high hospitalisation and mortality rates confirm an extremely high level of unmet need which often escalates to crisis care.

In a submission to the House of Representatives Standing Committee on Family and Community Affairs (2008), the National Aboriginal Community-Controlled Health Organisations identified the barriers impeding Aboriginal and Torres Strait Islander people's access to health services. These can be summarised as:

- economic barriers many Aboriginal people, who experience life-long economic disadvantage, cannot afford doctor and PBS co-payments and invisible costs such as having a home phone to make appointments or enquiries or travel costs.
- physical or geographical barriers many communities in rural and remote areas simply do not have local access to GPs, specialists, pharmacies and hospitals. Even for communities on the fringe of major urban concentrations, ready access to practices that bulk-bill, and a range of specialist and allied health services, may be severely limited. Remote area primary health centres, which provide services to over one quarter of Aboriginal and Torres Strait Islander population (compared to just 2.3% of non-indigenous Australians) face severe distance challenges in the provision of high quality care, especially given the complex presentations they are faced with as a result of poor living conditions.
- administrative barriers when people are struggling economically, or when their lives are in chaos connected to illness, unemployment, lack of education, incarceration of a family member, or other disadvantage, they may neither procure, nor carry current Medicare and health care cards.
- cultural barriers a simple, but widespread, example would be the reluctance of many to enter an unfamiliar (and possibly unwelcoming) non-Aboriginal service.

Other key reasons for poor utilisation of mainstream health services by Aboriginal people include a lack of GP outreach clinics; a lack of understanding among some GP's of Aboriginal culture; an insufficient number of GPs bulk-billing; and the feeling of being unwelcome in some General Practices (Andrews *et al.* 2002).

It is important to stress, however, that there are also many positive encounters between nonindigenous health professionals and Aboriginal people. The nature of clinical encounters is highly complex and success depends on a range of critical communication and personal factors. A serious problem facing Aboriginal-focused primary health care services is workforce recruitment and retention. This can lead to services resorting to a constant stream of agency staff that is not committed to developing long term relationships with clients or service improvement.

Poor communication and internet access, substandard environmental health infrastructure, severe housing shortages and maintenance problems, extreme weather conditions in some settings that regularly prevent inward and outward movement, minimal economic opportunity, public transport and food and goods supply, continue to plague these services (Arkles *et al.* 2006).

Access to General Practitioners, specialist doctors, dental services and nurses and sophisticated equipment and treatments is especially limited, particularly for those without private transport. Airplane-based medical and evacuation organisations help to fill the gap in emergency and some core health services in very remote areas.

Some community health services have made significant advances in enhancing cultural safety, with strong community engagement and consultation processes, an inviting environment, welcoming families, displaying of Aboriginal art and culture and recruiting Aboriginal staff (Eckermann *et al.* 2010; Hayman 2010).

Significantly lower rates of chronic disease and mortality have been observed in the remote and decentralised communities of the Utopia region, where services are located outside of individual communities (Rowley *et al.* 2008). Similar positive links between health and remoteness are also seen in the Torres Strait Islands, outstation settings and in some remote Western Australia and Northern Territory settings where ways of life have been less disrupted and cultural activities like bush-tucker and caring for country practices remain strong in everyday life.

This demonstrates that appropriately designed services can overcome remoteness issues and become part of the positive benefit of living away from urban centres. One essential ingredient in this success appears to be strong, respectful relationships within and between communities and their services.

Numerous reports now acknowledge the importance of providing health services for Aboriginal and Torres Strait Islander people that are culturally secure and free from all forms of discrimination. Failure to do this is in violation of basic human rights and a risk factor for poor health and wellbeing (NAHSWP 1989; RCIADIC 1991; HREOC 1997; Jackson Pulver & Fitzpatrick 2004; Aboriginal and Torres Strait Islander Social Justice Commissioner 2005).

#### **3.9 Major policy actions and solutions**

In 2005, the Social Justice Commissioner, Dr Tom Calma, asked all Australian state and territory governments to commit to achieving equality in health and life expectancy within a generation. Dr Calma and his Social Justice Report started the movement that is today seen as the "Close the Gap campaign".

Over 40 Indigenous and non-indigenous organisations and 130,000-plus Australian people have signed on and agreed to participate in the campaign.

The *Close the Gap Statement of Intent* was developed by the members of Close the Gap Campaign for Indigenous Health Equality Steering Committee (Committee).

The Committee was led by the Aboriginal and Torres Strait Islander Social Justice Commissioner of the Australian Human Rights Commission, the National Aboriginal Community Controlled Health Organisation, the Australian Indigenous Doctors' Association, the Congress of Aboriginal and Torres Strait Islander Nurses; the Indigenous Dentists' Association of Australia; Indigenous Allied Health Australia Inc., the National Aboriginal and Torres Strait Islander Health Workers' Association; and the Australian Indigenous Psychologists' Association in collaboration with the Australian General Practice Network; the Aboriginal Health and Medical Research Council; the Australian Medical Association; Australians for Native Title and Reconciliation; the Australian Peak Nursing and Midwifery Forum; Bullana - the Poche Centre for Indigenous Health; The Fred Hollows Foundation; Heart Foundation Australia; the Menzies School of Health Research; Oxfam Australia; Palliative Care Australia; the Royal Australasian College of Physicians; and the Royal Australian College of General Practitioners.

This Committee hosted the National Indigenous Health Equality Summit in March 2008 and culminated in the then Prime Minister, Kevin Rudd MP, the Minister for Health and Ageing, Nicola Roxon MP, the Minister for Families, Housing, Community Services and Indigenous Affairs, Jenny Macklin MP, and the then federal Opposition Leader, Dr Brendan Nelson MP, signing the *Statement of Intent* with Indigenous health leaders, peak bodies and other stakeholders.

In addition to two National Aboriginal and Torres Strait Island health summits, key outputs from the Close the Gap Coalition include a comprehensive set of targets to inform a national plan of action (Human Rights and Equal Opportunity Commission, 2008), a Shadow progress report (Close the Gap Steering Committee 2010a) and a policy paper on Partnership (Close the Gap Steering Committee 2010b).

According to the Close the Gap Coalition, two significant planks of the campaign are yet to be achieved:

- a <u>new partnership</u> between Indigenous Australians and their representatives and Australian governments to underpin the national effort to achieve Indigenous health equality;
- the development of an appropriately funded, long-term comprehensive national <u>plan of action</u> to achieve Indigenous health equality.

The Close the Gap campaign is about human rights. Internationally, the Close the Gap campaign has contributed to many reports, including the World Health Organisation's Commission on the Social Determinants of Health's final report, *Closing the Gap in a generation: Health equity through action on the social determinants of health (2008).* 

The last few years have seen a fundamental shift in government policy towards Aboriginal and Torres Strait Islander people, influenced at least partially by the Close the Gap campaign.

At the Council of Australian Government (COAG) on 20 December 2007, all Australian governments agreed to 'a partnership between all levels of government to work with Indigenous communities to achieve the target of closing the gap on Indigenous disadvantage'.

The specific targets are:

- Close the gap in life expectancy between Indigenous and non-indigenous Australians within a generation
- Halve the gap in mortality rates for Indigenous children under five by 2018
- Ensure access to early childhood education for all Indigenous four year olds in remote communities by 2013
- Halve the gap in reading, writing and numeracy achievement for Indigenous children by 2018
- Halve the gap for Indigenous students in Year 12 or equivalent attainment rates by 2020
- Halve the gap in employment outcomes between Indigenous and non-indigenous Australians by 2018

#### Figure 6: Close the Gap Statement of Intent used with permission.

# CLOSETHEGAP

Indigenous Health Equality Summit

#### CANBERRA, MARCH 20, 2008

#### PREAMBLE

Our challenge for the future is to embrace a new partnership between Indigenous and non-Indigenous Australians. The core of this partnership for the future is closing the gap between Indigenous and non-Indigenous Australians on life expectancy, educational achievement and employment opportunities. This new partnership on closing the gap will set concrete targets for the future: within a decade to halve the widening gap in literacy, numeracy and employment outcomes and opportunities for Indigenous children within a decade to halve the appalling gap in intant mortality rates between indigenous and non-indigenous children and, within a generation, to close the equally appalling 17-year life gap between Indigenous and non-indigenous when it comes to overall life expectancy.

Prime Minister Kevin Rudd, Apology to Australia's Indigenous Peoples, 13 February 2008

This is a statement of intent – between the Government of Australia and the Aboriginal and Torres Strait Islander Peoples of Australia, supported by non-Indigenous Australians and Aboriginal and Torres Strait Islander and non-Indigenous health organizations – to work together to achieve equality in health status and life expectancy between Aboriginal and Torres Strait Islander peoples and non-Indigenous Australians by year 2030.

We share a determination to close the fundamental divide between the health outcomes and life expectancy of the Aboriginal and Torres Strait Islander peoples of Australia and non-Indigenous Australians.

We are committed to ensuring that Aboriginal and Torres Strait Islander peoples have equal life chances to all other Australians.

We are committed to working towards ensuring Aboriginal and Torres Strait Islander peoples have access to health services that are equal in standard to those enjoyed by other Australians and enjoy living conditions that support their social, emotional and cultural well-being.

We recognise that specific measures are needed to improve Aboriginal and Torres Strait Islander peoples' access to health services. Crucial to ensuring equal access to health services is ensuring that Aboriginal and Torres Strait Islander peoples are actively involved in the design, delivery and control of these services.

#### ACCORDINGLY WE COMMIT:

- To developing a comprehensive, long-term plan of action, that is targeted to need, evidence-based and capable of addressing the existing inequities in health services, in order to achieve equality of health status and life expectancy between Aboriginal and Torres Strait Islander peoples and non-indigenous Australians by 2030.
- To ensuring primary health care services and health infrastructure for Aboriginal and Torres Strait Islander peoples which are capable of bridging the gaps in health standards by 2018.
- To ensuring the full participation of Aboriginal and Torres Strait Islander peoples and their representative bodies in all aspects of addressing their health
   needs
- To working collectively to systematically address the social determinants that impact on achieving health equality for Aboriginal and Torres Strait Islander peoples.
- To building on the evidence base and supporting what works in Aboriginal and Torres Strait Islander health, and relevant international experience.
- To supporting and developing Aboriginal and Torres Strait Islander community controlled health services in urban, rural and remote areas in order to achieve lasting improvements in Aboriginal and Torres Strait Islander health and wellbeing.
- To achieving improved access to, and outcomes from, mainstream services for Aboriginal and Torres Strait Islander peoples.
- To respect and promote the rights of Aboriginal and Torres Strait Islander peoples, including by ensuring that health services are available, appropriate, accessible, affordable and good quality.
- To measure, monitor, and report on our joint efforts, in accordance with benchmarks and targets, to ensure that we are progressively realising our shared ambitions.

SIGNATURES <u>Herrosentative of the Australian Government</u>	National Aboriginal Community Controlled Health Organisation
Congress of Aboriginal and Torres Strait Islander Nurses	Next Harrier Australian Indigenous Doctors Association
Indigenous Dentists Association of Australia	Aboriginal and Torres Strait Islander Social Justice Commissioner. Human Rights and Equal Opportunity Commission

On February 13, 2008, the Prime Minister offered in Parliament an Apology to Australia's Indigenous peoples.

This was followed by a National Indigenous Health Equality Summit held in Canberra from 18 - 20 March 2008 which culminated in the signing of the Statement of Intent to Close the Gap by the Prime Minister, Leader of the Opposition, Government Ministers, heads of Aboriginal and mainstream

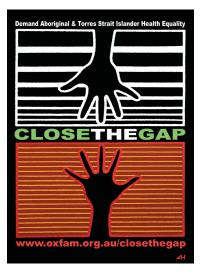
health organisations and other key stakeholders, as well as numerous states and territories. The Statement of Intent committed the signatories:

- To develop a comprehensive, long-term plan of action, that is targeted to need, evidencebased and capable of addressing the existing inequities in health services, in order to achieve equality of health status and life expectancy between Aboriginal and Torres Strait Islander peoples and non-indigenous Australians by 2030.
- To ensure that primary health care services and health infrastructure for Aboriginal and Torres Strait Islander peoples are capable of bridging the gap in health status by 2018.
- To ensure that there is full participation of Aboriginal and Torres Strait Islander peoples and their representative bodies in all aspects of addressing their health needs.
- To work collectively to systematically address the social determinants that impact on achieving health equality for Aboriginal and Torres Strait Islander peoples.
- To build on the evidence base and supporting what works in Aboriginal and Torres Strait Islander health, and relevant international experience.
- To support and develop Aboriginal and Torres Strait Islander community-controlled health services in urban, rural and remote areas in order to achieve lasting improvements in Aboriginal and Torres Strait Islander health and wellbeing.
- To achieve improved access to, and outcomes from, mainstream services for Aboriginal and Torres Strait Islander peoples.
- To respect and promote the rights of Aboriginal and Torres Strait Islander peoples, including by ensuring that health services are available, appropriate, accessible, affordable, and of good quality.
- To measure, monitor, and report on our joint efforts, in accordance with benchmarks and targets, to ensure that we are progressively realising our shared ambitions.

The year 2008 also saw a significant injection of funding into the effort, with \$1.6 billion committed over four years. Tom Calma stated that –

this is a watershed moment in our efforts to close the life expectancy gap. Never have we seen such concentrated and determined effort from all governments working together. We applaud the emphasis from COAG on preventative health and access to primary care.

Figure 6: Close the Gap campaign poster - used with permission. Image by Adam Hill



The Australian Government, in collaboration with state and territory governments, aims to improve access for Aboriginal and Torres Strait Islander peoples to effective health care services essential to improving health and life expectancy, and reducing child mortality (Council of Australian Governments 2007).

This supports the Government's broader commitments to close the gap between Aboriginal and Torres Strait Islander peoples and non-indigenous Australians in health, education and employment.

Two of these targets relate directly to the Health and Ageing Portfolio: to close the gap in life expectancy within a generation; and to halve the gap in mortality rates for Indigenous children under five years of age within a decade.

New funded programs aim to contribute to closing the gap in life expectancy and halving the gap in mortality rates for Indigenous children under five years of age within a decade through:

- preventing and managing chronic disease;
- improving access to maternal and child health services;
- improving access to effective primary health care and substance use services;
- improving social and emotional wellbeing services; and
- improving workforce capacity.

# 3.10 Council of Australian Governments (COAG) action

COAG is the forum where all Australian governments, national, state and territory, come together and formulate policy and action. Core to the Government's commitment to closing the gap is the \$4.6 billion COAG funding around national partnerships, including:

- An additional \$1.94 billion for remote Indigenous housing, taking total investment to \$5.5 billion over 10 years
- \$1.57 billion for Indigenous health over four years
- \$564.4 million for early childhood development over six years
- \$228.9 million for Indigenous economic development over five years
- \$291.2 million to improve remote service delivery over six years

The Australian Government's annual expenditure on Indigenous specific health programs has increased 57% since 2007–08 to almost \$1 billion (Australian Government 2008). The Prime Minister also committed to providing annual progress reports at the opening of Parliament each year.

The 2010 Report (Australian Government & Rudd, 2010) highlighted the fact that the National Apology to the Stolen Generations provided an opportunity for a shared future and a fresh beginning for all Australians, and cited three principles:

- A clear acknowledgement and recognition of previous wrongdoing and failed policies;
- A practical commitment to closing the gap between Indigenous and non-indigenous Australians, setting specific targets and working in partnerships based on mutual responsibility and respect; and
- A commitment to transparency and accountability in measuring progress over time.

Acknowledgement of the policy shift is also indicated in that report where it is recognised, reported verbatim below,

"For decades, successive Commonwealth, state and territory governments have not faced up to taking responsibility for inadequate housing and services in remote communities. They have also provided inadequate health, education and community services to many Indigenous people in regional and urban areas".

The Government's commitment to closing the gap is driven by three policy imperatives:

- Address decades of under-investment in services, infrastructure and governance;
- Re-build the positive social norms that underpin daily routines like going to school and work, and which foster community-led solutions; and,
- Re-set the relationship between Indigenous and non-indigenous Australians.

The Australian Government also committed \$46.4 million (over four years) to improve the collection and reporting of Aboriginal and Torres Strait Islander people's health and other data by national agencies.

Part of this money was allocated to the creation of a *Closing the Gap Clearing House* which will provide peer-evaluated information on what has worked in the context of closing the gap.

# **3.11 Australian Conclusions**

Evaluation of health policy is complex – as there are many intervening variables between the writing and adoption of a policy, its implementation and the way that it plays out as an enhancement of people's lives and health.

We require adequate data measuring the intervening steps between where we are now and where we want to be to ensure that we stay on track towards the well-defined goals.

Ultimately, policies will be judged by their impact and their ability to achieve and demonstrate outcomes.

Aboriginal and Torres Strait Islander people have been subject to many Australian national and state government policies over the last two centuries; most or all have probably reflected "good intentions" of the times.

However, many have caused harm while a few have achieved positive, measurable gain.

Since the National Apology, the finely detailed Close the Gap initiative and the substantial funding attached, there has been renewed optimism in Australia that things are going to change for the better.

As we proceed, there must be a committed drive towards data collection that yields better quality and more reliable data. The official statistical agencies need to continue their efforts to improve data and to reconcile any differences that arise, so that policy development can be based on consistent, best practice estimates.

This should include the measurement of aspects of health that Aboriginal and Torres Strait Islander people deeply value, such as healing, social and emotional wellbeing and empowerment. Consistent improvement in these currently poorly measured areas will be crucial for the sustainability of health advancement.

We also need to be mindful of the discouraging artefacts of data improvement, i.e. correcting current underestimations may temporarily suggest that things are getting worse rather than better.

This, however, is an acceptable price for getting an accurate picture that we can truly rely on to monitor progress and guide direction and decision making – knowing what works and what doesn't in promoting change.

There is no substitute for excellent policy, grounded in true engagement and voice of stakeholders and communities, strengthened by solid understanding of practicalities and needs on the ground, supported with adequate resources, and implemented within solid partnerships with commitment to inter-sectoral collaboration frameworks.

Effective use of money and the outcomes that are achieved will depend on the extent to which Australia is able to overcome these major challenges in policy and practice.

At this point in time, there is a sense that, after a long period of inadequate response to continuing disadvantage, the new policies are widely welcomed. There remains controversy about the method of implementation and the absence of a comprehensive long-term action plan to which the signatories committed in the Statement of Intent.

Nonetheless, the Council of Australian Governments' National Integrated Strategy for Closing the Gap in Indigenous Disadvantage and the National Indigenous Reform Agreement do represent a comprehensive national plan for closing the gap in Indigenous disadvantage.

There remains the need for a new partnership between Indigenous Australians and their representatives and Australian governments to underpin the national effort to achieve Indigenous health equality.

These controversies and questions must be addressed as they are warning bells to ensure that we keep on track and don't fall into the same traps as previous unsuccessful policies and programs. The difference between success and failure is likely to be captured by the extent to which the current activity is achieving empowerment of Aboriginal and Torres Strait Islander people to gain control over their everyday lives, health and situations.

Only through community empowerment and real partnership with government can we ensure the ongoing building of capacity within Aboriginal Community-controlled health services and of mainstream health services to meet the needs of Indigenous Australians.

These core issues must be considered essential for the sustainability of health gains to be achieved and maintained into the future.

## Acknowledgements

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## **IV.** Canada

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## **4.1 Introduction**

Aboriginal peoples in Canada are comprised of three politically and culturally distinct groups – Indians (First Nations), Inuit and Métis – as recognized by the *Constitution Act* of 1982. According to the 2006 Census (Statistics Canada January 2008), there are currently 1,172,785 Aboriginal peoples in Canada that represents four per cent of the Canadian population. Of the total Aboriginal population, 698, 025 are First Nations, 389,780 are Métis, and 50,480 are Inuit (Statistics Canada 2008). Aboriginal peoples are the fastest growing and youngest populations in Canada with a 45 per cent increase in Aboriginal population growth from 1996 to 2006 compared to 8 per cent increase for the non-Aboriginal population (Statistics Canada, 2006 Census January 2008). Furthermore, in 2006, the median age of the total Aboriginal population was 27 years compared to 40 years for the non-Aboriginal population (Statistics Canada 2008).

It is important to note that according to the *British North America Act* of 1867 (now the *Constitution Act* 1982), the federal government was given responsibility for "Indians and lands reserved for Indians" (Section 91 [24]), while provincial/territorial governments were given the responsibility for both health and education off-reserve. This division of jurisdictions has created gaps in accessing health services and inequities across systems.

In Canada, Aboriginal peoples disproportionately experience disparities related to the social determinants of health. Aboriginal people were almost four times more likely to live in crowded homes compared to the non-Aboriginal population and they were three times more likely to live in a home in need of major repairs. In 2006, of the Aboriginal population aged 25 to 64, 34 per cent had not completed high school compared to 15 per cent of the non-Aboriginal population. Furthermore, eight per cent of the Aboriginal population had a university degree compared to 23 per cent of the non-Aboriginal population. Unemployment rates for the Aboriginal population aged 15 and older were five times higher than the non-Aboriginal population. (Statistics Canada, 2008). "At the root of these disparities are historic and ongoing impacts of European colonization, which directly and indirectly impact health. Approximately one-third of Aboriginal children live in low-income families and food-security is a serious concern". (Smylie J & Adomako P 2009, *Indigenous Children's Health Report: Health assessment in action*, Keenan Research Centre, p.4).

A key to addressing disparities such as these is to ensure universal coverage of adequate health services. Routine monitoring and evaluation of health systems and gaps are necessary to ensure that this coverage is achieved. As First Nations, Inuit, and Métis are distinct populations who face unique and diverse barriers within the health system, this paper utilizes a population specific approach to explore and make key recommendations on the complex issues related to data, inequities, policies, and monitoring and evaluation. However, given its limited scope this paper simply highlights some issues that are of great concern to each population.

## **4.2 FIRST NATIONS**

First Nations are tribally and linguistically diverse peoples who live throughout all geographic regions of Canada. The term "First Nations people" includes Status and Non-Status "Indians": a "Status" or "Registered Indian" refers to one who is accorded certain rights under the federal *Indian Act* (Indian and Northern Affairs Canada, 2010b). "Non-Status Indians" identify as First Nations but are not officially recognized under the *Indian Act* (Indian and Northern Affairs Canada, 2010b). "Non-Status Indians" identify as First Nations but are not officially recognized under the *Indian Act* (Indian and Northern Affairs Canada, 2002, p. 11). While the term Indian is used in this Act, the term First Nations is commonly used by the people. In 2006, 60% of the Aboriginal population in Canada identified as First Nations, and of these 81% were "Registered Indians" (Statistics Canada 2009, p. 1). The First Nations population grew by 29% between 1996 and 2006 (Statistics Canada 2006 Census, January 2008). Post-contact, First Nations were relegated to a tract of land, called a "reserve". In 2006, 615 First Nations on-reserve communities were recognized by Indian and Northern Affairs Canada. Currently, 40% of First Nations people live on-reserve, while the remainder live off-reserve in urban or rural settings (Statistics Canada, 2008 p. 41).

# **First Nations Data Sources**

First Nations data sources include the following:

- The Indian Register: official record of Registered Indians (Indian and Northern Affairs Canada, 2010a).
- The Census: amongst the general population of Canada, only 1 in 5 households receive the long-form version which permits them to indicate Aboriginal identity; however, all who dwell on-reserve receive it (indeed, this is the only means through which the Census can inquire about individuals' Aboriginal identity and status). All other households in Canada (4 out of 5) receive the short-form which affords no opportunity to indicate Aboriginal identity (Statistics Canada 2007, p. 5). It should also be noted that in 2006, 22 reserves did not participate in the Census (Statistics Canada 2007, p. 5).
- Other surveys: the Aboriginal Peoples Survey and Aboriginal Children's Survey and the Canadian Community Health Survey (which collect off-reserve data), and the First Nations Regional Longitudinal Health Survey (usually referred to simply as the RHS, which collects on-reserve data). The RHS is a national survey under First Nations control (First Nations Centre 2007, p. 2).
- Vital statistics are collected by the provinces/territories and may not include an Aboriginal identifier.

The First Nation population counts from the Indian register may not be consistent with Census or Band membership data. The key issues for First Nations are incomplete and fragmented data which prohibits monitoring health for all First Nations. Surveys include different groups of First Nations based on Status or geography (for example, on-reserve or off-reserve) that cannot necessarily be combined and data is collected and maintained by separate and mutually exclusive systems.

## Inequalities

Health Canada funds the delivery of primary health care services on-reserve, Non-Insured Health Benefits for status First Nations and some special programs for all First Nations. The level of primary care on reserves is less than that provided to Canadians through the provincial/territorial health care systems (Lavoie 2004). The Non-Insured Health Benefits Program provides coverage for some drugs, medical transportation, dental, medical supplies and equipment, vision and crisis counseling services to status Indians (First Nations), but the level and type of coverage varies according to the discretion of the regional Health Canada offices (Assembly of First Nations 2005). Due to inequalities in the *Indian Act* (Parliament of Canada 2010), some First Nations women do not have the same status rights as men and therefore are not eligible for the same federally funded services.

First Nations living in the territories have less access to enhanced program funding from Health Canada compared to the provinces due to the interpretation of transfer and self-government agreements (Lemchuk-Favel 2007). All First Nations are eligible for provincial health care services delivered off reserve, but health service may be denied or delayed due to jurisdictional disputes regarding which level of government should pay for certain services for Status Indians (UNICEF Canada 2010).

First Nations experience disproportionately high rates of tuberculosis, diabetes, injuries, suicide and cardio-vascular disease, although this is not necessarily the case in all communities. There is a high level of diversity among different nations and communities. (Reading 2009; Assembly of First Nations/FNIGC 2007; Health Canada 2005a, 2009). In addition to health outcomes, First Nations also experience disparities in the heath determinants. Based on the Community Well-being Index, a composite measure that includes education, income, labour force participation/employment and housing indicators, First Nations communities lag far behind compared to the general Canadian population on all indicators, and have experienced a decline in housing conditions from 2001 to 2006 (INAC April 2010). Nearly one-third of First Nations communities consider their water unsafe to drink and from 40% to 49% of homes have mould or mildew (First Nations Centre 2005).

## Policy

In the past, Health Canada set policies in a top-on-down fashion, but has since conceded that "no two [Indian] bands are exactly alike, what is good for one band is not necessarily...good for another," and therefore seeks "to achieve an increasing level of health in Indian communities, generated and maintained by the Indian communities themselves" (Health Canada 2005b). Accordingly, it now encourages individual First Nations to negotiate direct control over their own health care with the ultimate aim of devolving all existing health resources to First Nation control (Health Canada 2005b). The Federal Government has also struck tripartite agreements with First Nations and the governments of British Columbia, Saskatchewan and Manitoba.

Health Canada provides the Aboriginal Health Transition Fund (AHTF) to: adapt and integrate health services between federal and provincial/territorial health systems to better meet First Nations needs; and increase First Nations participation in the design, delivery, and evaluation of health programs and services (Aboriginal Canada Portal 2010). Funding for the AHTF will cease by March 2011. British Columbia, Saskatchewan, Manitoba, and Ontario work in collaboration with their provincial

government to bring about positive change in First Nations health. This work ranges from serving in an advisory capacity to acting as full partners in the creation and implementation of effective community health strategies.

## **Monitoring and Evaluation**

First Nations communities face a 3% funding cap on such critical services as nursing, medications, and medical transportation (Assembly of First Nations 2007). Based on trends and disparities in health outcomes, risk factors, social determinants, health services and funding levels for First Nations, Canada is losing ground in addressing health and wellness needs. Growth in funding to the provinces/territories surpasses the funding caps that are placed on primary health services on-reserve. The First Nations Action Plan for Non-Insured Health Benefits (Assembly of First Nations 2005) provides recommendations for targets on levels of spending.

The Assembly of First Nations report *Development of a First Nations Health Reporting Framework* (2006) outlines principles, indicators and outstanding issues in the creation of a First Nations information system which is part of the broader First Nations Framework in the 2005 Blueprint on Aboriginal Health (Kelowna Agreement) and builds on the Aboriginal Health Reporting Framework identified in the 2003 Accord on Health Care Renewal. The Blueprint sets the goal of measurable improvements in health outcomes by 2015 with the establishment of a First Nations Health Reporting Framework (FNHRF) (set to begin reporting in 2010-2011) to monitor progress. Funding support and community level capacity building are required to realize this plan.

Information on Government spending, health and social outcomes, infrastructure and health transfer are publicly available, but not easily collated due to multiple sites of collection and lack of coordinated reporting. Government indicators are macro-level and do not include relevant community level indicators for First Nations.

# **4.3 INUIT**

The Inuit Nunangat, or homeland, stretches from the western Northwest Territories (Inuvialuit region), through Nunavut, northern Quebec (Nunavik) and Labrador (Nunatsiavut), and covers approximately 40% of Canada's land mass (Inuit Tapiriit Kanatami and Inuit Circumpolar Council Canada 2007). Of the total population of 50,480, 78% of Inuit live in the Nunangat, and the other 22% live primarily in five southern urban areas and two northern hub communities (Inuit Tapiriit Kanatami 2008a). Land claims have been settled in all four regions, and the three land claim organizations and one Inuit regional government are active in the areas of health and social development. Inuit have the youngest population of the three Aboriginal groups, with a median age of 22 years. The Inuit population grew by 26% between 1996 and 2006 (Statistics Canada, 2006 Census January 2008).

## **Inuit Data Sources**

The first comprehensive survey of Inuit health was conducted in the Inuvialuit Region, Nunavut, and Nunatsiavut communities in 2007-08, similar to research in Nunavik in 2004. The Inuit Health Survey included household surveys, as well as clinical tests with adults and children; results are currently being released. Funding for the survey was one-time only. As well, the Canadian Census, the

Aboriginal Peoples Survey and the Aboriginal Children's Survey, (both post-census surveys with good coverage of Inuit, at least in Northern areas) provide basic information on health and social conditions, health determinants, etc. Three 5 year cycles of the surveys have been completed, but ongoing funding is not guaranteed. Key data issues for Inuit are: the lack of funding and infrastructure to conduct their own population-level survey research; confidentiality and validity in small sample sizes; lack of an Inuit identifier in most provincial and territorial administrative data; lack of Inuit-specific rather than geographically-based socio-economic data and information on health determinants; difficulties accessing university-based research funding and finding support for community-driven applied research; and lack of data on urban Inuit (National Aboriginal Health Organization and Canadian Institute for Health Information 2009; Cameron 2007).

# Inequalities

Inuit fair poorly on virtually every health measure in comparison to other Canadians, and in many cases, other Aboriginal Peoples as well. The gap in life expectancy between residents of Inuit communities and Canadians in general is about 13 years, and the gap is growing (Inuit life expectancy likely is declining rather than increasing). The Inuit suicide rate is more than 11 times higher than the overall Canadian rate (Inuit Tapiriit Kanatami 2008a).

Inuit face high rates of tuberculosis, many cancers, respiratory diseases, accidental injuries and sexually transmitted infections (Cameron 2007). Inequities in factors that contribute to good health abound, for example, 38% of Inuit in the Inuit Nunangat live in crowded housing (compared to 5% of non-Aboriginal Canadians). The male Inuit unemployment rate across Canada is 23%, and median annual income for Inuit adults of \$13,699 compared to \$22,120 for all Canadians (Inuit Tapiriit Kanatami 2008a). Nearly 70% of Inuit preschoolers in Nunavut live in households that are food insecure (they did not have enough food and had to skip meals or eat only small meals and poor quality food some of the time) (Egeland et al 2010).

Inuit culture and lifestyles also have many strengths that can be built upon, for example, Inuktitut language use remains high in some areas, family and community ties are strong, most children are involved in cultural and outdoor activities, and traditional food continues as a regular part of the diet (Statistics Canada 2008).

Inuit Nunangat spans two provinces and two territories and as a result, health care delivery systems vary greatly. Primary, acute and specialist care is delivered by regional or territorial governments, while public health, mental health, and community health programs may be delivered by governments or by Inuit health authorities. Most communities are served by small health clinics staffed with nurses and community health workers, with periodic fly-in care by physicians and mental health specialists. Chronic staff shortages, high turnover and reliance on non-resident health care providers affects quality of care and health outcomes (Lemchuk-Favel 2007; Nunavut Tunngavik Incorporated 2008).

Most Northerners have to fly out of their communities for diagnostic, acute care and treatment, which can result in delays in diagnosis and treatment. Transportation costs consume a large proportion of the health care budget. Problems identified with Non-Insured Health Benefits (NIHB – the national Inuit and First Nations insurance program) are: a narrow scope of insured services; crisis versus preventive

counselling and dental services, and having to pay up front for services (particularly pharmaceuticals) not registered for direct billing to NIHB.

Health needs and concerns of Inuit living in urban areas are understudied, but it is known that they rarely receive Inuit-specific services, face language and cultural barriers in mainstream services, and face inequities in benefits as beneficiaries living outside of their land claims.

# Policy

While Inuit have their own traditional healing practices and knowledge developed over centuries, westernized health care was introduced over the last three hundred years by whalers, missionaries and trading companies. The Government of Canada never took legislated responsibility for health care delivery to Inuit, yet it did deliver health care services from Ottawa to the northern territories from 1954-82, when responsibility was transferred to the territorial government. Presently, almost all funding for territorial health care comes from the federal government through block transfers, which makes it difficult to determine how the money is being spent and whether Inuit are benefiting fully from federal programs (Lemchuk-Favel 2007).

A comprehensive Inuit health policy approach, in spite of repeated calls for this by Inuit organizations, and an Inuit/provincial/territorial/federal Inuit Health Summit held in January 2008, is lacking. Too often, Inuit needs and realities are subsumed within the much larger First Nations population.

# Monitoring and Evaluation

Inuit-specific data, and systematic research on Inuit health status, funding mechanisms, and systems integration is lacking in Canada. Because only one Inuit region has access to Inuit-specific administrative data, there is very little information available to monitor and reform the Inuit health care system. Inuit organizations have been working with the federal, territorial and provincial governments, and guiding documents such as the Inuit Action Plan, a joint Health Canada-Inuit Tapiriit Kanatami work plan and a Circumpolar Inuit Health Action Plan (forthcoming) have been created. What is needed is a comprehensive tri-lateral, long-term planning approach, built on a robust monitoring and evaluation system (Inuit Tapiriit Kanatami and Inuit Circumpolar Council Canada 2007; Inuit Tapiriit Kanatami 2008b; Inuit Circumpolar Council Canada 2009).

# 4.4 Métis

Métis are individuals of mixed First Nations and European (usually Scottish or French) heritage. While Métis are a distinct people, there is also a great deal of diversity among this population with regards to culture, language, values and beliefs, varying between communities and geographic regions. In the 2006 Census, Métis represented 33% of the total Aboriginal population in Canada (Statistics Canada 2008). The Métis population grew by 91% between 1996 and 2006 and half of the total Métis population is 30 years of age and younger (Statistics Canada, 2006 Census 2008).

#### Métis Data Sources

Among the several potential sources of health and well-being data, which include provincial administrative data, vital registration, health surveillance systems, census, health surveys, and academic/community-based research projects, currently very few allow easy identification and extraction of Métis-specific data (Anderson et al. 2006; Smylie & Anderson 2006). Historically, the Aboriginal Peoples Survey, academic research projects and data linkages have been the only avenues for the collection of Métis specific health data (Anderson et al. 2006; National Aboriginal Health Organization 2009; Smylie & Anderson 2006).

Health surveys are a cost-effective, less time consuming and informative source of data. To date the Aboriginal Peoples Survey is the only national data source that captures disaggregated data on the health and wellbeing of Métis in Canada. The Aboriginal Peoples Survey and Aboriginal Children's Survey have collected self-reported health and well-being information (Statistics Canada 2008). Three Aboriginal Peoples Surveys (1991, 2001 and 2006) have been completed to date. In 2001 and 2006, a Métis supplement questionnaire was also administered to Métis respondents, which included other questions on health and well-being. The first Aboriginal Children's Survey was conducted in 2006 (Statistics Canada 2008); however, the 1991 and 2001 Aboriginal Peoples Survey included a children's component. The Aboriginal Peoples Survey has attempted to survey off-reserve First Nations, Inuit and Métis on access and use of, and satisfaction with health care services, and reasons for not receiving health care (Statistics Canada 2008).

Provincial administrative databases contain rich, detailed data on usage of health services, hospitalizations, physician visits, mortality, vital statistics, among others. However, most provincial health information databases and health surveillance systems do not have ethnic identifiers (Anderson et al. 2006; Smylie & Anderson 2006), with the exception of the health care system in the Northwest Territories (Minore, Katt, & Hill 2009). This precludes easy extraction of Métis-specific data. Provincial Métis registries have been linked to the provincial administrative databases (Anderson et al. 2006) to overcome this limitation. Two organizations, the Manitoba Metis Federation (Anderson et al. 2006) and the Métis Nation of Ontario (Law & Smylie 2008; National Aboriginal Diabetes Association 2009) have successfully completed data linkages. In 2002, the Manitoba Metis Federation linked a sample of their membership list to health databases in Manitoba Health (the provincial ministry of health) (Kliewer, Mayer, & Wajda 2002). This yielded estimations of the extent of health care utilization (physician utilization and hospitalizations), and diabetes and cancer prevalence rates among Métis in Manitoba (Kliewer et al. 2002). Recently, the Métis Nation of Ontario partnered with the Institute of Clinical Evaluative Sciences (ICES) to determine the prevalence rates of some diseases among Métis in Ontario (Law & Smylie 2008; National Aboriginal Diabetes Association, 2009). A report is expected in 2010.

Well designed and well informed academic/community-based research studies can be an important source of health information. While academic research can be a vehicle for data collection on health and services coverage, Métis have been severely under-represented in academic research projects (Young 2003; Young & Katzmarzyk 2007). In a literature review prepared by the Métis Centre of the National Aboriginal Health Organization (2009) it was found that the extent of health coverage among Métis was not addressed in any of the existing research.

# Inequalities

Métis experience several inequalities in health care access and quality of care. For example, according to the 2006 Aboriginal Peoples Survey, Métis adults are less likely to report they have a family doctor and that they are very satisfied with the way care was provided the last time they saw a health professional compared to the total Canadian population (Janz, Seto, & Turner 2009). With regard to access to traditional medicines, healing or wellness practices, only one in three (32%) indicated these were available in their city, town or community (Janz, Seto, & Turner 2009)

While, age-standardized number of physician visits were comparable between Métis and the total Manitoba population, hospitalizations were higher for Métis (Kliewer et al. 2002).

In terms of health outcomes, Métis face several inequalities. For instance, Métis adults were more likely to report being diagnosed with arthritis and/or rheumatism, high blood pressure, asthma, and diabetes compared to the total Canadian population (Janz et al. 2009). Perhaps as a consequence, Métis adults have a lower life expectancy compared to non-Aboriginal adults (Tjepkema et al., 2009). Also, age-standardized mortality rates for Métis were significantly higher compared to non-Aboriginal individuals (Tjepkema et al., 2009).

# Policy

Unlike status First Nations and Inuit, all health services for Métis are covered under provincial health insurance plans, similar to that for the non-Aboriginal population (Anderson, Smylie, Anderson, Sinclair, & Crengle 2006). The exception are Métis in the Northwest Territories; the Northwest Territories is the only jurisdiction in Canada which has a Métis Health Benefits Program similar to the federal Non-Insured Health Benefits (Department of Health and Social Services Northwest Territories). Jurisdictional issues such as these not only affect health coverage and outcomes for Métis, they also severely limit opportunities for data collection.

# Monitoring and Evaluation

As a result of aforementioned gaps, Métis-specific data, and systematic research on Métis health status, funding mechanisms and systems integration is lacking in Canada.

The challenge to determining health coverage and health status of Métis is the inability to accurately determine the exact Métis population figures (Anderson et al. 2006; Minore et al. 2009; Smylie & Anderson 2006), and to identify Métis in provincial databases (Anderson et al. 2006; Minore et al. 2009; Smylie & Anderson 2006). Partial Métis population counts and coverage can be determined using provincial Métis registries. However, Métis registries have previously been subjected to limitations including voluntary registration, exclusions, gaps, inconsistencies or errors (Anderson et al. 2006; Minore et al. 2009; Smylie & Anderson 2006). These have resulted in the lack of representativeness of the samples and the inability to generalize findings. These factors collectively result in a systematic undercounting of Métis in population counts; disease, birth and death registries and administrative databases (Anderson et al. 2006; Minore et al. 2006; Minore et al. 2006).

Inconsistencies in how Métis are identified in national surveys pose another challenge. Métis have been identified in the census and national surveys by either using the ancestry question or the identity question (Saku 1999). The 1991 census lacked the identity question, however the subsequent censuses, and as a result the Aboriginal Peoples Survey, have incorporated the identity question (Tjepkema, Wilkins, Senécal, Guimond, & Penney 2009). The inconsistencies limit time series analysis of reported health outcomes and service coverage.

# **4.5 CONCLUSION**

Key recommendations for primary health care reform for First Nations, Inuit and Métis populations are listed below by population.

# FIRST NATIONS

- 1. Ensure equity for First Nations regardless of gender, status and place of residency.
- 2. Increase compatibility of different data sources for comparable data.
- 3. Maintain focus on social determinants of health as well as health outcomes and health systems.
- 4. Establish clear guidelines, measurement, monitoring and accountability for addressing health disparities supported by sufficient funding.
- 5. Resolve existing jurisdictional inconsistencies and disputes across levels of government.
- 6. Ensure the provision of equitable primary care services on reserve to those provided off reserve.

# INUIT

- 1. A closer examination of federal health spending equity between Inuit and First Nations.
- 2. Greater transparency in health spending by the territorial and provincial governments.
- 3. Health spending commensurate with the health inequities experienced by Inuit.
- 4. Inuit designed and delivered community health programs.
- 5. Long-range health planning.

The goal is to move toward providing primary care services closer to home, staffed by Inuit; with enhanced cultural competence in care; and better integration between all service providers.

# MÉTIS

- 1. The addition of Metis identifiers in provincial databases and vital registries or at least the complete or near complete enumeration of all eligible Métis in each province. To do this issues related to ethics must first be identified and addressed.
- 2. Increased funding for Métis-specific academic research.
- 3. Improved sampling methods and increased sampling sizes.
- 4. Increased access to existing databases.
- 5. Improve existing national and regional surveys.
- 6. Increased capacity of Metis to understand, interpret, collect and analyse data and statistical information.

## **Canada: Acknowledgments**

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Dr. Tremblay is a Mohawk, Turtle Clan, from Six Nations of the Grand River Territory in Southern Ontario. As Chief Executive Officer of NAHO, she is committed to influencing and advancing the health and well-being of First Nations, Inuit and Métis individuals, families and communities through knowledge-based initiatives. Dr. Tremblay has a Doctor of Philosophy in Education from the University of Ottawa.

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### V. Aotearoa New Zealand

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## 5.1 Colonisation and Demographic Change

Prior to the colonisation of New Zealand by European people that began in the late 18<sup>th</sup> century, the population of New Zealand was an amalgam of the newly arrived settlers from then Pacific and their descendents (King, 1999; Walker, 1992). As early as a few decades after the first European settlers established new lives in New Zealand a change in the features of New Zealanders was recorded when census taking was begun by these new visitors. As a minority a census of European settlers was much easier to manage settlement by settlement but the remoteness of settlements meant an under count was expected for both the new settlers from Europe and the New Zealanders established in great numbers. The change in how the estimates of population were made was then informed by degrees of intermarriage, race and later ethnicity. These changes in definition tell us much of the relationship between the people indigenous to New Zealand and the new arrivals from Europe in the 19<sup>th</sup> century, and how this relationship developed.

The relationship between Maori and the rest of New Zealand remains dynamic and reflects changing definitions and the manner in which statistics are compiled. The health characteristics of the indigenous population, Maori by descent, in New Zealand are recorded in rich sources of information that include the census and health-related data. These data when combined form an amalgam that is host to a variety of assumptions about the people who participated. This amalgam presents both a contemporary view of how Maori were viewed by those collecting and analysing the statistics and what health-related data was deemed to best reflect that status of Maori. In the past and with few exceptions Maori were rarely consulted about how they were described in the official statistics and therefore little knowledge remains in the official statistics of Maori populations as determined by Maori nor is there much about Maori concerns about their health and wellbeing.

To project an accurate impression or estimate of Maori populations it is essential that a robust understanding of who are Maori is decided before describing the impact of morbidity and mortality relative to the rest of the population of New Zealand. A comparison of the epidemiology of a disease between Maori and non-Maori may inform the mechanism for the determinants of poor health and give rise to the development of preventative, treatment and palliative strategies but it also provides the basis for an equity debate regarding the fair and equitable distribution of society's resources to identify needs and address inequalities. The efficacy of these strategies relative to Maori are also determined from inequalities in outcome as measured by mortality or morbidity however these measures do not capture the features of what wellbeing and indeed health may mean to many Maori. Where this is the case, the utility of a simple epidemiologically-based disease state analysis may understate Maori priorities for health. Before exploring the differing perspectives Maori and non-Maori hold regarding health and wellbeing, it is useful to consider how the census of New Zealanders became complicated once Governor Hobson stated 'we are one country' at the signing of the Treaty of Waitangi, 1840 (Orange 1987).

## 5.2 Census

There are estimates of the population of New Zealand prior to European settlement. Dieffenbach who visited parts of New Zealand between 1839 and 1841 concluded that in parts the natives were numerous estimating the population of settlements (predominantly Maori) living on both sides of Cook Strait was 6490 in 1840 (Dieffenbach 1843).

Reliable estimates of the population of New Zealand after the arrival of European settlers in the early 19th century were published in the records of the Appendices to the Journals of the House of Representatives from census. Brabant, a district magistrate, reported in the records of The Parliament a decreasing census of Maori in the Bay of Plenty. He reported the population had declined from 4200 in 1878 to 2246 in 1881 (Brabant RM, 1878, 1881). These estimates were regional estimates based on those Maori living in the areas near the sea or other areas where access to relatively easy. Later census data recorded patterns of European settlement and rarely mentioned Maori.

Pool estimated the national population of Maori fell from perhaps more than 100,000 prior to 1840 to less than 40,000 by the beginning of the 20th century (Pool 1991). Since the beginning of the 20th century the population of Maori in New Zealand has increased although the definitions of the Maori population have been inconsistent with those used in the census. Statistics New Zealand estimates of the Maori population for the years 1991–2000 were derived from the results of the 2001 Census and independently of results from the 1991 and 1996 Censuses because of changes to the question on ethnicity. The census ethnicity question for the 1996 Census had a different format from that used in 1991 and 2001. The first order of ethnicity for the two answer boxes had 'NZ Maori' listed first and 'NZ European or Pakeha' was listed second in 1996. The 1991 and 2001 questions also used the words 'New Zealand European' rather than 'NZ European or Pakeha'. The 2001 question used the word 'Maori' rather than 'NZ Maori'. The same census form also included an answer box for 'Other European' with additional drop down answer boxes for 'English', 'Dutch', 'Australian', 'Scottish', 'Irish', 'other'. These were not used in 1991 and 2001 (Statistics New Zealand 2010a).

#### 5.3 To Be or Not to Be Maori

Now based on the concept of cultural affiliation the "New Zealand Maori Ethnic Group", is accepted as the standard definition of the Maori population currently used by Statistics New Zealand. This definition includes all those who identify themselves as belonging to the New Zealand Maori ethnic group; alone or combined with any other ethnic groups (Statistics New Zealand 1998). For some time a single definition that captured all who ever identified as Maori as a health numerator was used to complement the Statistics NZ census denominator to account for the historical undercount for Maori as described in latest edition of *Hauora*:

This method counts as Māori anyone ever recorded as Māori in any cancer registration, hospital admission or death registration, or on the National Health Index (usually over a specified period). In analyses of earlier periods (1996–2001), the 'ever Māori' method appeared to produce reasonable estimates of deaths and cancers (Robson & Harris 2007).

Current Maori population estimates for the years 2001–06 have been revised using results from the 2001 and 2006 Censuses and will be updated next year from the results of the 2011 census. Furthermore, in August 2010 Statistics New Zealand estimated the population of New Zealand at 4,374,774 from a census night population of 4,116,900 on March 7, 2006. The result has been an over count of Maori when using the 'ever Maori' classification of ethnicity most probably due to more years of data being available for data linkage and improving classification of ethnicity (Robson & Harris 2007).

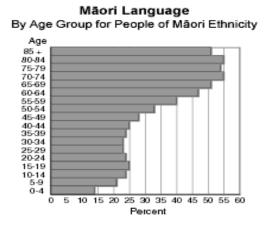
At the end of June 2010 there were there were 64,120 live births, there were 28,840 deaths registered, therefore births exceeded deaths by 35,280 for the preceding calendar year. The birth rate was 2.2

births per women, about half of the peak of 4.3 births per woman in 1961 (Statistics New Zealand 2010b).

The Māori population has a younger age structure, with a relatively large proportion in the main reproductive ages (15–44 years). With a median age for Māori of 22 years, most do not have access to their language. Combined with a relatively high population growth rate (average annual increase of 1.4 percent) relative to non-Māori (average annual increase of 0.7 percent) driven by a higher fertility rate for Māori females (compared with non-Māori females) in 2008, the Māori total fertility rate was 2.95, compared with 2.01 for non-Māori<sup>8</sup>. Māori are predicted to remain a significant proportion of the population under 15 years by Statistics New Zealand for some time (Statistics New Zealand, 2010c).

The 565,329 people who identified with the Māori ethnic group in the 2006 Census, represented one in seven people enumerated four years ago. 1 in 4 (130,482) people of Māori ethnicity speak the Māori language. While the capacity of speak their own language is available to relatively few Maori, there are Government funded initiatives to promote it. In spite of this support the proportion of people able to converse in the Maori language is falling and the language is now seen at greater risk of being a language spoken by few if any Maori.

#### Figure 1: The Use of Maori Language by Maori people



Source: (Statistics New Zealand 2002)

# 5.4 Inequalities in Access, Health Risks and Outcomes, and Out-of-pocket Expenditures

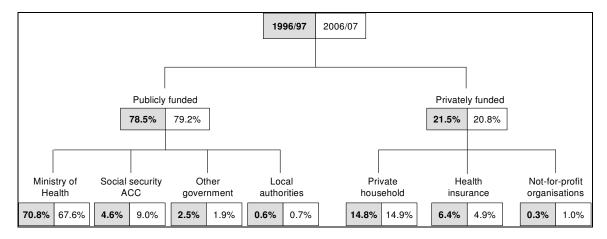
The information in the report Health Expenditure Trends in New Zealand 1997-2007 (Ministry of Health 2010a) provides a basis for identifying and measuring trends and changes in the patterns of health and disability expenditure in New Zealand. This data is also useful in evaluating policies related to health and disability expenditure levels and patterns, plus it provides a basis for comparing New Zealand's expenditure with other nations. (Ministry of Health 2010a). Intended as a resource for interested individuals and organisations to foster informed debate, the report offers insights into the manner in which health care is funded in New Zealand, where public and private funding account for the provision of health care.

<sup>&</sup>lt;sup>8</sup> The total fertility rate is the average number of live births that a woman would have during her life if she experienced the age-specific fertility rates of a given period (usually a year). It excludes the effect of mortality. (Source: http://www.stats.govt.nz/browse\_for\_stats/population/births/Births/AndDeaths\_HOTPMar10qtr/Technical%20Notes.aspx).

Out of pocket health expenditure from private house-holds has increased slightly over the ten year period this has been monitored in the series based on the System of Health Accounts (SHA). These were promulgated by the Organisation for Economic Co-operation and Development (OECD) and were adopted by New Zealand in 2003 (Ministry of Health 2010a).

Funding of health care in New Zealand (see Fig 2 below), reported in the latest edition of *Health Expenditure Trends in New Zealand 1997-2007* (Ministry of Health 2010a) shows little change in out of pocket expenses in the past decade, however there has been an almost a doubling of the contribution made by the Accident Compensation Corporation in the publicly funded sector and a tripling of the contribution of Not-for-Profit organisation in the privately funded sector. While there is a significant private contribution to health care, more than 78% of the funding for health care comes from local and national Government as either direct funding or social security.

# Figure 2: Funding Health Care in New Zealand



# Source: (Ministry of Health, 2010b)

The Government of New Zealand's report on health expenditure was published in 2010 to cover the fiscal year 2006-07 (Ministry of Health 2010a). This report is the latest in a series of reports to present an estimate of health expenditure with no comment on health service effectiveness, efficiency or quality. Out of pocket expenses by household are considered a private contribution to the cost of healthcare and are included with private insurance and non-governmental funding of not-for-profit organisations.

# 5.5 Inequalities exist between Māori and non-Māori.

Inequalities are exhibited for high-level indicators such as life expectancy and infant mortality and across a range of health conditions, Māori having higher rates of chronic disease, including cancer, diabetes, cardiovascular disease and asthma and have done so for some time (Pomare & de Boer 1988). A challenge for primary health provision is to improve its performance so that it can deliver on some of its fundamental principles of fairness and equity and ensure New Zealanders live long, healthy and independent lives with equitable access to these services. The performance of primary care is related to timely access to effective care and cost is a recognised barrier to primary health care.

Government funding is provided only for child and adolescent oral health and for primary health care. Māori adults were equally as likely as non-Māori adults to have seen a GP in the last 12 months

however, they were more likely not to attend when a part payment is levied (Jansen and Smith 2006). While the cost to the patient of primary health care may be a factor in gain access, the ability to pay displays inequalities that further burden Māori. Māori live in areas with the most deprived NZDep2006 scores.<sup>9</sup> In 2006, 24 percent of Māori live in decile 10 areas (compared to with 7 percent of non-Māori), while only 3 percent of Māori live in decile 1 areas (compared with 12 percent of non-Māori) (Salmond, Crampton, & Atkinson 2007). Jensen and Smith (2006) found that "Maori continue to have the greatest levels of health inequality in New Zealand, with measures of mortality and morbidity showing significant gaps compared to non-Maori even after controlling for deprivation. These ethnic differences in health status relate in part to a higher prevalence of smoking and other risk factors, in part to in-come inequalities, but also in part to barriers to access and treatment and to provider bias" (Jansen and Smith 2006).

The report for New Zealand prepared by the Ministry of Health provides clear and well supported examples of risk activities that are known to adversely affect health.

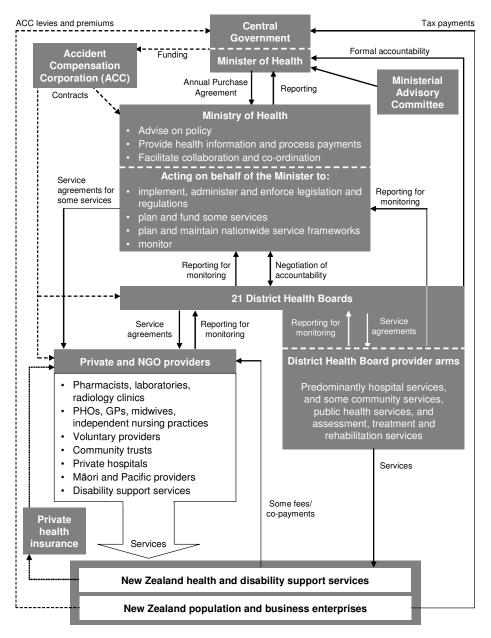
## 5.6 Government Strategies

In the New Zealand report the strategies of Government are outlined and articulate the expectation that Māori have equitable access to clinically effective and culturally appropriate health and disability services. While Māori are acknowledged as having a special relationship with Government under the Treaty of Waitangi, life expectancy has increased but there has been less improvement made with other the health targets set by Government over the past twenty years. An explicit Māori Health Strategy was outlined first in He Korowai Oranga (Minister of Health 2001) as a discussion document and this policy is updated regularly by a action plan, He Whakataataka (Ministry of Health 2002) that aims to reduce inequalities, maintain health gains and acknowledge Māori aspirations for control over their own lives. The delivery of this health strategy is undertaken while acknowledging the development of whanau, hapu, Iwi and Maori communities, Māori participation throughout the health and disability support sector, effective health and disability support services, and working across sectors. This is underpinned by an emphasis on the importance of good quality data, monitoring and evaluation.

The vast majority of the Ministry expenditure relates to bulk funds devolved to DHBs for purchasing at a local level. Funded by DHBs Primary health organisations (PHO) who deliver primary health care are expected to take a population health approach. PHO are now charged directing health and disability services to areas of greatest need, with the aim of keeping people healthier for longer, and promoting well-being. Their aim is to have as many people as possible participating in preventative measures alongside treating disease, disorders or disabilities at an individual level. PHOs have had successes. With improved health information there is now evidence of stabilisation or improvement in health inequalities in New Zealand over the past decade, including in relation to infant morality and life expectancy, improvement in rates of immunisation (an indicator that was a key concern prior to the Primary Health Care Strategy), along with a reduction in inequalities associated with ethnicity.

<sup>&</sup>lt;sup>9</sup> NZDep2006 is a small-area-based relative deprivation index based on nine socioeconomic variables from the 2006 Census. NZDep2006 scores are usually categorised into tenths (deciles), numbered from 1 (least deprived) to 10 (most deprived). NZDep2006 describes the deprivation experienced by groups of people in small areas and describes the general socio-economic deprivation of an area. It does not describe the deprivation of an individual.

#### Figure 3: The Structure of the New Zealand Health Sector



Source: (Ministry of Health 2010a)

Personal health expenditure is public funding for personal health services is for the purpose of improving or protecting their health. A total of \$9,999.1 million or 78.0% of total personal health expenditure was committed in 2006/07 by the Ministry for personal health expenditure showing an increase on average by 8.8% per year and personal health care (the largest component) has grown by 8.9%.

Public expenditure classified as Maori Health has been maintained in the range of 3.9 to 4.4% of head office expenditure for the Ministry of Health (see Table 1) and the Ministry of Maori Development

through their brief to address health inequalities in the delivery of health and disability services (Ministry of Health 2010a). Other areas receiving public fund for health are education and research.

Public funding for current health-related activities by the Ministry of Education supports tertiary training and education of many classes of health professionals. In 2003/04, there was a significant change in the level of the education expenditure. The total estimates for 2006/07 are \$484.8 million to support the education of health professionals and \$118.5 million for the overhead proportion of clinical research undertaken by tertiary institutions. This was an increase of \$34.5 million and \$11.2 million from the previous year as a result of moving to a fully costed funding model and the contribution that trainees make to their own training.

Output class	2004/05		2005/06		2006/07	
	\$ million	% of total	\$ million	% of total	\$ million	% of total
Health and disability policy advice	12.4	7.19%	13.2	6.95%	14.2	6.88%
Performance management	16.9	9.80%	18.8	9.92%	18.3	8.90%
Ministerial support services	2.7	1.57%	3.2	1.66%	3.4	1.64%
Māori health	4.2	2.44%	3.9	2.08%	4.4	2.13%
Public health	40.2	23.32%	47.8	25.24%	48.2	23.38%
Disability issues	8.8	5.10%	10.7	5.64%	11.4	5.52%
Health sector development	1.0	0.58%	0.0	0.00%	0.0	0.00%
Mental health	7.4	4.29%	7.3	3.86%	8.9	4.31%
Clinical services	16.8	9.74%	14.4	7.60%	15.1	7.32%
Screening programmes	10.2	5.92%	10.2	5.40%	10.6	5.13%
Information services	51.8	30.05%	60.0	31.65%	71.7	34.79%
Total	172.4	100.00%	189.5	100.00%	206.0	100.00%
Biosecurity – policy advice	1.5	19.23%	1.9	19.32%	1.8	100.00%
Biosecurity – specific pest and disease response	6.3	80.77%	8.0	80.68%	0.0	0.00%
Total	7.8	100.00%	9.9	100.00%	1.8	100.00%

Table 1: Ministry of Health Head Office expenditure, by output class, 2004/05, 2005/06 and 2006/07

Source: Ministry of Health ((Ministry of Health, 2010a)

Note: Totals may be affected by rounding.

A substantial proportion the public investment in health research was transferred from the Ministry of Health to the Ministry of Research, Science and Technology (MoRST) in 1997. This included the Health Research Council which was established by its own legislation as the in 1990. Health research is now included in the priority setting and management process applied to other public-good science and technology investments. In 2006/07, expenditure on health research was \$74.5 million, compared with \$67.5 million in 2005/06.

# 5.7 Conclusion

The challenges for New Zealand now that there is a mechanism for reporting on health expenditure is to provide an analysis of public spending for Maori health outside the functions of the Ministry of Health's head office activities. Private contribution to health care represents about 20% of the total spend on health with 70% of the private contribution provided by the household and 20% derived from health insurance. The evidence of the influence of out-of pocket expenses on the health and

wellbeing of Maori will remain unclear while the private provision of health is not coded for ethnicity for funding the delivery of health services. The training and retention of a skilled and culturally competent health workforce will also depend of increasing the uptake of the Maori language that is the natural foundation for cultural competency in the Maori world.

The ways in which Maori were counted have changed. The enumeration of Maori is improving but there is still some way to go because many do not accept the colonial term Maori preferring iwi (tribal) affiliations which provide richer understandings of being indigenous to Aotearoa/New Zealand. The importance of those cultural treasures that define the pre-colonial New Zealanders such as te reo Maori help maintain important connections with past generations that reinforce connections with land, rivers and vast natural resources that frame identity. While health indicators for Maori are improving, the progress made in relation to non-Maori is slow and the inequalities remain. The progress required to reduce health inequalities and improve the wellbeing of Maori will depend on a long term commitment by this country to specific health targets and that health and education initiatives are evaluated to ensure strategies remain effective and outcome focussed.

Maori health can be expected to improve but whether the rate of improvement swamps existing inequalities, Maori health inequalities will remain an issue while resourcing, accurate data classification, increases in the efficacy of health service delivery, the generation of new knowledge to inform health service delivery, workforce development and policy formulation are not set in place, evaluated and matched to the highest standards. The funding required to address the health needs of Maori has been included as part of the funding of health for the general population while Maori health needs have been greater. The apparent mismatch under resources the delivery of health services to Maori and provides an excess to others. The additional burden of ill health that characterises the health status of Maori as a population could reasonably be reflected in higher out of pocket expenses for Maori. The impact of out of pocket expenses on Maori health is multi factorial and presents as barriers to access to primary health care services. Cost barriers to primary care when combined with the declining use of te reo Maori and the burden of health inequalities for Maori suggest a future widening in the gap when the capacity to deliver competent primary health care will not match the increasing health needs of Maori. Therefore simply reducing out of pocket expenses will not be sufficient to meet the short fall in resourcing required to meet the changing health needs of Maori.

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#### VI. United States of America

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### 6.1 Introduction

As of 2008, an estimated 4.9 million people – belonging to 562 federally recognized tribes and more than 100 state recognized tribes, as well as tribes that are not state or federally recognized – were classified as American Indian and Alaska Native either alone or in combination with one or more other races, making up 1.6% of the U.S. population (Office of Minority Health 2009). The federal government's relationship with Native Americans is commonly referred to as a "trust" relationship, characterized by the courts as analogous to a ward-guardian relationship, in which health care is provided without reference to treaty rights with few exceptions (Berry 2004). The age structure of the American Indian and Alaska Native population is younger than the general population, with much larger age cohorts under age 25 and half as many adults age 65 and older (Meyer 2000).

Despite the federal trust relationship and the establishment of the Indian Health Service in 1955, American Indians and Alaska Natives continue to have a lower life expectancy than any other racial/ethnic group in the U.S., and higher rates of injury and many diseases. Further, per capita health spending is less than any other federally funded group. As a result, many services, particularly preventive and specialty services are unavailable (US Commission on Civil Rights 2003). Health care service disparities are further compounded by socio-political and cultural issues that limit the ability to advance data collection, ensure appropriate translation of data to practice, and strengthen the data infrastructure.

## 6.2 Barriers and enablers to the collection of data

There are characteristics intrinsic to American Indian and Alaskan Native communities which impact the availability and collection of data necessary for analysis of disparities in health and well-being among these population groups. These intrinsic characteristics include small population size, geographic dispersion of this small population both among urban areas, and concentration within rural often remote areas. In particular, rural concentration increases barriers to inclusion in national representative survey samples while geographic dispersion makes it difficult to develop sampling strategies which would increase American Indian and Alaskan Native representation (DHHS 2007). Compounding these challenges to health data collection is the misclassification or inconsistent collection of racial identifiers in most federal health data and survey methods which do not fit the circumstances of the target population (Buchwald et al. 2006). These culturally inadequate survey methods frequently rely on the accuracy and availability of address listings; respondent telephone access; and ignore household mobility, language and cultural barriers (Lavelle et al. 2009). Barriers to successfully collecting health data on American Indian and Alaskan Natives have also been associated with investigator biases; investigators' failure to gain trust and establish credibility in the community in which the data is collected; community perceptions of the institutions collecting the data; and the community perceived ultimate application or use of the data (Norton and Manson, 1996). Studies have reported a particular mistrust among urban dwelling American Indians and Alaskan Natives who report that such institutions are elitist and not committed to the welfare of minority communities (Buchwald et al. 2006). Finally, investigator assumptions may overlook cultural and language differences which result in interpretation and responses to survey questions that differ from that of the general population.

Despite myriad barriers to research from within and without American Indian and Alaskan Native communities, research has identified factors which appear to improve health data acquisition within this group. American Indians and Alaskan Natives report they are willing to participate in health related studies especially if they are conducted by trusted entities with whom they have consistent interaction, meaningfully involve the community in appropriate ways, maintain confidentiality, compensate participants, and address health concerns identified as important to the community being studied (Buchwald et al. 2006). The growing popularity of Community Based participatory Research and an increased amount of tribal epidemiology programs which identify and collect community relevant health data are also facilitating the collection of data which can be used to assess the health and wellbeing of American Indians and Alaskan Natives (Lavelle et al., 2009).

#### 6.3 Data

#### Overview of key data sources

There is very limited data on behavioral risk factors associated with morbidity and mortality in Native Americans, although the Indian Health Service (IHS) estimates that lifestyle and behavioral issues contribute to almost 70% of the disease that occur at a higher rate in Indian country (Berry 2004). The Behavioral Risk Factor Surveillance System review of self-reported health status and risk factors over 1997-2000 fills this gap, but no statistical testing was performed for comparisons in this report to measure the significance of health disparities (Denny 2003).

The only recent comprehensive review of the health status of urban American Indians and Alaska Natives looked only at Natives living in counties with the urban IHS services (34% of the urban Native population); relying on census data and vital statistics data over 1990-2000, this study may have substantially undercounted this population and did not report age-adjusted statistics (Castor 2006). A national linked birth-death database looking at a narrower range of health outcomes reported conflicting results (Baldwin 2002).

Healthy People 2010: Objectives for the Nation is a national agenda for public health research in the United States utilized at the federal level to set priorities for the collection of health related data and the implementation of health programs. Of the 128 objectives that are population specific to American Indians and Alaskan Natives, more than half have no baseline data. (Burhansstipanov and Satter, 2000). While the United States Department of Health and Human Services has prioritized collection and improved identification of AIAN in federal health data including: the National Health Interview Survey, National Health and Nutrition Examination Survey I and II, Behavioral Risk Factor Surveillance System, National Medical Expenditures Survey, and the National Survey of Family

Growth, a United States Department of Health and Human Services study found the majority of data did not have large enough samples for even simple distributions to be produced (DHHS, 2000). More recent research reviewed the availability of American Indian and Alaskan Native data for the assessment of health disparities utilized by the National Health Disparities Report, an annual congressional assessment of health care quality and assess. This research has revealed that of over 200 indicators of quality of access and care, data on American Indians and Alaskan natives was available for only 42% of these measures (Moy et al. 2006). Concurrent studies suggest that this may even underestimate the data problem (Rhoades, 2006). Data on American Indian and Alaskan Natives with regards to federal child care, transportation, and Workforce Investment Act subsidies and services are currently unavailable (US GAO 2005).

### 6.4 Measurement methodology problems (about us but not with us/ changes over time)

Research into the health of American Indian and Alaska Native populations is mostly descriptive, but has been more extensively reviewed than research into other indigenous populations in Australia, New Zealand and Canada (Sanson-Fisher 2006). The availability and validity of health data is further complicated by perpetually small sample sizes that limit more complex analyses and hinder generalizability. While American Indian and Alaska Native health data are often collected through federally funded studies, these data are too often collapsed into an "other" category or omitted from report documents that note "insufficient data". "Other" data is of no use for monitoring or developing health services or programs (Burhansstipanov & Satter 2000).

Data ownership is a growing focus of debate and negotiation between data collectors and data users, particularly as the balance of power has shifted giving tribes increasing control over their data (Lomawaima 2000). While this change is essential to tribal self-determination, there are implications for the availability and comparability of increasingly disparate data elements and collection methodologies. The contribution of contextual variables is acknowledged as important to data interpretation but often overlooked (Jones 2001).

### 6.5 Identification issues in these sources (across urban/remote, over time, across age and sex)

The misidentification of American Indians and Alaska Natives in administration datasets has been reported for many years. An assessment of the accuracy of race reporting on death certificates for the years 1979-85 found that American Indians and Alaska Natives had the greatest amount of race misreporting on death certificates (26.7%) as compared to 17.6% for Asian/Pacific Islanders, while misclassification was very small for Whites (0.8%) and African-Americans (1.8%) (Sorlie 1992). A review of misclassification rates for American Indian and Alaska Native ethnicity in cancer registries in urban populations relying on contract health services found misclassification rates ranging from 3% in Alaska to 44% in the Southern Plains (Espey 2008).

### 6.6 Systematic undercounting of births/deaths

Misclassification of American Indians and Alaska Natives in vital statistics records results in consistent underestimation of rates of infant mortality, injuries, cancer, and overall mortality; some rates are as much as 47% higher after correction for miscoding (Castor 2006). A study which matched records of the National Death Index, a census of state death certificates, to IHS patient records found significant variation among states in the miscoding of American Indian and Alaskan Native race, ranging from 28 percent to two percent miscoded (IHS 1996). American Indians and Alaska Natives are more likely to be miscoded if they die in urban settings (Castor 2006). The most recent study linking data from the Current Population Survey to the National Death Index found the highest level of race or ethnicity misreporting for American Indians and Alaska Natives. The study matched 1990-98 survey records to death certificates and found that 45% of decedents self-reported as

American Indian or Alaska Native on the survey were not reported as such on their death certificate, as compared to a misclassification rate of 10.3% for Asian and Pacific Islanders, and 11.9% for Hispanics (Arias 2008).

# 6.7 Programmes to improve enumeration

The limitations and inaccuracies of health and wellbeing data collected on American Indians and Alaskan Natives have been extensively studied (Lavelle et al. 2009; DHHS, 2007). While many recommendations for the improvement of the identification and inclusion of American Indians and Alaskan Natives in federally collected population, health, and well-being data have been made, few have resulted in programs or policies which improve enumeration (IOM, 2003).

Specific federal programs to improve the enumeration of American Indians and Alaskan Natives in the United States include the United States Office of Management and Budget Directive 15 (OMB 15) and the United States Census Bureau Tribal Government Liaison Program (DHHS, 2007). Under OMB 15, The United States Census and other federally funded population and health related studies were required to revise racial and ethnic survey data collection procedures with the goal of improving enumeration of American Indians and Alaskan Natives. The OMB 15 Directive permits respondents to self-identify more than one race, and allows American Indian and Alaskan Native respondents to self identify as a singular group (OMB, 1997). The Tribal Government Liaison Program was piloted during the 2000 Census. During this census, the support of tribal governments was obtained to enhance the collection of accurate population data. Tribal liaisons were selected who served to bridge cultural and language gaps to accurate enumeration identified in the previous census. In some circumstances, successful partnerships between American Indian and Alaskan Native governments and the US Census Bureau were developed and led to improved enumeration by increasing the inclusion of this population and improving survey methods to make them more culturally relevant (DHHS, 2005).

Tribal governments among the American Indian and Alaskan Native population have initiated their own programs to collect health and wellbeing data through tribal epidemiological consortiums. Tribal epidemiological programs generally have broad community support in assessing community identified health issues. When added to national data, these programs have potential to vastly improve the enumeration and documentation of American Indians and Alaskan Natives and their health status and needs (Northwest Tribal Epidemiology Center 1999).

In a 2003 report on improving racial and ethnic disparities in healthcare, the Institute of Medicine (IOM) recommends the collection and reporting of data on healthcare access and utilization by OMB defined patient race and the requirement of measures of racial and ethnic disparities in performance evaluations performed by major medical service provider accreditation agencies such as Joint Commission on Accreditation of Healthcare Organizations (JCAHO) and the National Committee for Quality Assurance (NCQA) (IOM 2003).

# 6.8 Inequalities

# Access (effective coverage of PHC and specialized care, unequal quality of care)

Only 1.9 million American Indian and Alaska Native people belong to federally recognized tribes and live on reservations or other trust lands where the Indian Health Services (IHS) operates a comprehensive health service delivery system, and only 600,000 can access IHS funded services in urban clinics run by Indian health organizations (Figure 1) (Office of Minority Health 2009). Even on reservations, IHS services tend to be underfunded and under-staffed and offer a narrower range of

services than Medicaid or private insurance plans, and available services are rationed (Brown 2000; Berry 2004). American Indians and Alaska Natives relying on the IHS rather than medical insurance are less likely to have obtained the minimum number of doctor visits for their age group and health status (Brown 2000). Native Americans are more likely than other ethnic groups to consider a clinic or health center their usual place of care rather than a doctor's office or a health maintenance organization, and are more likely to visit an emergency room but less likely to visit a doctor (Barnes 2005; Zuckerman 2004). An estimated 15-20% of health status disparities in Native Americans have been attributed to the health care delivery system (Berry 2004).

The shift toward tribal autonomy in the planning and delivery of health services in recent years has been a dramatic success, redirecting resources based on local priorities and needs, allocating more resources toward prevention, and improving retention of skilled employees, who are increasingly Native, but under the same funding constraints that limited IHS services these programs remain

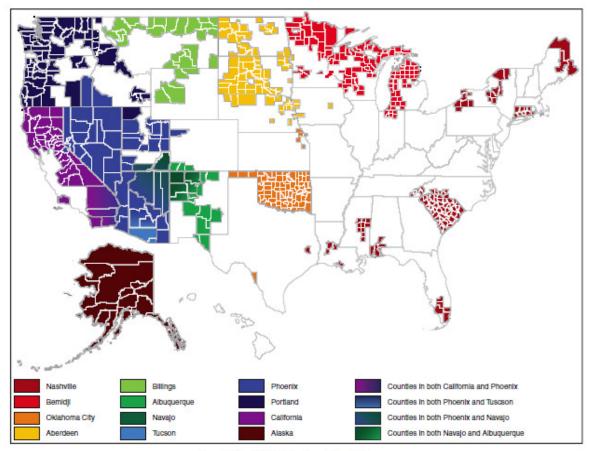


Figure 1. IHS Health Service Delivery Area.

ource: GAO analysis of IHS Information, as of June 2005.

Note: IHS refers to the counties highlighted in this map as contract health service delivery areas. Residence in these counties is generally one of the prerequisites for obtaining contract care services through IHS, while eligibility requirements for direct care services—services provided at an IHSfunded facility—are broader.

Source: GAO Report, 2005.

inadequate to the need (Berry 2004). For contract health services available only from non-tribal, non-IHS facilities, the IHS is a payor of last resort, and deferral or denial of IHS payment authorization is the norm – the existence of a 'loss of life or limb' rule is commonly recognized (Berry 2004).

Nevertheless reliance on private sector health care is increasing, largely through third party payments (Rhoades 2002). In 1987 37% of IHS eligible American Indians and Alaska Natives used a mix of IHS and non-IHS health care services, and 17% exclusively used non-IHS services (Cunningham 1993). Among American Indian and Alaska Native users of Medicaid compared with Whites using Medicaid, patients report greater difficulty getting needed care, difficulty getting timely care, difficulty with provider communication; poorer plan service and that staff are less helpful (Weech-Maldonado 2003).

The degree of understaffing in some IHS services is extreme – there is only 1 dentist for every 2,800 individuals in the IHS compared to 1 dentist for every 1,500 individuals in the general population (Nash 2005). In dental health care the basic premise upon which care is rationed is changing from basic care for all who have access, to more complex care for fewer individuals, and unmet dental needs make up a large proportion of self-reported unmet health needs among Native Americans (Broderick 2000, Zuckerman 2004). Similarly in the area of child and adolescent mental health services, the IHS estimated in 1990 that at least 200 child specialists were needed, but only 17 trained clinicians were then employed by the IHS (Novis 2000).

Health promotion initiatives are underutilized in Indian health care strategies and underfunded federally; there are currently only about 1,400 Community Health Representatives working in health promotion in over 400 rural communities across over 250 tribes (Satterfield 2002). Serving long hours and often on a 24-hour basis, Community Health Representatives provide early intervention, case findings and improved access to the health care system, and support health care delivery and continuity of care (Satterfield 2002). They also provide culturally relevant education and social support (Satterfield 2002). Urban Native elders' use of preventive services is suboptimal for many measures, including mammograms, fecal occult blood testing, audiometry, visual acuity testing, smoking cessation counseling, and vaccination (Buchwald 2001). Their access to ambulatory and preventive care is dramatically poorer than that of Whites, even among Medicare enrollees (Virnig 2002).

Nearly one third of American Indians and Alaska Natives are uninsured, and 35% of those not covered by IHS services or an insurance policy have no usual source of health care (Brown 2000). Poverty is a significant barrier to health care – Native women living in rural areas make on average only \$15,000 a year, and urban Native women make only \$18,800 (The Status of Women in the States 2004). Overcrowding in Native American homes is three times the national average (Berry 2004). Unemployment is twice the national average both on- and off-reservation, and a larger proportion of families with children are single-parent households (Castor 2006). On reservations infrastructure is largely lacking, impassable roads are a barrier to accessing IHS services, and housing is substandard; for example, among the Navajo more than 50% of homes rely on wood burning for heating, 32% lack adequate plumbing, and 60% lack telephone services (Berry 2004).

Language is a barrier to communication with health care providers for 371,000 American Indians and Alaska Natives, and IHS does not provide formal language assistance to its patients, relying on staff and employees who speak the same language as the patient to translate informally or relying on patients to bring their own translators (Berry 2004). Contract health services off reservations have no means of accommodating patients with language services (Berry 2004).

It has been suggested that the longer hospital stays of American Indian and Alaska Native patients are related in part to delayed discharges resulting from discriminatory practices by providers of posthospital care and extended care facilities, driving up the cost burden on patients and increasing their risk of nosocomial infections, negligent acts or medical errors (Khaliq 2003). The IHS does not directly fund long-term care for Native elders, who rely on the Medicaid program for these services and must leave their communities to receive them (Lewis 2003). Discrimination and cultural insensitivity are primarily an issue with contract health service providers outside the IHS (Berry 2004).

Barriers to a healthy lifestyle and in particular to the prevention of obesity include lack of access to healthy foods, an absence of fitness centers or safe places for physical activities in rural areas, and domestic problems and deep-rooted intergenerational trauma affecting Native Americans' freedom to make healthy eating and exercising a priority in their lives (Berry 2004). However, the IHS established a National Diabetes Program in 1979 that now serves as a model program for monitoring quality of care in health services, and quality of care has improved markedly through targeted interventions with some results better than certain non-Indian health diabetes programs (Roubideaux 2004).

The 1978 Indian Religious Freedoms Act was a key step toward U.S. government recognition of the use of traditional medicines and religious ceremonies in health care among American Indians and Alaska Natives (Buchwald 2000). In 2002, the Association of American Indian Physicians approved a resolution acknowledging and supporting Native American traditional healing and medicines as part of the spectrum of health care appropriate for Native Americans (Berry 2004). Some third party provider contracts are fashioned to include traditional healers in the IHS services system, but many argue that this level of integration between biomedical and traditional healing services is not enough (Kuschell-Haworth 1999). A survey of a convenience sample of clinic patients using traditional health care found that they generally indicate that it helps some or quite a lot, and that if traditional health services were more available they would consume more (Buchwald 2000). A study of Vietnam veterans' use of biomedical and traditional healer related to the availability of services, with traditional healers' services making up for a shortfall in biomedical mental health services in the southwest but traditional healers less available and less utilized in the Northern Plains (Gurley 2001).

## 6.9 Outcomes (disability, morbidities, mortality)

American Indians and Alaska Natives have had generally poorer health status than average in the United States, including disadvantages in death rates, morbidity, disability, and risk factors (Figure 2). The life expectancy of American Indians and Alaska Natives is almost six years less than the general population in the U.S. (Noreuil 2010). American Indian and Alaska Native adults are more likely than other groups to report fair or poor health, and report higher rates of the behavioral risk factors cigarette smoking, inactivity, binge drinking, and obesity, and are less likely to be screened for cervical cancer (Denny 2003). Infant mortality rates are higher than among non-Hispanic whites, as are rates of cardiovascular disease and stroke, homicide and suicide, HIV infection, and type 2 diabetes (Noreuil 2010). Disparities in infant mortality are due mainly to preventable infectious

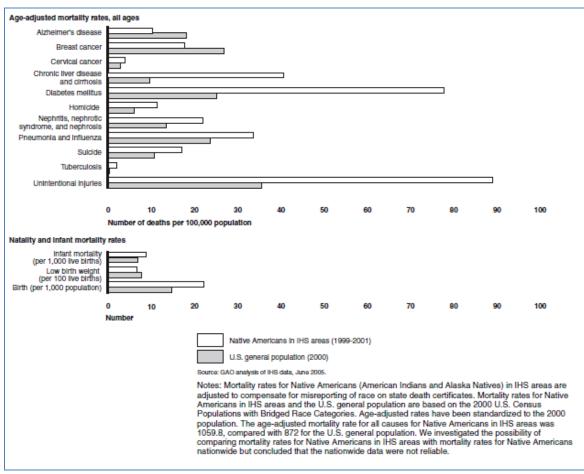


Figure 2. Key Differences in Health Status Indicators for American Indians and Alaskan Natives in IHS Areas and the United States General Population.

Source: GAO Report, 2005

diseases and Sudden Infant Death Syndrome (WWAMI Rural Health Research Center 2008). Diabetes disproportionately affects Native women whereas suicide and injuries disproportionately affect Native men (Rhoades 2003). The age-adjusted death rate for tuberculosis is 500% higher than the U.S. general population, and the age-adjusted death rate from alcoholism is 740% higher (Noreuil 2010). In Oklahoma American Indian and Alaska Native patients experienced longer hospital stays than their white counterparts, controlling for the influence of financial incentives and surrogates for medical need, likely due in part to unmeasured medical need (Khaliq 2003).

American Indian and Alaska Native adults are far more likely than other ethnic groups to have experienced serious psychological distress within the past 30 days or to have felt hopeless or worthless most or all of the time within the past 30 days (Barnes 2005). More prevalent mental illnesses in two well-characterized Native American populations compared with the general population in the U.S. include panic disorder, post-traumatic stress disorder, anxiety disorders, alcohol dependence, and any substance use disorder, yet lifetime help-seeking for patients meeting the criteria for a diagnosis was low (Beals 2005). Among Native American youth living on reservations, inhalants, alcohol, marijuana and tobacco use are more prevalent than in White youth (Hawkins 2004). One study found a prevalence of alcohol abuse of 11% among Native adolescents, a 9%

prevalence of marijuana abuse and dependence, and a 4% prevalence of other substance abuse dependence (Novins 2000). Disparities between Native American youth and the general population in other psychiatric disorders are inconsistent across studies, but the prevalence of disruptive behavior disorders may be higher among Native American youth (Novins 2000). These patterns vary across tribes, however (Novins 2000).

Several local studies of urban health disparities between American Indians and Alaska Natives and Whites show higher rates of low birth weight, risk factors for poor birth outcomes, communicable diseases, mortality among nonelderly individuals, injuries, and alcohol related deaths among urban Natives (Castor 2006). Birth rates among teenage urban American Indian and Alaska Native mothers are 80% than in all other groups, and with the exception of mother's smoking status all risk factors for poor birth outcomes and infant deaths are more prevalent among urban Natives using IHS services than among Natives living on reservations, with the largest urban/reservation difference in the rates of alcohol consumption during pregnancy (Castor 2006). However, a more inclusive study comparing urban and rural American Indian and Alaska Native birth outcomes and risk factors for poor birth outcomes reported minimal differences between the two groups, with poorer health status in rural areas (Baldwin 2002). Sudden Infant Death Syndrome is the leading cause of infant mortality in urban Natives and over time rates in all groups except urban Natives have decreased (Castor 2006). Mortality rates for the leading causes of death are lower in urban Natives than in the overall American Indian and Alaska Native population, with the exception of alcohol and drug related deaths, but rates of diabetes, chronic liver disease, cirrhosis, unintentional injuries, and infant mortality are still higher than in the general population (Castor 2006).

Over 1972-1996 significant improvements in the health status of American Indians and Alaska Natives have been measured in the areas of infectious diseases and injury, alcoholism, chronic liver disease, and overall mortality and life expectancy (Berry 2004). Much of the reduction in mortality in American Indians and Alaska Natives has been the result of fewer deaths from injury (Ring 2003). A comparison of infectious disease hospitalizations in 1980 and 1994 revealed that the improvements seen in most age groups were not apparent in Elders, however (Holman 2001). In 1994 major health disparities remained in rates of tuberculosis, cellulitis, oral infections, osteomyelitis, liver disease, infections during pregnancy, and neonatal infection rates (Holman 2001, Holman 2010). In recent years with the shift in the disease burden toward chronic diseases, Native health status has hardly continued to improve and overall gains in health are eroding due to poor access to primary health care (Berry 2004).

# 6.10 Level of out-of-pocket expenditures or cost-sharing

Estimated annual out-of-pocket expenditures on health by Indians reached \$600 per capita per year in 1996 (Kunitz 1996). Whereas IHS and tribal clinics provide services free to eligible clients, medical and dental services at urban Indian programs are provided on a sliding fee basis for primary care, and referrals for inpatient hospital care, specialty services, diagnostics, etc. are at the client's expense (Forquera 2001). Many Native Americans utilizing IHS services also have public or private health insurance to make up for gaps in health services available on the reservation (DeNavas-Walt 2006). Transportation costs for rural natives are often not covered by health insurance (Upper Midwest Rural Health Research Center 2007).

Only 36% of American Indians and Alaska Natives had private health insurance coverage in 2006, and 24% rely on Medicaid coverage (Office of Minority Health 2009). Barriers to Medicaid

enrolment are cultural, administrative, and discriminatory (Forquera 2001). Over 2003-2005, 30% of American Indians and Alaska Natives were uninsured (DeNavas-Walt 2006). IHS services only partly make up for this lack of insurance coverage (Zuckerman 2004). Among American Indians and Alaska Natives not covered by IHS services, the uninsured rate is 23% (Brown 2000). Only 15% of parents of low-income uninsured American Indian and Alaska Native children reported "not needing insurance" as their reason for not purchasing insurance or enrolling in an insurance benefit (Blumberg 2005). There is a 20-fold difference in the uninsured rate between American Indian and Alaska Native elders over age 65 years and the U.S. general population of the same age, with insurance coverage lowest for elders living on reservation or trust land (Upper Midwest Rural Health Research Center 2007).

## 6.11 Effects of data limitations on measurement of inequalities

The assessment of health disparity involves estimating the burden of disease within a community, measuring the community's access to care, and comparing the outcomes of this care among population groups. This assessment should inform public policy and the allocation of resources to improve any observed inequality. The validity and accuracy of health disparity data are reduced when health and demographic data are neither reported accurately nor completely (Stehr-Green et al., 2002). Ultimately, improved understanding of American Indian and Alaskan Native health related inequalities can provide the foundation for programmatic activities to remove health disparity (Table 1).

Inadequate data on the health and wellbeing of American Indians and Alaskan natives poses potential problems for the accurate measurement of health inequalities as well the accurate application of programs and funds towards disparity in health status and care. Lack of data can cause errors of omission when they are interpreted to mean that no health inequality or problem exists (Stehr-Green et al. 2002). Unique patterns of disease or behavioral characteristics correlated with disease may not be identified or addressed. Insufficient and inaccurate data prohibit comparisons among tribes, underserved populations, and impair the ability to determine whether a health problem is emerging or simply previously undocumented. In terms of funding, agencies may not support selected programs because health conditions are unrecognized within collected data. Limited data from some American Indian and Alaskan Native populations may be generalized to other or even all American Indian and Alaskan Native communities. This results in the application of programs, resources, and funding to problems which may or may not exist in all communities. Important health care delivery infrastructure such as staff, facilities, and resources both on and off the reservation may not be committed to support emerging health needs when their allocation is based upon insufficient data (Burhansstipanov and Satter, 2000). Further, data which validates disparities in healthcare utilization and treatment outcomes may be absent.

	Potential Beneficial Uses of Accurate Data	Potential Hazards of Inaccurate Data
1.	Help tribal nations, health boards and urban Indian clinics identify health priorities.	<ul> <li>1A. Limited tribal fiscal resources are allocated for problems that may be of less concern to the local community.</li> <li>1B. Insufficient data are interpreted as <i>there not being a problem</i> rather than as a data error or lack of inclusion in dat collection (e.g., low participation in Behavioral Risk Factor Surveillance System caused by lack of telephones).</li> </ul>
2.	Help funding agencies recognize unmet needs within selected communities.	<ol> <li>Funding agencies do not support selected programs because the health condition is "unrecognized" as a problem by the data.</li> </ol>
3.	Justify the need for unique programs within tribes, counties, states, regions, and territories (data from 1 region of the country cannot be generalized to another region or tribe, so use of data from a southwestern region misrepresents the seriousness of selected problems among Northern Plains tribes).	<ol> <li>Funding agencies erroneously assume that data from 1 part of the country are generalizable to another tribal community. Thus, if smoking is not a problem in the Southwest, the agency may believe it is not a problem among Northern Plain tribes.</li> </ol>
4.	Document behavioral practices that are related to health and disease.	4. Lack of data is interpreted to mean that <i>there is no problem behavior</i> (e.g., habitual tobacco use).
5.	Clarify the disparity and variation in disease rates among population groups.	<ol> <li>Unique patterns of disease for a specific tribal community an not identified as problems or addressed.</li> </ol>
5.	Clarify the effect selected behaviors have on disease or health in selected populations or regions of the country.	<ol> <li>Lack of local behavioral data frequently results in inaccurat conclusions (e.g., elevated suicide rate among northwester tribes was not associated with the events, such as caring for dying family member and insufficient grief support).</li> </ol>
5.	Document unique disease patterns among small communities (who remain underserved communities).	<ol> <li>Unusual patterns continue to go unnoticed by local trib programs, and subsequently more community members ca be affected (e.g., HIV and sexual activity with multip partners).</li> </ol>
3.	Obtain sufficient resources to address selected health problems.	<ol> <li>Infrastructures (including staff, facilities, resources on and of the tribal community reservation) are not available to support the growing health problem.</li> </ol>
9.	Set research priorities at federal (e.g., Department of Health and Human Services, National Institutes of Health, Centers for Disease Control and Prevention, Indian Health Service) and state agencies to serve the needs of American Indian and Alaska Native communities.	<ol> <li>Federal documents tend to use New Mexico or Arizona da when setting research priorities. Thus, elevated problems for other tribal communities are not acknowledged in feder priorities (e.g., Native American breast cancer).</li> </ol>
10	Allow tribal health data to be compared with data for other medically unserved or underserved populations and nations.	10.Insufficient and inaccurate health data prohibit comparison among (1) tribes, (2) underserved populations (e.g., Nativ Hawaiians and American Indians), and (3) racial/ethn grouips (e.g., Native Americans and Whites).
11	Document health trends over time.	<ul><li>12.Inability to determine if a health problem is "new" or simp previously undocumented.</li></ul>

# Source: Burhansstipanov and Satter, 2000.

# 6.12 Policies

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# History of funding policy

U.S. federal funding for Native American health care services was first streamlined in response to a tuberculosis epidemic in Indian boarding schools in 1911, and not until 1930 did the Bureau of Indian Affairs stipulate that all Indians belonging to a recognized tribe were entitled to health care services

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administered by the federal government (Graleski 2005). The Indian Health Services (IHS) was created in 1954, and was authorized to grant funds for the construction of community hospitals in 1953, but at this time there was still no statutory device that guaranteed funding for Indian health resources (Forquera 2001, Graleski 2005). Only in 1976 did the Indian Health Care Improvement Act acknowledge the federal government's obligation to provide health care for Native Americans (Graleski 2005). The present distribution of IHS facilities, personnel and services has evolved primarily in response to Congressional appropriations, directives, and administrative and legal decisions that override deliberate health systems planning, resulting in an uneven distribution of services despite the federal aim of equitably distributed resource allocation, and over recent years funding for resource allocation planning has fallen through and targets have not been updated (Pfefferbaum 1997). As of 2006 there is a \$429 million backlog for essential maintenance, alteration, and repair of Indian health facilities (Smith 2006).

The Indian Self-Determination and Education Assistance Act of 1975 authorized the Secretaries of Interior and Health and Human Services to contract with, and make grants to, Indian tribes and other Indian organizations for the planning, administration and delivery of federal services, and with amendments to this act in 1988 the tribes are free to take IHS programs and allocate and structure them as they deem necessary (Graleski 2005). Funding allocations for federal programs have failed to respond to inflation and population growth, leading to major shortfalls (Graleski 2005). As of 2001, 53% of the IHS budget for medical care was managed by tribes, with most of the remainder still running IHS operated hospitals, outpatient health centers, and smaller health stations; 17% of the IHS budget purchases non-tribal private sector health services not available at IHS facilities (Forquera 2001). Pressure to contract with the federal government to provide services arises from competition for IHS funding, and increasingly tribes face a choice between competing for resources themselves or seeing resources allocated away to other tribes that do have contracts to provide services themselves (Kunitz 1996).

The trend toward tribal self-determination threatens the already weak Urban Indian Health Program within the IHS (Trombino 2005). The Indian Health Care Improvement Act of 1976 requires the U.S. Department of Health and Human Services to contract with urban Indian organizations to provide health programs for urban American Indians and Alaska Natives, but these programs have been disproportionately underfunded (Brown 2000). In 1992, Congress amended the Act to require a policy that assures the highest possible health status for Indians and urban Indians and to provide all resources necessary to effect that policy (Graleski 2005). But by 1997, only 1.4% of the IHS health services budget was appropriated for urban Indian health services, although 60% of American Indians and Alaska Natives now live in urban areas off-reservation (Brown 2000). Several cities independently developed health services for urban Natives (Forquera 2001).

The U.S. government initiated mental health programs for Native Americans in 1965, but funding for these services has always been low compared to the relative need (LaFromboise 1988). A survey of patient caseloads in urban health clinics in 1978 indicated that 30% of presenting complaints were attributable to mental health programs, yet in 1985 funding for mental health services and alcoholism services amounted to only 7.3% of the total IHS budget (LaFromboise 1988). In 1997, the total IHS budget for mental health amounted to \$23 per person (Novins 2000). Although mainstream mental health services are technically available to many Native Americans as well, these services are far less likely to be culturally sensitive (Gone 2003). In 1985, the IHS convened a series of working groups to develop a plan for combating alcohol abuse, and the Indian Alcoholism Initiative of the Secretary of Health and Human Services charged an interagency task force with providing permanent programs combating alcoholism in 1986, with activities initially focusing on prevention (Rhoades 1988). Not

until 2000 did the IHS begin to merge mental health and substance abuse programs into a single "Behavioral Health" program branch to remove barriers to treatment of Native Americans with comorbid substance abuse and other psychiatric disorders (Novis 2000).

Overall funding increases are grossly inadequate to cover the costs of inflation, population growth, and salary increases – the Health and Human Services budget justification for FY 2005 indicated that across dental health services, mental health services, alcohol and substance abuse treatment programs, contract health services, and public health nursing programs, all levels of budget increases would fall so far inadequate of need that fewer services would be provided than in the preceding fiscal year (Figure 3) (Berry 2004). These trends are related to external pressures to reduce the overall cost of health care in the United States while the costs of medical services increase faster than national incomes (Holkup 2002).

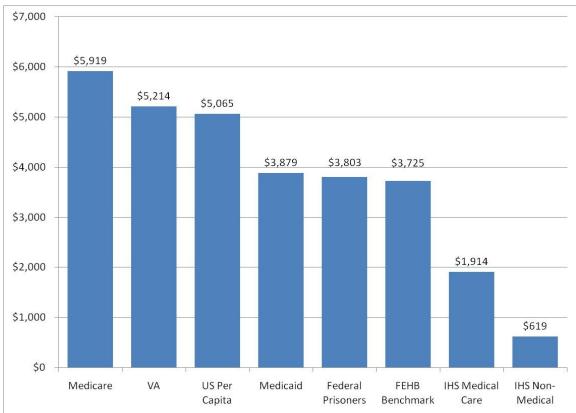


Figure 3. Comparison Between IHS Appropriations Per Capita and Other Federal Health Expenditures, 2003.

Source: U.S. Department of Health and Human Services, Indian Health Service, Office of Management Support, Division of Financial Management, "IHS Appropriations Per Capita Compared to Other Federal Health Expenditure Benchmarks," March 2003, submitted by fax Mar. 27, 2003.

# 6.13 How to raise more money, or enough

Over the decades, the existing health care system whether managed by IHS, tribes, or urban programs, has had to broaden its base of financial support in order to respond to the needs of the growing population of American Indians and Alaskan Natives. In 2000, Congress enacted a bill allowing all three types of medical care providers for American Indians and Alaskan Natives (IHS, tribal, and

urban) to bill directly for services provided to Medicaid and Medicare beneficiaries (IOM 2003). Even though there is now a process for American Indians and Alaskan Natives to access Medicare and Medicaid for the provision of healthcare, these services are still underutilized (Joe, 2003). American Indians and Alaskan Natives are still the least likely of all racial groups to access Medicaid and even less likely to access to access Medicare (71% of eligible American Indians compared with 96% of Whites) (Joe 2003).

In order to enhance existing funding for the health care of American Indians and Alaskan Natives, which may be inadequate through the delivery of services through IHS, the Indian Health Care Improvement Act Amendments establish Contract Health Services (CHS) funds. These funds allow for IHS to act as a 'payor of last resort' for individuals who are already utilizing alternate resources for health care including Medicare, Medicaid, private insurance, and IHS facilities (GAO 2005). However, the inadequate funding of CHS continues to directly impact patient care, even delaying treatment and diagnosis and drives patients to accept cheaper medical intervention or to go without health care altogether (Joe, 2003). Tribes are also engaged in procuring funding to supplement the shortfalls in the IHS budget. For example, the Healthy Alaska Natives Foundation holds annual community fundraisers to promote the group's work and to raise money to offset a shortfall in IHS funding (Ben-Yosef 2009).

Tribally managed health care initiatives that have been able to tap into other financial resources have initiated prevention based programs such as wellness campaigns, adolescent treatment programs, substance abuse treatments, integration of traditional tribal healing practices, and disease prevention programs (Joe, 2003). The scope of these activities is limited by the private (meaning tribal) and public funds available to tribal governments. Studies suggest that American Indian and Alaskan Native governments are at an increased disadvantage to procuring federal grants for managed healthcare initiatives due to limited resources which reduce the potential to identify grant opportunities, apply for grants with matching funding requirements, prepare successful grant applications, and develop the infrastructure needed to meet all grant management requirements (DHHS 2006).

Options for strengthening the American Indian and Alaskan Native health care system have been proposed both internally by the United States federal government as well as national programs for health care research. Suggested options available to the federal government include recommendations for the full funding of the IHS mandate by increased appropriations to account for population growth and increases in national health expenditures, expansion of the enrollment of American Indians and Alaskan natives into other federal health programs through benefits assistance and counseling for improved enrollment and retention into these programs (HCFO 2009). State options which have been proposed include collaboration between state Medicaid and Children Health Insurance programs, tribes, and IHS to increase enrollment in these programs (GAO 2005). IHS specific options to leverage more funds for the care of American Indians and Alaskan Natives include the development and implementation of a business model for IHS and the expansion of the CHS program which would allow for improved partnerships with local health care systems (HCFO 2009).

# 6.14 Current or planned policies

In 2009, the Indian Health Care Improvement Act was enacted to reauthorize the original Indian Health Care Improvement Act which funds IHS. The original Indian Health Care Improvement Act was amended to revise requirements for health care programs and services for American Indian and Alaskan Natives in order to address demonstrated disparities in programs, funding, and outcomes (HCFO 2009). The Amendment replaced the Urban Health Programs Branch with a Division of

Urban Indian Health in order to underscore the objective of providing direct health care for urban dwelling American Indians and Alaskan Natives. The Amendment authorizes grants for health information technology, telemedicine services development, and related infrastructure improvements for tribal community health programs. It specifically directs the IHS to provide programs of comprehensive behavioral health, prevention, and treatment (Heisler and Walke 2010).

The amendment of the Indian Health Care Improvement Act expands American Indian and Alaskan Native access to IHS funds by excluding from calculations of gross income any services or benefits provided or purchased by IHS and any services or benefits provided by a tribe or tribal organization, directly or through insurance. The amendments expand coverage for qualified American Indians and Alaskan Natives in State Children's Health Insurance Program, authorizing payments from these and all other federal aid programs (e. g. Medicare and Medicaid) to Indian Health Programs operating within a state (Heisler and Walke 2010).

#### 6.15 Monitoring and Evaluation

#### **Recommendations for targets**

In 2004, the U.S. Civil Rights Commission made numerous recommendations to the U.S. Congress concerning Indian health, based on a Congressional briefing, interviews, research and a review of the relevant literature (Berry 2004). The Commission recommended educating and training health care providers on cultural safety, recruiting more health care providers, increasing retention rates for IHS health care providers, improving program monitoring and evaluation, modernizing data collection, increasing appropriated funding levels, increasing enrollment in public insurance programs, and increasing collections from third party insurers (Berry 2004). The Commission also noted that the IHS has, in many cases, identified solutions to health problems pervasive in Indian Country, yet Congress has failed to provide the resources necessary to implement those solutions, and that the rapid implementation of these remedial measures is necessary (Berry 2004).

#### 6.16 Structured framework for action?

Despite the recognized need for accurate health data, agreement on appropriate health indicators, and collaborative efforts for data collection, dissemination and utilization, there are few if any formalized or structured efforts for improving American Indian and Alaska Native health data. The challenges of collecting accurate health data for the US Indigenous population – a small percentage of the total US population, geographic dispersion of the Indigenous population, difficulties in contacting Indigenous households, and misclassification of Indigenous status for births, deaths and other administrative data – call for more research on ways to obtain accurate health data for the entire Indigenous population of the United States. Past experience with flawed health policy that was based on inaccurate data or on information limited to a specific tribe or other subgroup shows the pitfalls of relying on poor-quality information. Improving the quality of health data for the US Indigenous will require a national commitment to address the challenges described in this report.

A national program to improve Indigenous health data should include the training of tribal members on health data collection and analysis. Developing this expertise within the Indigenous population will enable the tribes to participate in monitoring the health status of their members. It will also ensure that tribal members will have the skills to participate in the debate over new approaches to measuring Indigenous health status and in the development of appropriate health policy. Acknowledgements:

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Ralph Forquera, Seattle Indian Health Board

Savanna Reid, University of Nevada Las Vegas

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# Annex 1. Inputs shared by Governments, Ministries of Health or other specialized agencies

We see that this process of collaboration, trust and respect is one example of how Indigenous researchers and governments can effectively work together towards developing standard data definitions, collection methodologies, analytical approaches to that data and agreed methods of interpreting and reporting. Moreover, further work will continue on ways to improve data on appropriate indicators and facilitate information sharing, in order to use this knowledge gained to develop and implement ways to reduce health inequities among Indigenous and non-indigenous populations.

This paper (the four country case sections and the four country annexes) provide a basis for rich discussion, within each country, across the four countries that share similar concerns to improve the health of their Indigenous Populations even if the context in each country differs, and very importantly, learning for individuals, communities and organizations in other countries that also share a common interest to improve the health of Indigenous Peoples.

We gratefully acknowledge each country's Government, Ministry of Health, or other national statistical and health data agencies and their staff who contributed or enabled contribution to the World Health Report 2010 and this background paper, including Sandra Black, Rene Dion, Luke Jones, Terry Moran, Ruth Nicholls, Sam Notzon, Jillian Oderkirk, Debra Reid, Stephen Salzano, Paula Searle, Natalie Talamaivao, Vanessa Woodlock, Nancy Zukewich and others.

These inputs are divided into sub-sections and follow:

- A1: Aotearoa New Zealand
- A2: Australia
- A3: Canada
- A4: USA

In addition to these inputs, data tables from several countries were also shared. Readers are encourage to request this information from the author for correspondence: <u>lisa.jackson-pulver@unsw.edu.au</u>.

# A1: New Zealand

# World Health Report 2010: Financing for Universal Health Coverage

# **New Zealand**

#### **New Zealand Context**

## **Demographic profile**

New Zealand has a population of just over four million. There were 565,329 people who identified as belonging to the indigenous Māori ethnic group in the 2006 Census, representing 15% of the total population.

In common with many other OECD countries New Zealand's population is also ageing. In comparison with non-Māori, Māori constitute a very youthful population (see Figures 1 and 2): 35 percent of Māori are aged less than 15 years, compared with only 19 percent of non-Māori. The number of Māori children is projected to increase in coming years, at the same time the proportion of Māori aged 65 years and older is also growing (projected to increase from 4 percent in 2006 to 8 percent in 2021)

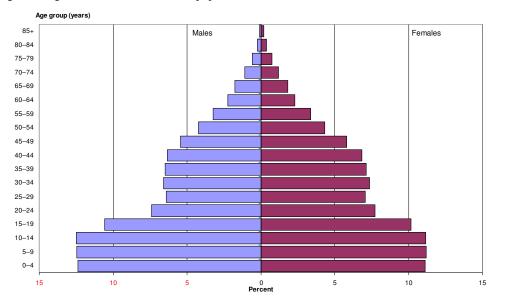


Figure 1: Age distribution of the Māori population, males and females, 2006

Source: Statistics New Zealand

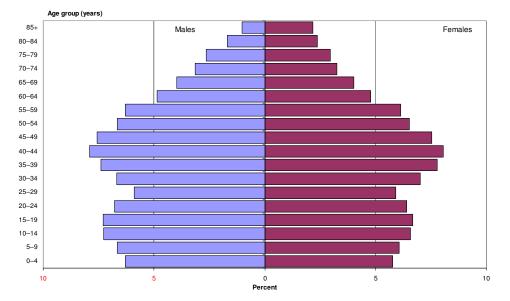


Figure 2: Age distribution of the non-Māori population, males and females, 2006

Source: Statistics New Zealand

The Māori population has a high growth rate (average annual increase of 1.4 percent) relative to non-Māori (average annual increase of 0.7 percent). Between 2011 and 2026, the Māori population is predicted to grow by 21 percent, whereas the non-Māori population is predicted to grow by only 11 percent. There are a number of drivers of this higher population growth for Māori, including a higher fertility rate for Māori females compared with non-Māori females (a higher number of births per woman of childbearing age); in 2008, the Māori total fertility rate was 2.95, compared with 2.01 for non-Māori<sup>10</sup>. Another factor is that the Māori population has a younger age structure, with a relatively large proportion in the main reproductive ages (15–44 years).

# Supporting notes for data on Inequalities in Access, Health Risks and Outcomes, and Out-of-pocket Expenditures

The health and disability system does not always work as well as it should for all populations and in particular for the Māori population. We can see this in terms of the inequalities that exist between Māori and non-Māori (eg, in high-level indicators such as life expectancy and infant mortality). There are also pronounced disparities across a range of health conditions, with Māori having higher rates of chronic disease, including cancer, diabetes, cardiovascular disease and asthma. Therefore, one of the biggest challenges for the health and disability system is to improve its performance so that it can deliver on some of its fundamental principles of fairness and equity and ensure New Zealanders live long, healthy and independent lives.

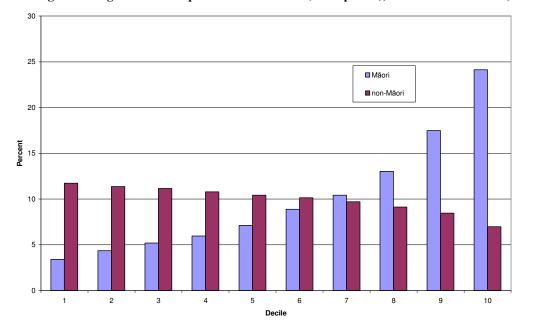
The primary health sector is usually the first point of contact an individual has with the health system. General practitioners (GPs) and practice nurses are the health professionals most often encountered in the primary health care sector. Māori adults were equally as likely as non-Māori adults to have seen a GP in the last 12 months (RR 1.00, CI 0.98-1.03), however, they were more likely to have not gone when needed due to cost.

<sup>&</sup>lt;sup>10</sup> The total fertility rate is the average number of live births that a women would have during her life if she experienced the age-specific fertility rates of a given period (usually a year). It excludes the effect of mortality.

Government funding is provided only for child and adolescent oral health, adult dental services are paid for outof-pocket in New Zealand. Māori adults were less likely than non-Māori adults to have visited a dentist in the previous year (RR 0.72, CI 0.66-0.77) and more likely to have not visited the dentist due to cost.

It should be noted that socioeconomic determinants are linked to risk and protective factors, which in turn impact on health outcomes. Consequently, inequalities in socioeconomic position between Māori and non-Māori are likely to contribute to inequalities in individual risk and protective factors.

Figure 3 shows that higher proportions of Māori live in areas with the most deprived NZDep2006 scores<sup>11</sup>. In 2006, 24 percent of Maori lived in decile 10 areas (compared to with 7 percent of non-Maori), while only 3 percent of Māori live in decile 1 areas (compared with 12 percent of non-Māori).





Least deprived



Source: Salmond et al 2007<sup>12</sup>

Adult Māori are twice as likely as non-Māori adults to smoke tobacco (RR 2.32, CI 2.013-2.50). Māori females had the highest prevalence of tobacco smoking, with 50 percent reporting being a current smoker. Also, Māori adults were one-and-a-half times more likely to be obese than non-Māori (RR 1.86, CI 1.74-1.99).

The self-reported prevalence of diabetes was almost double for Māori than non-Māori populations (RR 1.78, CI 1.42-2.14).<sup>13</sup> Additionally, there are very high disparities between Māori and non-Māori for diabetes

<sup>&</sup>lt;sup>11</sup> NZDep2006 is a small-area-based relative deprivation index based on nine socioeconomic variables from the 2006 Census. NZDep2006 scores are usually categorised into tenths (deciles), numbered from 1 (least deprived) to 10 (most deprived). NZDep2006 describes the deprivation experienced by groups of people in small areas and describes the general socio-economic deprivation of an area. It does not describe the deprivation of an individual.<sup>12</sup> Salmond C, Crampton P, Atkinson J. 2007. *NZDep2006 Index of Deprivation*. Wellington: Department of Public Health, University of

Otago. <sup>13</sup> Note that self-reported diabetes underestimates the true prevalence because some people living with type 2 diabetes have not yet been

diagnosed.

complications (renal failure and lower limb amputations). Population rates of renal failure with concurrent diabetes (aged 15+) were over eight times higher in Māori compared with non-Māori. Similarly, population rates of lower limb amputation with concurrent diabetes were over four times higher for Māori compared with non-Māori.

Self-report prevalence of cardiovascular disease was higher for Māori compared with non-Māori. Cardiovascular disease mortality, stroke mortality and heart failure mortality rate are all higher for Māori than for non-Māori.

## **Government Strategies**

The New Zealand Health Strategy, the New Zealand Disability Strategy, the Primary Health Care Strategy, and He Korowai Oranga: the Māori Health Strategy<sup>14</sup> are all key strategies that guide sector's decision-making. These strategies articulate the expectation that Māori have equitable access to clinically effective and culturally appropriate health and disability services.

#### The New Zealand Health Strategy

The New Zealand Public Health and Disability Act 2000, is a guiding piece of legislation for the publicly funded health and disability system. The Act was introduced with an objective to reduce health disparities by improving the health outcomes of Māori and other population groups.

The New Zealand Health Strategy, a statutory requirement under the NZPHD Act, has seven guiding principles:

- acknowledgment of the special relationship between Māori and the Crown under the Treaty of Waitangi
- good health and wellbeing for all New Zealanders throughout their lives
- an improvement in health status of those currently disadvantaged
- collaborative health promotion and disease and injury prevention by all sectors
- timely and equitable access for all New Zealanders to a comprehensive range of health and disability services, regardless of ability to pay
- a high-performing system in which people have confidence
- active involvement of consumers and communities at all levels.

#### He Korowai Oranga: Māori Health Strategy

He Korowai Oranga: the Māori Health Strategy 2002 is the Ministry of Health's five to ten year direction for Māori health development in the health and disability sector. He Korowai Oranga is set within the government's broader health and disability sector policy, particularly the New Zealand Health Strategy.

The aim of He Korowai Oranga is 'whānau ora' – broadly defined as Māori families supported to achieve their maximum health and wellbeing. The term 'whānau' is not limited to traditional definitions, but recognises the wide diversity of families represented within Māori communities. The strategy builds on the integral strengths and assets of whānau.

The three key threads woven throughout He Korowai Oranga are: acknowledging Māori aspirations for rangatiratanga (control) over their own lives, maintaining and building on the gains already made in Māori

<sup>&</sup>lt;sup>14</sup> Minister for Disability Issues. 2001. New Zealand Disability Strategy: Making a world of difference – Whakanui Oranga. Wellington: Ministry of Health.

Minister of Health. 2000. The New Zealand Health Strategy. Wellington: Ministry of Health.

Minister of Health and Associate Minister of Health. 2002. *He Korowai Oranga: Māori Health Strategy*. Wellington: Ministry of Health. Ministry of Health 2009c. *Statement of Intent 2009–2012*. Wellington: Ministry of Health.

health, and reducing the inequalities that currently exist between the health and wellbeing of Māori and other population groups.

There are four pathways to guide those involved in Māori health planning:

- Development of whānau, hapū, Iwi and Māori communities
- Māori participation throughout the health and disability support sector
- Effective health and disability support services
- Working across sectors.

These four pathways are underpinned by a fifth pathway, which emphasises the importance of good quality data, monitoring and evaluation in order to achieve the aims of whānau ora.

#### The Treaty of Waitangi

The Government is committed to fulfilling the special relationship between iwi and the Crown under the Treaty of Waitangi. The Treaty of Waitangi was signed in 1840 by the indigenous Māori and European settlers.

Principles of Partnership, Participation and Protection (derived from the Royal Commission on Social Policy) underpin the relationship between iwi and the Crown, and these principles are threaded throughout He Korowai Oranga.

Partnership - Working together with iwi, hapū, whānau and Māori communities to develop strategies for Māori health gain and appropriate health and disability services.

Participation - Involving Māori at all levels of the sector, in decision-making, planning, development and delivery of health and disability services.

Protection - Working to ensure Māori have at least the same level of health as non-Māori, and safeguarding Māori cultural concepts, values and practices

#### **Future Directions**

The Government is committed to building and sustaining a strong health care system that provides better, sooner, more convenient health services for all New Zealanders. This involves reducing waiting times and delivering better experiences for patients and their whanau/families, improving the quality and performance of health care services, and supporting the health workforce in its delivery of services to Maori.

The Government's key policy principles to achieve this include:

- *putting patients first* making sure patients are in control of their own care and able to make informed choices
- *care close to home* health care services being easily accessible and provided by the most skilled professionals with access to the best medical technology
- *integrated care* bringing together the skills of practitioners and staff from different services areas, including social and community organisations, to promote wellbeing and provide the best care for patients
- *trusting health professionals* ensuring doctors, nurses, and other health professionals are trusted, valued and fully-engaged to provide better care and treatment
- *working together for better care* encouraging communities, management, and health professionals to take responsibility for shared decisions, and demonstrate innovation

• *healthier lifestyles* – empowering New Zealanders to take better care of their health, and increasing access to better health information.

The Ministry of Health's Statement of Intent 2009-2012 details the Ministry's priority outcomes for the next three years. The Government and the Ministry of Health have made improving Māori health or whānau ora one of the seven key priority areas within the SOI. Having whānau ora as a priority demonstrates the government's commitment to improving health services and health outcomes for Māori whānau. The Ministry will work to realise these government expectations to ensure that whānau:

- experience physical, spiritual, mental and emotional health and have control over their own destinies
- live longer, and enjoy a better quality of life
- participate in te ao Māori and wider New Zealand society.

#### **Health Targets**

In 2007/08 'health targets' were introduced to focus resources on areas of greatest need, to left sector performance, to ensure value for money, and to contribute to over al health improvement and the reduction of inequalities. Health targets are reviewed annually to ensure they are relevant and align with the Government's health priorities of the time. Health targets are the joint responsibility of the Ministry of Health and DHBs, with DHBs and service providers responsible for delivering on each of the health targets. The Ministry of Health is responsible for monitoring DHB performance. In turn, the Ministry reports regularly to the Minister of Health.

For the 2009/10 year there were six health targets:

- Shorter stays in emergency departments
- Improved access to elective surgery
- Shorter waits for cancer treatment
- Increased immunisation
- Better help for smokers to quit
- Better diabetes and cardiovascular services

Health targets areas where Maori are over-represented include: cancer, immunisation, smoking, diabetes and cardiovascular disease. Smoking, cardiovascular disease mortality rates by ethnicity as well as the gap between Māori and non-Māori for acute coronary syndrome, stroke and the life expectancy have all reduced over time. Despite these recent positive changes, Maori are over-represented among those living with long-term conditions. A focus on health targets can improve the delivery of health care to Maori.

#### Organisation of health services and delivery systems

The organisation of health and disability support services in New Zealand has undergone a number of changes in the last decade. These have ranged from a 'purchaser/provider' market-oriented model introduced in 1993 to the more community-oriented model that is currently in place. New Zealand currently has a partially devolved public health system.

All parts of the health and disability sector are responsible for improving Māori health outcomes and reducing inequalities. The central mechanism for funding primary, secondary and tertiary health and disability services is the network of 21 District Health Boards (DHBs). DHBs are the major provider of hospital-based services, as well as some community-based health and disability services.

Primary health care is provided by primary health organisations (PHOs), which contract with DHBs for the bulk of their funding. The first PHOs were introduced in 2002 as the cornerstone of the implementation of the Primary Health Care Strategy. PHOs play a key role in delivering Government and community priorities for

primary care at a local level. They are required to work with groups in their populations that have poor health or are missing out on services to address their needs. All New Zealanders enrolled with PHOs can avail themselves of low or reduced-cost primary care services, including office-based general practice care and pharmaceuticals (maximum of \$3 co-payment). As at 1 July 2009, over four million New Zealanders (around 95 percent of the New Zealand population) were enrolled with the approximately 80 PHOs.

Primary health care includes first-level services such as general practice, mobile nursing and community health services targeted at certain conditions. These community health services include maternity, family planning and sexual health, mental health and dentistry services, or particular therapies such as physiotherapy, chiropractic and osteopathy services. Chronic diseases, such as diabetes, are best managed by primary health care services so that complications can be prevented or mitigated.

Public sector funding is the major source of funding for health and disability support services in New Zealand. Approximately 78% of total health expenditure is paid for by government funds. Of total health expenditure, 67% is from Vote Health, which pays for core health services such as hospitals, primary care, public health, mental health, addiction services, and care for older people. Most of the remaining public funds (10%) are from ACC (Accident Compensation Corporation), which pays for accident and injury prevention and treatment. Private insurance pays for less than 6% of total health expenditure, while out-of-pocket spending accounts for between 16 and 17%. These levels have remained roughly the same for the past 20 years.

Māori health and disability providers are a distinctive feature of the New Zealand health sector and play a crucial role in developing health services that work for Māori. There are approximately 275 Māori health and disability providers nationwide, providing diverse services and delivering them in ways that empower Māori and their whānau to take control of their health and wellbeing. In 2008/09, the estimated funding specifically for Māori health and disability providers accounted for only about 2 percent of health and disability expenditure – with the overwhelming proportion of health and disability funding going to mainstream providers.

#### Policies and Programmes to Improve Coverage and Access – The Primary Health Care Strategy

#### Background and priorities of the reforms

During the late 1990s, there was considerable debate within New Zealand about the problems associated with primary health care provision – particularly with regard to inequalities in access to primary health care for some population groups. Exploring these options involved considering the different ways in which New Zealand might change policy in order to address these problems.

In the New Zealand Public Health and Disability Act 2000, a guiding piece of legislation for the publicly funded health and disability system was introduced with an objective to reduce health disparities by improving the health outcomes of Māori and other population groups. District health boards were established in 2001 and were charged with establishing primary health organisations, following the release of the Primary Health Care Strategy in 2001.

The Strategy provides direction for the future development of primary health care. One of its central aims is reducing health inequalities between different groups of New Zealanders by improving access to primary health care services. The six key directions for primary health care are:

- working with local communities and enrolled populations
- identifying and removing health inequalities
- · offering access to comprehensive services to improve, maintain and restore people's health
- co-coordinating care across service areas
- developing the primary health care workforce
- continuously improving quality, using good information.

#### National implementation of the Primary Health Care Strategy

In July 2002, the first 2 PHOs were established in South Auckland. At the beginning of 2010, there are 80 PHOs with over 4 million people (95% of New Zealanders) enrolled in PHOs.

Primary health organisations are expected to take a population health approach. This is about promoting wellbeing, keeping people healthier for longer, and directing health and disability services to areas of greatest need. The aim is to have as many people as possible participating in preventative measures for health gain, rather than just treating disease, disorders or disabilities at an individual level, and when they are at an advanced stage.

The implementation of the PHCS to date has been successful across a range of fronts.

The identification of health inequalities is a key focus for PHOs and DHBs, and this issue is regarded by the health system as a core national health priority.

There is evidence of stabilisation or improvement in health inequalities in New Zealand over the past decade, including in relation to infant morality and life expectancy.

There is evidence of improvement in rates of immunisation (an indicator that was a key concern prior to the Primary Health Care Strategy), and in a reduction in inequalities associated with ethnicity in this regard.

It is too early to say whether the Strategy itself, including the activities of PHOs, has contributed directly to what appears to be a slowing in the rate of increase of health inequalities in New Zealand.

Local and national studies of health status, and where possible, of the connection between specific health policy and management interventions and health outcomes, will be critical to demonstrating progress with this area of Strategy implementation.

**Transferable Policy Lessons.** 

## Mainstream Delivery of Health Services

The Ministry of Health has made good progress by offering funding for Services to Improve Access, for Health Promotion, for After Hours services and by funding the Very Low Cost Access and Free Under Sixes programmes and a range of services that have reduced the impact of chronic conditions and preventable hospital admissions. A particular achievement is that in 2009 91.4 percent of children under six receive free standard consultations. This funding has led to a significant reduction in the cost of access and have moved towards having a more comprehensive approach to disease prevention and health promotion.

These findings are significant as prior to the implementation of the Primary Health Care Strategy, a study into Māori experiences of health services reviewed a number studies looking at ethnic group differences in utilisation of primary care services or access to hospital services<sup>15</sup>. These studies have shown lesser access for Māori compared with non-Māori - with barriers for Māori accessing primary care services that are in addition to those related to income and all other variables.

The differential treatment findings were also highlighted in an analysis of the National Primary Medical Care Survey (NatMedCa)<sup>16</sup>. For example, analysis of this information revealed that; the percentage of Māori patients

<sup>&</sup>lt;sup>15</sup> See Jansen P, Bacal K, Crengle S. 2008. He Ritenga Whakaaro: Māori experiences of health services. Auckland, Mauri Ora Associates for further detail about these studies.

<sup>&</sup>lt;sup>16</sup> NatMedCa is a nationally representative study of the characteristics of over 200 GPs and the practices they work in, the patients they see, the problems they manage and the investigations and treatments that they offer. Report 6 of the study compares the experiences of Māori patients with non-Māori patients. In total doctors logged 40,189 consultations, of which 12.2 percent were with Māori

in Māori provider practices (58.9%) was substantially higher than in private GPs (11.8%) or community governed non-profits (19.4%); on average Māori had had fewer healthcare visits in the previous year than non-Māori (mean=6.1 vs. 6.7); tests and investigations were ordered in 21.0 percent of Māori visits, compared to 25.4 percent of non-Māori visits.

## 2. Māori Provision of services

## Te Toi Hauora-Nui: Achieving excellence through innovative Māori Health Services delivery

*Te Toi Hauora-Nui* case-studies provide information about innovative service approaches to improving Māori Health, with a particular emphasis on cardiovascular and diabetes mellitus programmes delivered in a primary health care setting. The report outlines key findings, critical success factors that providers use to achieve successful results, and areas for improvement.

The study examined service structures and approaches that nine Māori Health Providers use to manage chronic conditions and to identify process that lead to successful results.

Māori Health Providers are a key feature in the health and disability sector, with approximately 250 Māori Health Providers situated across New Zealand. Māori Health Providers strive toward whānau ora as an outcome employing Māori cultural frameworks to understand healthcare delivery and a specific focus on providing easier access to services for their patients.

Māori Health Providers services include health promotion and education, support and advice, asthma, cervical and breast screening, well-child, and whānau health. Providers often work in multidisciplinary teams across a number of social areas, not just health. Distinctive features that set Māori providers apart from others include their holistic approach, Kaupapa Māori inspired approach, voluntary contribution, and focus on community wellbeing.

The report describes critical success factors that Māori providers use that lead to successful results. Some factors identified included: leaders and leadership, clinical best practise, people-oriented, holistic care, cultural integrity and responsiveness, relationships, compelling aspiration, and empowering others.

The report highlighted the importance of delivering services specific to the target population, especially if real improvements are to be achieved. It is suggested that services delivered bi-lateral in nature have a higher success rate than mainstream services which do not take into account other cultural practices and approaches.

#### Reference:

Mauriora Ki Te Ao. 2009. Te Toi Hauora-Nui: Achieving excellence through innovative Māori Health Services delivery – A Report Prepared for the Ministry of Health. Wellington: Ministry of Health.

patients (a smaller percentage of Māori than in the general population). Detailed visit information was provided on 9124 visits, of which 12.3 percent were by Māori patients.

#### 3. Getting Better Quality Māori health information

# **Ethnicity Data Quality**

Ethnicity data is essential to the measurement and monitoring of Maori health and inequalities in health status, experiences, and outcomes in New Zealand. New Zealand is an international leader in the collection of ethnicity data in comparison with many countries with an indigenous population. This is the case across a number of domains, but particularly in health where the level of data disaggregation and ability to do time series analysis is relatively robust. It important work continues to protect, maintain and improve the integrity of health ethnicity data. High quality, accessible ethnicity data is fundamental to the Government's commitment to addressing Māori health need.

Ethnicity data is usually collected in the health sector during contact with a health service or provider. Some of the ethnic data that is collected within healthcare settings is reported or recorded on key routine data sets, including the National Health Index (NHI) and databases and registries maintained by the Information Directorate at the Ministry of Health, such as the New Zealand Cancer Registry (NZCR), and the National Minimum Dataset (NMDS).

Whilst there have been improvement in the completeness of ethnicity data in health datasets over the last two decades with a reduction in undercounting of Māori in hospitalisation and mortality datasets - this improvement is incomplete and inconsistent across datasets (Cormack and Harris 2009).

In more recent years, ethnicity data has been collected in the primary care setting. The increase in primary care collection was in part a response to the introduction of the Population-Based Funding Formula, of which ethnicity was a variable. Primary care ethnicity data is often collected as part of the patient registration process. PHO's are required to submit practice registers that includes demographic data (and therefore ethnicity data) in order to be paid. This in turn *may* have resulted in an improvement in ethnicity data collection, however despite this there is still evidence of ethnicity data quality issues within primary health care collections.

This is highlighted by a recent investigation into ethnicity data quality of the PHO Enrolment Register (Ministry of Health 2010). This analysis compared PHO ethnicity data with self-reported ethnicity from the New Zealand Health Survey 2006/07. The investigation found that there appears to have been an improvement over the last three years in the 'undercount' of people with Māori ethnicity. However, it was found that potentially one quarter of Māori adults are not recorded as Māori which remains a substantial undercount of Māori in the PHO enrolment register. The undercount of Māori people in the register presents a serious issue for identifying unmet need, tracking equity and determining resource allocation.

Good quality ethnicity data to monitor Māori health and inequalities remains an ongoing goal. Improvements have been made in some datasets, such as mortality, but further effort is needed to reduce undercounting and misclassification of Māori ethnicity data across all datasets.

#### References:

Cormack D, Harris R. 2009. Issues in Monitoring Māori Health and Ethnic Disparities: An update. Wellington: Te Ropū Rangahau Hauora a Eru Pomare.

Ministry of Health. 2010. Comparison of Ethnicity Data in the PHO Register and the New Zealand Health Survey 2006/07. Unpublished Report. Wellington: Ministry of Health.

# A2: Australia

DoHA's input to the International Group for Indigenous Health Measurement for the background paper to the WHO World Health Report 2010

# This input is for use in compiling the Background Paper to the World Health Report 2010, however once incorporated in the publication it will not necessarily represent the views of the Australia Government.

Australian governments have committed to closing the gap in life expectancy between Indigenous and non-Indigenous Australians within a generation, and to halve the gap in mortality rates between Indigenous and non-Indigenous children within a decade. The Department of Health and Ageing aims to ensure that Aboriginal and Torres Strait Islander people have access to health care services essential to improving health and life expectancy.

Access to comprehensive primary health care is fundamental to the prevention, early detection and management of chronic diseases and their risk factors - the single largest contributor to the life expectancy gap between Indigenous Australians and non-Indigenous Australians. This is why the Australian Government is making a significant investment in primary health care for Aboriginal and Torres Strait Islander people.

Australia's overall expenditure on health care for Aboriginal and Torres Strait Islander people continues to grow, as is evident from the findings of the Australian Institute of Health and Welfare's fifth Report on Expenditure on health for Aboriginal and Torres Strait Islander people<sup>17</sup>, where per person spending on health and high care residential aged care for Aboriginal and Torres Strait Islander people (by the Federal Government, state and territory governments and non-government) rose by 46% between 2001-02 and 2006-07 (from \$3,900.80 per person to \$5,696.10 per person).

However, Aboriginal and Torres Strait Islander people are still relatively low users of medical, pharmaceutical, dental and other mainstream health services, which are mostly privately provided (particularly when taking into consideration the fact that Aboriginal and Torres Strait Islander people experience a burden of disease two and a half times that of non-Indigenous Australians). In 2004-05, 42% of Aboriginal and Torres Strait Islander people reported accessing health care in the last 2 weeks or hospital in the last 12 months. After adjusting for age differences between the two populations, Indigenous Australians accessed health care at similar rates to non-Indigenous Australians. Indigenous Australians were more than twice as likely to visit casualty/outpatients and half as likely to see a dentist<sup>18</sup>. In 2006-07 the total Pharmaceutical Benefits Scheme benefits paid per person for Aboriginal and Torres Strait Islander people was estimated at 60% of the amount spent on non-Indigenous Australians, while Medicare benefits paid per person for Indigenous Australians was 58% of the amount spent on other Australians<sup>19</sup>.

The health care services provided to Aboriginal and Torres Strait Islander people are funded through both Australia's mainstream health system, Medicare, and through other Indigenous specific primary health care programs.

<sup>&</sup>lt;sup>17</sup> Australian Institute of Health and Welfare, 2009. Expenditure on health for Aboriginal and Torres Strait Islander people 2006–07. Health and welfare expenditure series no. 39. Cat. no. HWE 48. Canberra: AIHW. Report available at http://www.aihw.gov.au/expenditure/indigenous.cfm

<sup>&</sup>lt;sup>18</sup> Australian Health Ministers' Advisory Council (AHMAC) 2008, The Aboriginal and Torres Strait Islander Health Performance

Framework Report 2008, AHMAC, Canberra. Australian Institute of Health and Welfare, 2009.

In 2003-04 the Aboriginal and Torres Strait Islander Primary Health Care Review considered the adequacy and effectiveness of Aboriginal and Torres Strait Islander health program funding at a national level and supported the appropriation of more program funds to support the growth of the Indigenous health sector. This review is available online on the Department of Health and Ageing website<sup>20</sup>.

Approximately 90% of funding within the Aboriginal and Torres Strait Islander health program is distributed to organisations providing primary health care (the majority of which are known as Aboriginal Community Controlled Health Services (ACCHS), further detail regarding ACCHSs is available in Attachment A), substance use and social and emotional well-being services to Aboriginal and Torres Strait Islander people<sup>21</sup>. The remaining 10% includes funding for capital works projects, scholarships and training and workforce. The total expenditure during the 2008-09 financial year amounted to \$520 million. The majority of this funding is ongoing recurrent funds, meaning that these funds are allocated to the organisations together with an annual indexation increase, without the need for a submission.

Over recent years, the Australian Government has allocated new funding to tackle specific health issues for Aboriginal and Torres Strait Islander people. This has included funds in the key areas of closing the gap in Indigenous disadvantage, eye and ear health, child and maternal health, social and emotional wellbeing services, substance use, primary health care service delivery, and combating petrol sniffing. A list of recent measures is available at Attachment B.

On 29 November 2008, the Commonwealth also announced \$805.5 million, over four years, for an Indigenous Chronic Disease Package as its contribution to the Council of Australian Government's National Partnership Agreement on Closing the Gap in Indigenous Health Outcomes. This major investment will work towards closing the gap in life expectancy between Indigenous and non-Indigenous Australians within a generation, including by addressing barriers to access under mainstream financing arrangements.

#### **Medical Benefits**

The Australian health care system is characterised by universal free access to public hospitals and subsidised access to medicines and health services. The system is predominantly publicly funded but there are contributions from private health insurance and direct patient contributions through out-of-pocket (OOP) costs.

The major part of the Australian health care funding system is called "Medicare". The Medicare program provides access to free treatment to public patients in public hospitals and subsidises around 6,700 different types of health services including consultations with general practitioners (GPs), psychiatrists, obstetricians, pathologists and other specialist medical practitioners, as well as diagnostic, therapeutic and allied health services. The government assigns each service a MBS item number and fee. The Medicare item definitions and associated MBS fees are updated regularly to reflect approved new medical services.

On admission to public hospitals, patients may choose to be public (Medicare) patients, or private patients. If they choose to be public patients, they receive free medical and allied health / paramedical care from doctors nominated by the hospitals, as well as free accommodation, meals and other health services while in hospital.

## Aboriginal and Torres Strait Islander Medicare Items

The Medicare system provides benefits for a full range of medical services for all Australians. In addition, some specific medical service items support the health needs of Aboriginal and Torres Islander peoples, such as agespecific health assessments and follow-up services including allied health.

<sup>&</sup>lt;sup>20</sup> Dwyer, Silburn, Wilson and La Trobe University, 2004, Aboriginal and Torres Strait Islander Primary Health Care Review, Volume 1: National Strategies for Improving Indigenous Health and Health Care, Commonwealth of Australia, Canberra, Australia. Report available at <u>http://www.health.gov.av/internet/main/publishing.nsf/Content/health-oatsih-pubs-reviewphc.htm</u><sup>21</sup> This also includes the funding distributed to stakeholders (i.e. the National Aboriginal and Community Controlled Health Organisation

<sup>(</sup>NACCHO)).

Under the Medicare system, registered Aboriginal health workers may assist a medical practitioner with selected medical service items, for example, antenatal care in rural and remote locations, immunisation and wound management.

The Australian Government also funds a program to promote the increased uptake by Aboriginal and Torres Strait Islander peoples of targeted Medicare items to assist their health needs. The aim of the program is to maintain health through preventive measures, provide appropriate early intervention to prevent or delay the onset of chronic disease, and, provide management of chronic diseases. The program is delivered through State-based general practice organisations and Aboriginal community-controlled organisations and associations.

# **Pathology Service Provisions**

Many Aboriginal and Torres Strait Islander health services are in rural and remote locations across Australia where there is poor or no access to rapid pathology testing for the management of diabetes in indigenous communities. The Australian Government Quality Assurance in Aboriginal and Torres Strait Islander Medical Services (QAAMS) program overcomes this by providing "point of care" pathology testing with a six minute test time to allow appropriate treatment and management of diabetes while the patient is still present.

The two pathology tests that are currently used in the QAAMS program are:

- glycosylated haemoglobin (HbA1c) quantitation in blood, which shows how well glucose levels are being managed; and
- microalbumin or the albumin:creatinine ratio (ACR) quantitation in urine, which detects early stage renal disease, an adverse outcome of poorly managed diabetes.

A Medicare benefit can be claimed for the two pathology tests performed at Aboriginal and Torres Strait Islander health service sites as a "point of care" test only in the QAAMS program though a Medical Practitioner with an Indigenous speciality code.

The QAAMS program also provides training, support and on-going education for health care workers at approximately 140 Indigenous health care sites around Australia where diabetes-related pathology testing is being undertaken using portable testing devices. This mode of service provision enables this testing to be provided opportunistically as part of active management of diabetes to prevent further poor health outcomes and in rural and remote locations where other pathology testing services may not be available. The program also supports the provision of scientific external quality assurance of the testing that occurs at those sites to ensure that the testing is reliable enough on which to base health care management decisions.

## Pharmaceutical Benefits Scheme

The Pharmaceuticals Benefits Scheme (PBS) is an Australian Government scheme designed to ensure all Australian residents (and eligible overseas visitors) have reliable, timely and affordable access to cost-effective and high quality medicines. Under current arrangements patients pay a co-payment of up to \$33.30 for most PBS medicines or \$5.40 for health care cardholders and pensioners (These amounts are normally adjusted in line with inflation on 1 January each year). The Australian Government pays the remaining cost. PBS safety net arrangements are also in place for individuals and families with large overall co-payment expenses for PBS listed medicines.

## PBS Listings to Reduce Cost for Medicines

The PBS includes listings to support the treatment of conditions common in Aboriginal and Torres Strait Islander health settings. These listings are specifically for patients who identify as Aboriginal and/or Torres Strait Islander persons. A number of these medicines are listed at Attachment C.

PBS listings specific to Indigenous Australians are one of the results of a 2004–05 Federal Budget measure, Primary Health Care Access Program for Aboriginal and Torres Strait Islander People — additional funding.

This measure has provided support for better access to medical care to treat illness as well as programs to improve health, including improved access to appropriate medicines.

As part of the Budget initiative, in 2005, the Department of Health and Ageing convened an expert advisory panel — the Expert Advisory Panel on Aboriginal and Torres Strait Islander Medicines — to assist with improving the capacity of the PBS to meet the particular health needs of Indigenous Australians.

The Panel has identified a number of medicines, including nicotine replacement therapy patches, which have the potential to make a significant positive impact on the health of Indigenous Australians.

#### PBS Co-payment Measures for Aboriginal and Torres Strait Islander Peoples

Chronic illnesses are responsible for 70% of the difference in the burden of disease observed between Indigenous and non-Indigenous Australians. Access to medicines on the PBS is an important aspect of preventing and treating chronic illnesses. Despite having a burden of disease two and a half times greater than non-Indigenous Australians, total Pharmaceutical Benefits Scheme benefits paid per person for Indigenous Australians was estimated at 60% of the amount spent on non-Indigenous Australians. For Indigenous Australians, the cost of medicines has been identified as a key factor in the disproportionate use of the PBS compared with their health care needs.

As part of the Australian Government's Closing the Gap, Indigenous Chronic Disease Package, eligible Aboriginal and Torres Strait Islander patients are able to receive medicines at lower or no cost from 1 July 2010. The new arrangements are set within the primary care context and are targeted towards selected groups within the Indigenous population – those with an existing chronic disease or who are at risk of developing chronic disease, and requiring financial assistance to buy the PBS medicines they need. Once registered for the program, a doctor will issue a patient with a specially annotated prescription, and upon presenting it to a community pharmacy for dispensing, the patient will be supplied the medicine with a lower or nil co-payment. The program covers all medicines on the PBS, whether the medicines are being used to treat chronic or acute medical conditions. Once registered for the program, patients have access to these benefits unless they make a decision to withdraw from the program.

#### Remote Area Aboriginal Health Services (RAAHS) Program

To address identified barriers in accessing the Australian Government's PBS, special arrangements were introduced in 1999 for the supply of PBS medicines to clients of eligible remote area Aboriginal Health Services (AHSs).

Under the provisions of section 100 of the *National Health Act 1953*, clients of approved RAAHSs are able to receive PBS medicines directly from the AHS at the time of medical consultation, without the need for a normal prescription, and without charge. The arrangements are often referred to as the section 100 RAAHS Program.

Clients of around 170 RAAHSs, including community controlled AHSs and remote services operated by the States and Territories of Australia, benefit from these arrangements. An evaluation of the program was undertaken in July 2004<sup>22</sup>. The evaluation found that the program met its aim of improving access to PBS medicines to clients of remote AHSs by removing the need for scripts and co-payments in approved AHSs. Action taken in response to the recommendations of the evaluation was published in a status report released on the Department's website in October 2007<sup>23</sup>.

<sup>&</sup>lt;sup>22</sup> Kelaher et al, 2004, *Evaluation of PBS Medicine Supply Arrangements for Remote Area Aboriginal Health Services Under S100 of the National Health Act*, Cooperative Research Centre for Aboriginal and Tropical Health, Menzies School of Health Research and the Program Evaluation Unit (PEU), University of Melbourne, Australia.

<sup>&</sup>lt;sup>23</sup> Australian Government Department of Health and Ageing, 2007, Status report on action in response to Evaluation of PBS Medicine Supply Arrangements for Remote Area Aboriginal Health Services Under S100 of the National Health Act.

Under the arrangements, AHSs order required PBS pharmaceuticals from pharmacies, which transmit claims to Medicare Australia for reimbursement. Medicare Australia is an Australian Government agency that administers a number of Australian Government health programs including the PBS.

There is no need for participating RAAHSs to make payments to pharmacies for PBS medicines obtained under the program.

# **Dental Health**

## Indigenous Dental Services in Rural and Regional Areas Program

The Australian Commonwealth Government's *Closing the Gap - Indigenous dental services in rural and regional areas* program will provide \$11m over four years (2009-10 to 2012-13) to implement and evaluate pilot projects for mobile dental service delivery for rural and regional Aboriginal and Torres Strait Islander communities.

A recent study <u>http://www.mja.com.au/public/issues/192 10 170510/jam10356 fm.html</u> showed Indigenous 16–20 year olds in the Northern Territory had eight times as much tooth decay and 11 times as much gum disease as non-Indigenous Australians of the same age. The projects under this program will assist in determining what works to address the major oral health problems faced by Indigenous Australians, especially in rural and regional areas.

In June 2010, the Commonwealth provided \$860,000 for the first three mobile dental infrastructure pilot projects under the program 'Closing the Gap - Indigenous dental services in rural and regional areas'.

## **Further Information**

More information about the PBS, PBS co-payments, safety net arrangements, Aboriginal Health Services and the PBS can be accessed from the Departmental web site via: <u>http://www.health.gov.au/internet/main/publishing.nsf/Content/health-pbs-indigenous</u>

# A3: Canada

# **Indigenous Health Information for Canada**

## Inequities in Access:

- 40.8% of First Nations on reserve (FN-OR) generally rate their access to health services as being the same as that of Canadians. An additional 23.6% rate their access as being better, while 35.6% rate their access as being less than that of Canadians.
- Barriers associated with geography (availability of services in area) and economics (transportation) affects FN-OR disproportionately:
  - 13.1% of FN males and 16.2% of FN females reported lack of local services as a barrier to access care, compared with 9.9% of general Canadian males and 12.0% of Canadian females.
  - 11.6% of FN males and 15.9% of FN females reported transportation problems as a barrier to access, compared with 1.2% of general Canadian males and 1.9% of Canadian females.
- 15.5% of FN males and 18.4% of FN females considered the services they received as being inadequate, compared with 8.7% of general Canadian males and 10.8% of Canadian females.
- 56% of Inuit adults had contact with a medical doctor in the past 12 months, compared with 79% of the total Canadian population.
- 81% of Métis adults reported they had a family doctor in 2006, compared with 86% of the total Canadian population.

# Health Disparities:

- Registered Indians live on average 6.7 years less than the general population; Inuit live approximately 12.7 years less.
- The proportion of adults who rated their health as fair or poor was 1.7 times higher among First Nations on reserve (2002-2003) and 1.4 times higher among Inuit (2006), as compared with the general Canadian population.
- First Nations on reserve have a diabetes rate 3.8 times higher than the general Canadian population.
- Overall, the proportion of FN-OR living with a disability is 1.6 times greater than the general Canadian population. At all ages, a higher proportion of FN-OR adults are living with a disability compared to the general Canadian population.
- Findings from an 11-year follow-up mortality study (1991-2001) suggest that age-standardized mortality rates are 1.6 times higher for Registered Indians and 1.4 times higher for Métis, as compared to non-Aboriginals.
- In regions for which we have good quality data, First Nations infant mortality rates appear to have decreased over time, but remain approximately twice as high compared to infant mortality rates for the general Canadian population. Infant mortality rates within Inuit-inhabited regions are approximately 4 times higher compared to the general Canadian population.
- Approximately 9% of all new HIV infections in 2005 occurred in Aboriginal persons. The overall infection rate among Aboriginal persons is estimated to be 2.8 times higher than among non-Aboriginal persons.
- In 2007, the rate of tuberculosis was 5.9 times higher among Registered Indians and 17.9 times higher among Inuit than among the general Canadian population.
- The rate of First Nation youth suicide (10 to 19 years) was 4.3 times higher than for Canada in the year 2000.
- The suicide rate for Inuit regions (1999-2003) is 11.6 times higher than for the rest of Canada. The majority of deaths in Inuit regions (1989-2003) were among males.

# Data Issues / Caveats:

• The Registered Indian on-reserve data from the 2006 Census do not include 22 Indian reserves and Indian settlements that were incompletely enumerated. In 2006, a total of 22 Indian reserves and Indian settlements were incompletely enumerated by the census. The populations of these 22 communities are not included in the census counts.

- Information collected from the 2006 APS and 2002-2003 RHS are derived from self-reported data.
- The 2002-2003 RHS survey sample was designed to represent the First Nations population living in First Nations communities in all provinces and territories except Nunavut. Overall, 238 communities were included and 5.9% of the target population was surveyed.
- Aboriginal people living in Indian settlements and reserves in the 10 provinces were not included in the 2006 APS data collection. In the three territories, all First Nations people were included in the APS target population. The overall response rate for the 2006 APS was 80.1%.
- Due to issues surrounding incomplete ethnicity information and variations in reporting by provinces (i.e., Ontario and Quebec are excluded from national reporting), the Aboriginal HIV surveillance data, as presented, may understate the magnitude of the HIV epidemic among Aboriginal persons in Canada.
- The studies of Wilkins et al. (2008), Luo et al. (2010) and Penney et al. (2008) used geographic coding methodology to obtain health information among areas of Canada with a high proportion of Inuit (Inuit-inhabited areas). This method is used due to a lack of national level Inuit-specific data. This methodology included Inuit-inhabited communities where at least 33% of the residents self-identified as Inuit, based on the self-identification question of the 2001 Census of Canada. Collectively, 80% of the residents in the communities covered were Inuit, and 20% were non-Inuit (though there was some regional variation).
- Further details regarding the research methodology and data limitations for the studies cited can be found in the respective study publications.

# A4: USA

# **Indigenous Health Information for the USA**

## Access to Care:

- 81.5 percent of American Indians and Alaska Native (AI/AN) adults 18-64 years of age have health insurance coverage, as compared to 83.5 percent for White adults of the same age. For AI/AN adults this coverage includes a combination of: the Indian Health Service, private health insurance, Medicaid, and other sources of health care coverage. (Source: US National Health Interview Survey, 1999-2003 data).
- At the same time, AI/AN adults experience serious problems with access to care:
  - 12.7 percent delayed medical care due to cost, as compared to 8.3 percent for White adults (NHIS, 1999-2003 data);
  - 10.7 percent did not receive medical care due to cost, compared to 5.7 percent for White adults (NHIS, 1999-2003 data);
  - 40 percent of AI/AN adults less than 65 years of age lost health insurance coverage one or more times in the past year, as compared to 25 percent of White adults (Source: Medical Expenditure Panel Survey, 2005 data; AHRQ, National Healthcare Disparities Report);
  - 18.4 percent of AI/AN adults had an emergency room visit in the past year, versus 13.5 percent for White adults (MEPS, 2005 data);
  - 32.6 percent of AI/AN adults had a dental visit in the past year, as compared to 45.7 percent of White adults (MEPS, 2005 data).
- Data Issues:
  - Both the National Health Interview Survey and the Medical Expenditure Panel Survey are nationally representative surveys of individuals/households. Information on the race of the respondent is self-reported in these surveys and is considered much more reliable than information on race from administrative records such as hospital admissions or discharge abstracts.

#### **Quality of Care:**

- For women who completed a pregnancy in the past 12 months, 69.6 percent of AI/AN women began prenatal care in the first trimester, versus 85.5 percent of White women (Source: National vital statistics, 2005 data);
- 38.1 percent of AI/AN adults aged 50 years or more had received colorectal screening as compared to 56.8 percent of White adults (NHIS, 2005) (screening = ever received a colonoscopy, sigmoidoscopy, or proctoscopy; or fecal occult blood test in last two years).
- Data Issues:
  - Many of the healthcare quality measures were considered statistically unreliable for the AI/AN population due to an inadequate number of respondents (from surveys) or because racial identification was not reliable (hospital and other administrative records).

#### **Healthcare Expenditure:**

- All members of federally recognized tribes are eligible for healthcare service from the Indian Health Service (IHS); the IHS provides care directly or contracts care for an estimated 1.6 million American Indians and Alaska Natives (U.S. Comission on Civil Rights, 2003).
- IHS spending for comprehensive health services in its hospitals and health clinics is roughly 50 percent below per person expenditures by public and private health insurance plans (U.S. Commission on Civil Rights; 2003).

- American Indians and Alaska Natives also obtain health insurance coverage from other sources, but one-third of the nonelderly AI/AN population is either uninsured or obtains services solely from the Indian Health Service (Kaiser Family Foundation, 2009).
- The healthcare services received from the Indian Health Service consist largely of primary care but include some ancillary and specialty services. IHS facilities can contract with outside facilities for services the IHS facilities are unable to provide, but funding for outside contracting is limited (Kaiser Family Foundation, 2009).
- The Indian Health Service is classified for budgetary purposes as a discretionary program, which means there is no federal guarantee that there will be adequate funding for medical services. In addition, the IHS budget has declined as a proportion of the discretionary budget of the Department of Health and Human Services in recent years (U.S. Commission on Civil Rights; 2003.

# Health Disparities:

- The AI/AN infant mortality rate is 40% higher than the White rate (8.06 vs. 5.73) (NVSS, 2006);
- The AI/AN death rate exceeds the White rate by 93% for diabetes (41.5 vs. 21.5), by 160% for chronic liver disease and cirrhosis (22.6 vs. 8.7), 33% for unintentional injuries (54.7 vs. 41), and 60% for motor vehicle accidents (24.8 vs. 15.5) (Health United States, 2008; citing 2005 data).
- Fair or poor self-reported health status is nearly twice as high for AI/AN adults as for Whites (20.7 vs. 10.9 percent) (National Health Interview Survey, 1999-2003 data).
- 34 percent of AI/AN adults are obese as compared to 21.3 percent of White adults (NHIS, 1999-2003).
- 14.3 percent of AI/AN adults report a physician has told them they are diabetic, compared to 6.4 percent of White adults (NHIS, 1999-2003).
- 41.4 percent of AI/AN adults report functional limitation, compared to 31 percent of White adults (NHIS, 1999-2003).
- Data Issues:
  - The AI/AN death rate is significantly underreported because of racial misclassification on the death certificate. The level of underreporting has been estimated at 30% (NCHS report, 2008). Thus the death rate disparities mentioned above are substantially underestimated. The sole exception to this is the AI/AN infant mortality rate which is based on the linked birth and infant death file, which obtains accurate racial classification from the birth certificate.

## Sources:

## Access to care:

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- 2008 National Healthcare Quality & Disparities Reports, Agency for Health Care Quality and Research. (this is the source used for all references to the Medical Expenditure Panel Survey – MEPS). http://www.ahrq.gov/qual/qrdr08.htm#toc

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Healthcare expenditures:

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  - Arias E, Schauman WS, Eschbach K, Sorlie PD, Backlund E. The validity of race and Hispanic origin reporting on death certificates in the United States. *Vital and Health Statistics*, Series 2, No. 148. National Center for Health Statistics, Hyattsville, MD, October 2008. <u>http://www.cdc.gov/nchs/data/series/sr\_02/sr02\_148.pdf</u>