Chapter 6. BAYSIDE HEALTH SERVICE DISTRICT

PUBLIC HEALTH SERVICES AND
HEALTH INFORMATION CENTRE
Foreword

The health of the people of Queensland is very good overall and continues to improve. However, recent declines in the amount of physical activity undertaken, poor nutrition, an increase in overweight and obesity, as well as high levels of smoking and alcohol misuse, tell us that this is not a time for complacency. In addition, the increasing inequalities in health and the poor health of Indigenous peoples require specific attention.

In order for us to address these issues, Queensland Health and others whose work impacts on health and wellbeing, need to focus on the areas that will have the greatest gains for all Queenslanders. Information is critical to enable us to make decisions about where to focus and invest.

*Health Determinants Queensland 2004* is a key resource in this regard. It provides a summary of the most important factors influencing the health status of Queenslanders today and the areas of potential gain, and highlights the key responses needed to address them. This report brings together indicators of the major behavioural, social, economic and environmental determinants of health and their recent trends in Queensland. In doing so, it provides valuable guidance to government, non-government agencies and the community for improving health and reducing the burden of disease tomorrow and into the future.

It is absolutely clear that the influences on the health of Queenslanders go well beyond the scope of health agencies. All parts of society are and need to be engaged in the effort. Promoting and sustaining the health of the public is one of the most important functions of government and Queensland Health's new strategic intention highlights this.

Our mission is to promote a healthier Queensland. Our vision is to be leaders in health and partners for life. We will be successful in promoting a healthier Queensland through acting on following five strategic intents:

- Healthier staff – optimise staffing levels, provide staff with the right knowledge and skills, and provide an environment that values their experience and which supports positive ideas to drive innovation, creativity and health enhancements
- Healthier partnerships – work with others to harmonise programs and activities that impact on health
- Healthier people and communities – promote healthier lifestyles and environments for individuals, families and communities and improve community-based chronic disease management
- Healthier hospitals – provide high quality and equitable acute emergency care, integrated with enhanced community-based services
- Healthier resources – use finite resources to maximum advantage.

*Health Determinants Queensland* provides an information basis from which we can make informed decisions about how to best action each of these intents – what initiatives need to be implemented in which areas to achieve the greatest possible gains in health.

I encourage everyone with an interest in health – which is all of us – to familiarise yourself with the information in this report and to use this information in planning priority setting, and decisions about resource allocation.

Dr Steve Buckland
Director-General
Queensland Health
Acknowledgments

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6.1 Health Determinants Queensland 2004

Health Determinants Queensland 2004 (HDQ) reports indicators of the major behavioural, social, economic and environmental determinants of health in the state. Where possible, it reports key trends in these indicators. Outcome indicators of preventable health issues are also reported. The report describes the relationship between the determinants of health and their outcomes. Queensland population groups with excess mortality and morbidity associated with conditions and determinants are also identified.

A determinant of health is a factor or characteristic that brings about a change in health, either for the better or for the worse. Health determinants can be broadly divided into ‘upstream’ determinants (education, employment, income, living and working conditions), ‘midstream’ (community capacity, health behaviours and psychosocial factors) and ‘downstream’ (physiological and biological factors). The social, cultural, economic and environmental factors are collectively called ‘social determinants of health and wellbeing’.

The five population based chapters of HDQ reflect the life course approach and the age specific nature of many health determinants and outcomes. The Whole of population chapter reports the determinants of health which affect the entire population, key health outcomes and interventions to address these determinants. The Children, Young people, Older people and Indigenous peoples chapters reflect the health determinants of specific relevance to those populations. Population-specific interventions to address these determinants are described.

The Health service district profiles chapter comprises a suite of 34 profiles, one for each of the population based Health Service Districts (HSDs) in Queensland. The Bayside HSD profile is one of that suite.

6.2 What is the aim of this profile?

This profile provides Bayside HSD with a summary of the key health issues and their causes, in the total population and in subpopulations within the district.

Information on the prevalence of risk and protective factors for health is required to determine the level of need in the population, and to measure the effectiveness of services. With rapidly changing populations in many parts of Queensland, and specifically an ageing population, strategic prevention initiatives are critically needed.

Health Determinants Queensland 2004 supports decision makers at the local level in identifying priority areas for prevention and evidence based interventions for investment. It provides information for planning to strategically address the current, and short and long term future burden of disease in the Bayside HSD.

6.3 An introduction to small area analysis

The health status of the people of Bayside HSD can be considered in two ways.

- What are the major determinants of health, death and disease?
- Are the health issues of the people of this district different to other populations in Queensland? That is, what is the relative health status of this population?

The major determinants of health, death and disease, and the health status of the total Queensland population are reported in other chapters of Health Determinants Queensland 2004 and in earlier publications. This information provides a good base for understanding the general health issues affecting this district’s population.

Regarding the relative health status of this population, this is of critical concern, as the impact of changing sociodemographic patterns and the effect of lifestyle behaviours on demand for health services is experienced in the district currently and in the future.

In order to determine the relative health status of the district population, knowledge of the health status of this and other districts in Queensland is required. However, at HSD level and smaller, mortality and morbidity information is not always available. In addition, where this information is available, it has some inherent problems which can lead to difficulties with interpretation and possibly the development of misinformation. These difficulties with small area analysis mostly stem from the relatively small number of cases reported for many conditions in smaller populations, with variation in numbers of cases, deaths or behaviours due to unexpected or non-representative events.
An estimation method has been adopted to address this problem and is used in this profile. This method relies on the fact that the health status of a population is largely predicted by sociodemographic characteristics of that population.\textsuperscript{6,8} The key sociodemographic predictors of health status of a population are the age structure, sex distribution, proportion of Indigenous people and socioeconomic profile, and to a lesser extent urban, rural or remote location. Cultural diversity also needs to be considered.

The relative health status of people living in the Bayside HSD can be estimated from knowledge of:

- key sociodemographic characteristics of the population in the district and Queensland
- the distribution of health outcomes and determinants in these sociodemographic groups in Queensland, as described in \textit{Health Determinants Queensland 2004}.

This methodology is detailed in section 1.6 of \textit{Whole of population} chapter and in other Queensland Health documents.\textsuperscript{7} While this estimation method provides broad indications of health status in the population, complementary local knowledge will enhance the interpretation of this information and the understanding of its significance to the local population.

Population groups are not homogenous in regards to health issues. Thus, the key issues for population groups are interdependent. Prevalence of health outcomes and determinants are the result of complex interactions between the sociodemographic variables of the population. Key interactions are between: Indigenous status, socioeconomic disadvantage, and to a lesser extent rural or remote location; and between all populations and socioeconomic disadvantage. That is, older people who live in socioeconomically disadvantaged areas have greater health needs than those living in socioeconomically advantaged areas. A similar observation holds for Indigenous people, where the impact of Indigenous status, socioeconomic disadvantage, and rural and remote locations are interwoven. In addition, other interactions occur within district population groups. For example, Indigenous children and children from lower socioeconomic backgrounds are at greater risk of developing untoward health outcomes such as diabetes, than other children.

\section*{6.4 Who lives in Bayside HSD and how will that change?}

The key sociodemographic predictors of health are described for Bayside HSD, using data from the 2001 census of population and housing, and population projections where available (Table BY 6.2).

In summary, compared to Queensland, Bayside HSD has:

- in general a similar age and sex profile to Queensland
- projected increase in proportion of older people
- population growth in past and projected for the future

Within the boundaries of the district, the sociodemographic distribution of the population varies considerably. Specifically, some areas of the HSD have a higher proportion of young children aged 0-4 years (Figure BY 6.2), children aged 5-14 years (Figure BY 6.3), young people aged 15-24 years (Figure BY 6.4), older people aged 65 years and older (Figure BY 6.5). The location of Indigenous people (Figure BY 6.6) and areas of greater socioeconomic disadvantage (Figure BY 6.7) also varies across the district. Many areas have greater proportions of a number of these population groups, including older people and Indigenous peoples living in areas of socioeconomic disadvantage.

Depending upon the sociodemographic mix of the local population as shown in these figures, the health status and specifically the likely prevalence of determinants of health, will vary within the district. This same estimation model can be applied to identify areas within the district at greater health risk.

In this profile, unless otherwise noted, the following age range definitions apply; children are 0-14 years, young people aged 15-24 years, adults are 25-64 years and older people are 65 years and older.

\section*{Age and sex distribution}

In 2002, the population of Bayside HSD was 182,764, which was 4.9\% of the Queensland population (Table BY 6.2). The age profile of the district is similar to that of Queensland (Figure BY 6.1).
Population growth
Bayside HSD is an area with a recent history of population growth. Strong population growth, at a rate greater than the Queensland rate is projected for the period 1996 to 2016. This is the sixth largest HSD in Queensland by population and projected to be the sixth fastest growing HSD. In the 20-year period, the district population is projected to increase by about 78,000 persons. Population projections indicate growth in this district will affect all age groups, however consistent with an ageing population in many areas in Queensland, greatest proportional increases will occur in older age groups (Table BY 6.2).

These projections are based on data derived from the 1996 census. Projected population growth using the 2001 census, for Queensland and at Local Government Area level have been reported, but are currently not available for health service districts.

Indigenous population
In 2001, there were 2,616 Indigenous people in the district, representing 1.5% of the total district population and 2.3% of Queensland’s Indigenous population. In Queensland, 3.1% of the population identified as Indigenous in 2001.

Socioeconomic disadvantage
Bayside HSD is not as socioeconomically disadvantaged when compared to Queensland. In 2001, 3.3% of the district population lived in areas of relative socioeconomic disadvantage (about 5,800 people) compared to 20% of Queenslanders. About 34,000 people (19.6% of population) lived in areas of relative advantage, compared with 20% of Queenslanders. Using the 2001 Index of Relative Socioeconomic Advantage/Disadvantage, a profile of socioeconomic disadvantage includes variables for unemployment, lower income and level of skilled occupations. A profile of advantage includes variables for education, skilled and professional occupations, and higher family and household income.

In 1996, following the pattern in all HSDs in Queensland, the Indigenous population in this HSD were more likely to live in areas of greater socioeconomic disadvantage than the non-Indigenous population.

6.5 What are the key health issues and their causes?
Considering the whole population in the Bayside HSD, the major causes of death and illness include: Coronary heart disease (CHD), stroke, chronic obstructive pulmonary disease (COPD), depression and lung cancer (Table BY 6.3).

Health determinants of significant impact in this population include: harmful alcohol consumption, smoking, overweight and obesity, poor nutrition, physical inactivity, and risk and protective factors for mental health.

A complete list of health outcomes and determinants of particular importance in each population group in Bayside HSD are in Table BY 6.3.

The social determinants of health vary for each population group, and are not detailed in this profile. These determinants are described in each population-based chapter of Health Determinants Queensland 2004. The social determinants of health will vary between areas of the district. For example, socioeconomic disadvantage in one area may be reflected in poor employment options while in other areas it may be reflected in low disposable incomes, or lack of health awareness and general education.

Bayside HSD has a past history of population growth which is projected to continue.

Projected growth in population of children
The major causes of death and illness for very young children aged 0-4 years include: low birth weight, birth trauma and asphyxia, congenital heart disease and sudden infant death syndrome (SIDS).

The major cause of death and illness for children aged 5-14 years is asthma, with additional key conditions of: attention-deficit hyperactivity disorder, depression and road traffic injury.

Health determinants of significant impact in this population include: poor nutrition (both maternal and childhood), overweight and obesity, physical inactivity, sun protection, vaccination and oral health. The social determinants of health of specific importance to children include family supports, housing, family income and employment, and quality education for children.
While the health of children is affected by current lifestyle behaviours, such behaviours will also have considerable impact later in life. There will be substantial long-term gains in health and wellbeing gains by addressing the social and economic environments of children and their families. This will involve consideration of a broad range of environmental, socioeconomic and community capacity factors.

**Slightly higher proportion of females and projected to increase**

The major causes of death and illness for females include: stroke, CHD, depression, breast cancer and anxiety disorders.

Health determinants of significant impact on females include: poor nutrition, physical inactivity, overweight and obesity, smoking, high blood pressure, poor blood cholesterol management, breast cancer screening and risk and protective factors for mental health.

**Projected growth in adult population**

The major causes of death and illness for adults will include: CHD, COPD, suicide and self-inflicted injuries, diabetes and lung cancer.

Health determinants of significant impact in this population will include: smoking, harmful alcohol consumption, overweight and obesity and risk and protective factors for mental health. The social determinants of health of specific importance in this population are employment, income, housing and family relationships.

**Slightly higher proportion of older people and projected to increase**

The major causes of death and illness for older people will include: CHD, stroke, Alzheimer and other dementias, COPD, diabetes, and lung and colorectal cancer.

Health determinants of significant impact in this population will include: poor diabetes management, overweight and obesity, poor nutrition, physical inactivity, high blood pressure, poor blood cholesterol management, and smoking. In addition, falls are of particular concern in this population. Risk and protective factors for mental health are likely to have widespread effects on physical and mental health. Social determinants of health are of specific importance in this population, particularly housing, transport and social isolation.

These health issues will be exacerbated where older people are socioeconomically disadvantaged.

### 6.6 How many people are at risk?

An extension of estimating prevalence of health determinants of Bayside HSD is the estimation of the number of residents with specific key conditions (Table BY 6.1). The attributable burden of disease, the preventability of the conditions and the availability of data, were the basis for selecting the conditions to estimate case numbers.

<table>
<thead>
<tr>
<th>Condition and age group</th>
<th>Estimated case number males</th>
<th>Estimated case number females</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diabetic adults, aged 25 years and older</td>
<td>4,500</td>
<td>4,500</td>
</tr>
<tr>
<td>Overweight adults, aged 20 years and older</td>
<td>26,000</td>
<td>16,000</td>
</tr>
<tr>
<td>Obese adults, aged 20 years and older</td>
<td>11,000</td>
<td>13,000</td>
</tr>
<tr>
<td>Overweight children, aged 5-14 years</td>
<td>2,000</td>
<td>2,500</td>
</tr>
<tr>
<td>Obese children, aged 5-14 years</td>
<td>800</td>
<td>1,000</td>
</tr>
<tr>
<td>Asthmatic children, aged 0-9 years</td>
<td>2,000</td>
<td>1,000</td>
</tr>
</tbody>
</table>

### 6.7 How can the burden of disease be addressed?

Specific interventions to address the burden of disease in a population should target diseases, conditions and determinants of health which pose significant threat and are potentially preventable. There is now good evidence that a range of interventions are effective in preventing disease, illness and injury, and in promoting health and wellbeing through action on the determinants of health and ill health.
The key challenge is to ensure these initiatives are ongoing and widespread, and, are at a level sufficient to achieve broad based population-wide outcomes, as well as reduce health inequalities across population subgroups. Evidence based interventions to address these issues in each population are detailed in section 1.5 of the Whole of population chapter and in equivalent sections in other chapters of Health Determinants Queensland 2004.

Since population health issues are being addressed by multiple organisations and communities, the aim of these intervention sections is to identify key evidence based strategies that are currently being undertaken, are planned or are required. These strategies are based upon best practice. The interventions will be led by a variety of organisations in partnership with other sectors.

It is clear there are no simple, quick fixes to these complex issues. Action on all determinants requires multi-strategy approaches which:

- include both population-wide and at-risk group approaches
- involve sectors working together
- focus on both risk and protective factors
- address social, behavioural, economic and environmental factors
- specifically address equity and reduce disparities by focusing on the needs of the most disadvantaged communities and population groups
- take a lifecourse perspective.

The risk of disease is not confined to a particular group of the population with particularly high levels of risk factors. Rather, the risk of many diseases increases with increasing levels of risk factors, from levels within the normal range to very high levels of risk factors.\textsuperscript{14} In particular, there is a continuous association between:

- risk of coronary heart disease and healthy and excess weight (as assessed by body mass index),\textsuperscript{15} serum cholesterol,\textsuperscript{15} fruit and vegetable intake\textsuperscript{16} and diastolic blood pressure\textsuperscript{15}
- risk of diabetes and healthy and excess weight\textsuperscript{15}
- risk of haemorrhagic and ischaemic stroke and healthy and excess levels of diastolic blood pressure\textsuperscript{17}
- risk of hip fracture and bone mineral density\textsuperscript{15}
- risk of neural tube defects and maternal plasma folate.\textsuperscript{15}

Thus incremental change in the population prevalence of these health determinants will affect the health status of the population in Bayside HSD.

Considerable evidence indicates that current greater prevalence of determinants of ill-health will result in higher hospital separations and mortality in the population in the short and long term. There is a variable and often long lag time between the incidence of health determinants and hospital separation or deaths from associated diseases or conditions. As a result, the excess prevalence of some health determinants in Bayside HSD will be partially reflected in current mortality and morbidity statistics, and partially reflected in future statistics.

### 6.8 Priorities for prevention in Bayside HSD

Addressing the burden of disease in Bayside HSD requires interventions that positively modify the diseases, conditions and health determinants that pose significant preventable burden for the population. Priority health determinants may include those for which prevalence is higher in the HSD than that of Queensland. However, interventions should also be implemented at the small area level if those conditions or risk factors have similar or lower prevalence than that of Queensland, but have a large impact within the small area.

Social determinants of health, particularly sense of control, employment and housing must be addressed to achieve sustained health improvement in this HSD. In addition, environments that support healthy lifestyles must be developed and maintained. Intersectoral partnerships are needed to affect these upstream determinants of health.
As the population profile of Bayside HSD is similar to that of Queensland, the key health determinants and preventable morbidity factors for Queensland are applicable to this district. These are:

- overweight and obesity
- physical inactivity
- tobacco smoking
- poor diabetes management
- poor asthma management
- risk and protective factors for mental health
- hazardous and harmful alcohol consumption
- falls in older people.

The relative priority of key health determinants and preventable morbidity factors may change in the future as the population changes.

Population health interventions to address the burden of disease attributable to these health determinants are identified for the whole of the population and for sociodemographic groups, within the relevant chapters of the *Health Determinants Queensland 2004*. 
6.9 Appendix: Tables and figures

Table BY 6.2: Key summary demographic variables, Bayside HSD and Queensland, 2001

<table>
<thead>
<tr>
<th></th>
<th>Bayside</th>
<th>Queensland</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total population 2002</td>
<td>182,764</td>
<td>3,707,175</td>
</tr>
<tr>
<td>Percentage of Qld population</td>
<td>4.9</td>
<td>49.7</td>
</tr>
<tr>
<td>% males</td>
<td>49.2</td>
<td>49.7</td>
</tr>
<tr>
<td>Age distribution 2002</td>
<td></td>
<td></td>
</tr>
<tr>
<td>% aged 0-14 years</td>
<td>21.2</td>
<td>21.0</td>
</tr>
<tr>
<td>% aged 15-24 years</td>
<td>13.4</td>
<td>14.1</td>
</tr>
<tr>
<td>% aged 25-64 years</td>
<td>53.4</td>
<td>53.1</td>
</tr>
<tr>
<td>% aged 65+ years</td>
<td>12.0</td>
<td>11.8</td>
</tr>
<tr>
<td>Past growth (av annual change 1991-2001)</td>
<td>3.03</td>
<td>2.46</td>
</tr>
<tr>
<td>Projected growth 1996 to 2016</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Population aged 0-14 years</td>
<td>17.4</td>
<td>13.4</td>
</tr>
<tr>
<td>Population aged 15-24 years</td>
<td>22.3</td>
<td>23.9</td>
</tr>
<tr>
<td>Population aged 25-64 years</td>
<td>52.1</td>
<td>43.4</td>
</tr>
<tr>
<td>Population aged 65+ years</td>
<td>113.7</td>
<td>87.4</td>
</tr>
<tr>
<td>Total population</td>
<td>47.0</td>
<td>38.7</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Bayside</th>
<th>Queensland</th>
</tr>
</thead>
<tbody>
<tr>
<td>Index of Socioeconomic Advantage/Disadvantage 2001</td>
<td></td>
<td></td>
</tr>
<tr>
<td>% population in disadvantaged quintile</td>
<td>3.3</td>
<td>20</td>
</tr>
<tr>
<td>% population in advantaged quintile</td>
<td>19.6</td>
<td>20</td>
</tr>
<tr>
<td>% Aboriginal and Torres Strait Islander</td>
<td>1.5</td>
<td>3.1</td>
</tr>
<tr>
<td>% Australian born</td>
<td>76.9</td>
<td>77.7</td>
</tr>
<tr>
<td>% speaks a main language other than English at home (MLOTESH)</td>
<td>5.2</td>
<td>7.1</td>
</tr>
<tr>
<td>% MLOTESH and speaks English not well or not at all</td>
<td>2.5</td>
<td>4.9</td>
</tr>
</tbody>
</table>

Accessibility | Highly accessible

Source: ABS Census 2001. Base data for projections - Department of Local Government and Planning (District groupings added by Health Information Centre)

Figure BY 6.1: Estimated resident population for Bayside HSD by age and sex, and difference in age structure between HSD population and Queensland population, 2002
Figure BY 6.2: Proportion of young children (0-4 years) in Bayside HSD, compared to Queensland, by collection district, 2001

Figure BY 6.3: Proportion of children (5-14 years) in Bayside HSD, compared to Queensland, by collection district, 2001
Figure BY 6.4: Proportion of young people (15-24 years) in Bayside HSD, compared to Queensland, by collection district, 2001

Figure BY 6.5: Proportion of older people (65 years and older) in Bayside HSD, compared to Queensland, by collection district, 2001
Figure BY 6.6: Proportion of Indigenous people in Bayside HSD, compared to Queensland by collection district, 2001

Percentage of population who are Indigenous
- Much greater (5.5 to 35.8%)
- Greater (3.1 to 5.5%)
- QLD or less (0 to 3.1%)

Figure BY 6.7: Proportion of population in quintile of highest socioeconomic disadvantage in Bayside, by collection district, 2001

Index of relative socioeconomic advantage/disadvantage
- Disadvantage quintile
- Not included in analysis
### Table BY 6.3 Burden of disease and injury, and determinants of health in populations within Bayside HSD

<table>
<thead>
<tr>
<th>Burden of disease and injury</th>
<th>Bayside HSD total population</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sociodemographic groups in Bayside HSD</strong></td>
<td><strong>Currently in greater proportion and projected to increase</strong></td>
</tr>
<tr>
<td>Females</td>
<td>Older people (65 years &amp; older)</td>
</tr>
<tr>
<td>CHD</td>
<td>Stroke</td>
</tr>
<tr>
<td><strong>Health determinants</strong></td>
<td><strong>Smoking</strong></td>
</tr>
</tbody>
</table>

1. Due to the interplay between these factors and current data sources it is impossible to attribute differences to a single sociodemographic factor.
2. Order of burden of disease of conditions based on rank order of excess burden of bottom quintile of SEIFA 1996, compared with top quintile. Order and inclusion of conditions not based on burden of disease in socioeconomically disadvantaged populations.
3. Condition list based on multiple measures, but not burden of disease based on disability adjusted life years. No rank order applies.
4. Health determinants listed are those in excess prevalence in the specific sub-population and are not in rank order of impact on burden of disease.
6.10 References


