Understanding food insecurity in Australia

CFCA PAPER NO. 55

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Child Family Community Australia | information exchange
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Overview

This practice paper and its companion practice guide describe the prevalence, experience and impact of food insecurity in Australia, identifying the populations most at risk and exploring various responses. Large-scale, structural solutions are required to address the underlying causes of food insecurity; however, smaller-scale service and practice responses are likely to always be required. Child and family welfare service practitioners play an active role in identifying and providing practical assistance to clients experiencing food insecurity and linking them with further supports.

Key messages

- In Australia, food security is not measured at a population level regularly or consistently. However, estimates suggest that between 4% and 13% of the general population are food insecure; and 22% to 32% of the Indigenous population, depending on location.

- Some Australians may be more vulnerable to food insecurity, including: low-income earners, people who are socially or geographically isolated, Aboriginal and Torres Strait Islander peoples, culturally and linguistically diverse groups, single-parent households, older people and people experiencing homelessness.

- For children, food insecurity can have negative short- and long-term effects academically, socially, emotionally, physically and developmentally.

- The primary reason for food insecurity is material hardship and inadequate financial resources. People can also experience food insecurity due to: difficulty accessing affordable healthy food (e.g. financially or geographically), or limited food and nutrition literacy (e.g. knowing how to purchase and prepare ingredients to make a healthy meal).

- The strategies required to address food insecurity for all Australians are many and varied. These include policy interventions; local level collaborations; emergency food relief initiatives; school-based programs and education.

- Child, family and community welfare organisations have a role to play in identifying families that may be experiencing food insecurity and linking them with available supports.
Introduction

Food security and insecurity are terms used to describe whether an individual can access food in the quantity and of the quality they need to live an active and healthy life. Food insecurity is commonly considered a concern for developing nations in relation to poverty, agricultural capacity and sustainability. However, it is also an issue for developed nations like Australia where individuals, families and communities experience unequal levels of security in relation to food. While the contributing factors may differ across developed and developing nations, the range of experiences from secure to insecure are seen in both and result in differing manifestations of hunger, physical, social and emotional health implications and coping strategies.

Building on a CAFCA practice paper (Rosier, 2011), this practice paper and its companion practice guide offer insight into the experiences of food security and insecurity specifically in Australia. These resources were produced during a period spanning the 2019/20 bushfires and the COVID-19 pandemic. Natural disasters and pandemics can have significant social and economic impacts on affected individuals, families and communities, including their risk of food insecurity. At the time of writing, data are not available on the full impact of these events.

These resources are in two parts. In the practice paper Understanding food insecurity in Australia, it provides a review of the best available evidence on food security in Australia, and synthesises what is known about food insecurity by:

- defining food security and insecurity
- outlining some of the relevant contributing factors
- highlighting the populations within Australia more frequently affected by food insecurity
- describing different lived experiences.

In the practice guide Identifying and responding to food insecurity in Australia, it provides evidence-based and evidence-informed guidance on:

- screening for food insecurity
- supporting individuals and families
- reflecting on and adapting practice.

This practice paper and its companion practice guide are intended for practitioners working with families and households who may be affected by food insecurity to inform service responses.

Methodology

Evidence included in this practice paper was gathered from a range of sources. A comprehensive literature search was conducted on: definitions; affected populations and at-risk groups (including Indigenous peoples, culturally and linguistically diverse (CALD) communities, low income families, and children); prevalence; causes of food insecurity (including geography, access to food, lack of education and low income); impacts on families and children; intervention strategies (including by government, non-government and community groups), and program examples and evaluations.

The search utilised databases at the Australian Institute of Family Studies, including Academic Search Complete, Australian Family and Society Abstracts, Australian Public Affairs, Business Source Premier, Cochrane Database of Systematic Reviews, EconLit, ERIC, MEDLINE, Psychology and Behavioral Sciences Collection, PsycInfo, and SocIndex. The search also used snowballing techniques to identify online resources and grey literature from Australian and international governments or community organisations, such as the AGRICOLA database of the US National Agricultural Library.

Rigorous evaluations of government programs addressing food insecurity were difficult to source. Therefore, it was necessary to draw on a range of sources to identify best-available evidence, including: peer-reviewed journal articles, case studies, literature reviews, program descriptions and analyses, internal organisational evaluations and research institute publications. Despite the limitations of the existing literature, important insights can be gleaned from this information. Unless specified otherwise, most references refer to studies or programs conducted in Australia.
Food security versus food insecurity

While food security is broadly defined as ‘when all people, at all times, have physical, social and economic access to sufficient, safe and nutritious food that meets the dietary needs and food preferences for an active and healthy life’, food insecurity exists ‘whenever the availability of nutritionally adequate and safe foods, or the ability to acquire acceptable food in socially acceptable ways is limited or uncertain’ (Food and Agricultural Organization of the United Nations, Committee on World Food Security, 2012, p. 5).

As such, being food secure is more than having a sufficient quantity of food. It is having access to quality, ‘nutritionally adequate and safe’ food (Radimer, 2002, p. 2). And, as a fundamental human right, food should also be able to be sourced in ways that are socially acceptable and maintain human dignity. This means that food secure families and individuals can use regular marketplace sources and do not have to resort to emergency food relief and/or begging, stealing or scavenging (Olson & Holben, 2002).

The Food and Agriculture Organization of the United Nations (2006) and the World Health Organization (2011) describe food security as having four dimensions, as shown in Figure 1.

Figure 1: The four dimensions of food security
1. **Food availability**

The reliable supply of appropriate quality food from domestic production or importation, including:
- location of food outlets
- availability of food within stores
- price, quality and variety of available food (Nolan, Rikard-Bell, Mohsin, & Williams, 2006).

2. **Food access**

The economic and physical capacity to acquire foods that are safe, culturally appropriate and nutritious, including:
- the capacity to buy and transport food
- mobility to shop for food.

3. **Food use**

The physical, social and human resources to transform food into adequate and safe meals, including:
- the knowledge and skills to decide what food to purchase, how to prepare and consume it, and how to allocate it within a household
- home storage, preparation and cooking facilities
- time available to shop, prepare and cook food
- the use of non-food inputs that are important for wellbeing, such as clean water, hygiene and sanitation, and health care.

4. **Food stability and sustainability**

The consistent supply of food and the capability to account for risks such as natural disasters, price flux and conflict, including:
- economic stability
- household resilience
- insurance measures against natural disasters and crop failures.

As evident from these four dimensions, there are many factors that affect how individuals, families and communities experience food security and insecurity. Like many public health issues, these factors can be organised according to the degree of individual agency or control (see Figure 2 on page 6). With the individual at the centre of the figure, each consecutive layer moving outwards introduces a set of factors that are increasingly outside of an individual’s control. Interventions are necessary at each level in order to address food insecurity for all Australians. However, this paper focuses primarily on outlining best-practice strategies for addressing food security at the **individual**, **interpersonal** and **organisational** levels. It does not aim to detail **community** or **public policy** level solutions.
Experiences of food insecurity

This section explores Australians’ experiences of food insecurity, reviewing how food insecurity is measured in Australia and how these measurements differ in their results, leaving an unclear picture of the true prevalence. It also looks at common experiences and health implications of food insecurity according to severity, and strategies frequently employed by households to cope.

Food security measurement in Australia

At a population level, food security in Australia is not measured regularly. The most recent national measurement taken through the 2011/2013 Australian Health Survey estimated that 4% of all Australians are food insecure (ABS, 2015c). By comparison, 22% of Aboriginal and Torres Strait Islander peoples living in urban areas, and 31% living in remote areas were also found to be food insecure (ABS, 2015b). This survey used one question to identify food insecurity: ‘In the last 12 months was there any time you have run out of food and not been able to purchase more?’ (ABS, 2015a). This question did not give an indication of severity (e.g. mild/severe, chronic/transitory). For more insight into severity, respondents who answered ‘Yes’ were asked whether they, or members of their household, had gone without food as a result. Of those indicating they were food insecure, 2% of all Australians had gone without food (ABS, 2015c). In comparison, 7% of Aboriginal and Torres Strait Islander peoples living in urban areas and 21% living in remote areas had gone without food (ABS, 2015b). McKechnie, Turrell, Giskes, and Gallegos (2018) highlight that this combined method of measurement potentially underestimates the prevalence of food insecurity in Australia by approximately 5%.

Insights into food security in Australia are available through two longitudinal studies that follow participants over time. The national study Growing Up in Australia: The Longitudinal Study of Australian Children (LSAC) and the Building a New Life in Australia (BNLA) study ask respondents whether they have had to skip meals due to a shortage of money.
LSAC has followed the experiences of two cohorts of children (born 1999–2000 and 2003–2004) and their families since 2004 (Gray & Smart, 2009). LSAC data shows that on average 1–2% of parent respondents had gone without meals in the previous 12 months due to a shortage of money. This rate was higher among families experiencing socio-economic disadvantage, single-parent households and households where only one parent or no parents were employed.

BNLA follows the settlement experiences of humanitarian migrants who arrived in Australia or received their permanent protection visa between May and December 2013 (De Maio, Silbert, Jenkinson, & Smart, 2014). In their first interview (2013/14), 9% of principal respondents\(^1\) reported having gone without meals in the previous 12 months due to a shortage of money. While this decreased over time to 4% five years later, it was still significantly higher than that reported for other groups in the population. Similar socio-demographic factors were noted to increase the risk of a household being food insecure, including single-parent households, unemployment and reliance on government financial assistance.

Australians’ experiences of food insecurity are also the topic of academic research. A number of survey instruments are used in research studies on food security in Australia, producing a range of prevalence estimates. For the general population, these estimates range from 4% to 13%. The most recent estimation of the prevalence of ‘moderate’ and ‘severe’ food insecurity in Australia using the Food Insecurity Experience Scale\(^2\) was 13.4% in 2016–18 (Food and Agriculture Organization of the United Nations, 2016). For specific populations, prevalence has been estimated at 2% for older Australians and up to 90% for asylum seekers (McKay & Dunn, 2015; Quine & Morrell, 2006).

Chronic versus transitory food insecurity

Food insecurity can be experienced as chronic or transitory. Chronic food insecurity is experienced by households with incomes that are inadequate to meet their needs. This can be because the total income itself is low, as is the case for those receiving government financial assistance (Temple, Booth, & Pollard, 2019). It can also be because the high cost of other expenses (e.g. housing, energy, transport, health and education) leaves little income for food (Davidson, Saunders, Bradbury, & Wong, 2020). Limited data are available on the experiences of chronic food insecurity. However, as LSAC and BNLA follow families over a number of years, their results provide some insight into these experiences. Across both studies, 3% of respondents reported having gone without meals at two or more time points.

Transitory food insecurity is usually due to a short-term shock. These shocks could include situations such as natural disasters, pandemics (such as COVID-19), or civil unrest (such as strikes) that interrupt food supply for a population and affect local availability. The shocks could also include more immediate factors such as job loss, short-term increases to education or health costs, or unexpected expenses such as car repairs (King, Bellamy, Kemp, & Mollenhauer, 2013).

Both chronic and transitory food insecurity can be cyclical. With chronic food insecurity, the cycle may synchronise with income payments (e.g. food security increasing immediately after payment). With transitory food insecurity, cycles may be longer and linked to key stress points such as school commencement or celebrations (e.g. birthdays, Christmas).

The food security continuum

Food security and insecurity can be conceptualised using a continuum, with four categories ranging from high food security to severe food insecurity (United States Department of Agriculture, Economic Research Service, 2006). The lived experience, potential health implications and strategies used to adapt differ for each category (see Table 1 on pages 8–9).

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\(^1\) The BNLA sample was based on the principal applicant in the visa application. Some questions in the questionnaire were only asked of the principal applicant, referred to as the principal respondent.

\(^2\) Based on the United States Department of Agriculture’s commonly used Household Food Security Survey Module, this scale was developed by the Food and Agriculture Organization of the United Nations.
The health implications of experiencing food insecurity

Food insecurity negatively impacts the physical, mental and social health of adults and children. These consequences may be greater as the severity of food insecurity increases (Tarasuk, Mitchell, McLaren, & McIntyre, 2013). Food insecure households are not only more likely to consume inadequate nutrients and have poorer diets (Kirkpatrick & Tarasuk, 2008), they may also forego healthcare and/or medications due to financial limitations. As a result, food insecure adults are more vulnerable to developing chronic conditions including diabetes, heart disease, obesity, hypertension, arthritis, back problems and poor mental health (Vozoris & Tarasuk, 2003). They may also experience difficulties managing existing chronic health problems.

Coping strategies

Households employ various strategies to cope with food insecurity. These strategies may be income-based (such as increasing employment, selling assets and utilising debt management or financial counselling initiatives) or food-based (see Table 1). Law, Ward, and Coveney (2011) list those food-based strategies used by single parents, including bargain hunting, increasing cooking skills to buy cheaper unprepared food, efficient time use, and relationships with store owners to ensure value for money. Similarly, Ferguson and colleagues (2017) note that Aboriginal and Torres Strait Islander peoples living in remote areas often supplement purchased items with food from traditional sources to alleviate food insecurity. Some of these strategies can become adaptive; that is, households integrate them as business as usual and may, therefore, not necessarily identify as being food insecure (Kleve, Booth, Davidson, & Palermo, 2018), which can, in turn, affect help-seeking and the provision of support.

Table 1: Food security continuum, severity of household food insecurity

<table>
<thead>
<tr>
<th>Category</th>
<th>High food security</th>
<th>Mild food insecurity</th>
<th>Moderate food insecurity</th>
<th>Severe food insecurity</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Synonyms)</td>
<td>(Food secure)</td>
<td>(Marginal food secure)</td>
<td>(Low food security OR food insecure without hunger)</td>
<td>(Very low food security OR food insecure with hunger)</td>
</tr>
<tr>
<td>Lived experience</td>
<td>Households have no problems or anxiety about accessing nutritious, affordable, culturally appropriate food.</td>
<td>Households have problems at times, or are anxious, about accessing adequate food but the quality or quantity of what they are consuming is not substantially interrupted.</td>
<td>Households have reduced the quality and variety of the food they are eating but have not decreased the amount they are consuming. This is usually precipitated by inadequate income for food, given that the food budget is one of the few flexible expenditures.</td>
<td>Households have one or more members with routinely altered eating patterns, including reducing food intake due to a lack of money or other resources. The likelihood of one or more members of the household experiencing hunger is greater in this category.</td>
</tr>
<tr>
<td>Potential health implications</td>
<td>Optimal health and reduced risks for diet-related conditions.</td>
<td>Worrying and anxiety about where future meals will come from has negative effects on adult and child mental health, child behaviour and development (mediated by parenting practices) (Seivwright, Callis, &amp; Flatau, 2020).</td>
<td>Diet may be altered to include energy dense, nutrient poor foods that can contribute to overweight, obesity and chronic conditions. Diet may also be lacking in diversity resulting in reduced consumption of essential vitamins and minerals contributing to micronutrient deficiencies.</td>
<td>This experience includes aspects of mild and moderate food insecurity but is worsened further by reductions in the size or frequency of meals. This experience can affect the health and wellbeing of pregnant women, in-utero foetal growth and outcomes as well as children’s wellbeing, growth and development; manifesting in greater risks for conditions such as asthma, as well as mental illness in adolescence and early adulthood (Kirkpatrick, McIntyre, &amp; Potestio, 2010).</td>
</tr>
</tbody>
</table>

Table continued over page
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### Coping strategies

**Category**

- **High food security** (Food secure)
- **Mild food insecurity** (Marginal food secure)
- **Moderate food insecurity** (Low food security OR food insecure without hunger)
- **Severe food insecurity** (Very low food security OR food insecure with hunger)

#### Coping strategies

<table>
<thead>
<tr>
<th>Category</th>
<th>High food security</th>
<th>Mild food insecurity</th>
<th>Moderate food insecurity</th>
<th>Severe food insecurity</th>
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</thead>
<tbody>
<tr>
<td>(Synonyms)</td>
<td>(Food secure)</td>
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<td>(Very low food security OR food insecure with hunger)</td>
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<td></td>
<td></td>
<td></td>
<td>food insecure without</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>hunger)</td>
<td></td>
</tr>
<tr>
<td><strong>Coping strategies</strong></td>
<td>None</td>
<td>Strategies used by</td>
<td>The coping strategies</td>
<td>Coping with this level</td>
</tr>
<tr>
<td></td>
<td></td>
<td>households that may</td>
<td>used by households when</td>
<td>of food insecurity may</td>
</tr>
<tr>
<td></td>
<td></td>
<td>not yet be adaptive:</td>
<td>they experience mild</td>
<td>involve:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• overeating when</td>
<td>food insecurity become</td>
<td>skipped or missed</td>
</tr>
<tr>
<td></td>
<td></td>
<td>food is available in</td>
<td>adaptive. Households</td>
<td>meals (Salvation Army,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>preparation for scarcity</td>
<td>may resort to using</td>
<td>2017; Vandenberg &amp;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>shopping for specials</td>
<td>emergency food relief.</td>
<td>Galvin, 2016)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>(Kleve et al., 2018)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• buying in bulk</td>
<td></td>
<td>reduced meal sizes</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• reducing the purchase of foods with a</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• increasing consumption</td>
<td>potentially high waste</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• buying foods past their use-by dates</td>
<td>factor (e.g. fresh fruit</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• using spoiled foods (e.g. cutting mould off cheese or bread)</td>
<td>and vegetables)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>• making meals ‘stretch’ (McKenzie &amp; McKay, 2018)</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>• skipping social activities that feature food, such as having friends over for a meal. (Kleve et al., 2018).</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Populations affected by food insecurity

Food insecurity rarely occurs in isolation but rather alongside economic, health and housing insecurity (Herault & Ribar, 2016). Some population groups (particularly those experiencing disadvantage or vulnerability) are more likely to be food insecure (Smith, Rabbitt, & Coleman-Jensen, 2017; Temple, 2018; Temple et al., 2019).

Some of the populations most at risk include:

- individuals experiencing material and/or financial hardship
- people living in remote areas
- Aboriginal and Torres Strait Islander peoples
- people from a CALD background, including refugees and people seeking asylum
- single-parent households
- older people
- people experiencing homelessness
- children.

Other non-demographic factors associated with food insecurity can be grouped into two distinct categories (see Table 2 on page 10). While these factors alone can reduce food security, when experienced by the population groups above, they further heighten risk and increase vulnerability.
Table 2: Non-demographic factors associated with food insecurity

<table>
<thead>
<tr>
<th>Category</th>
<th>Factors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Factors associated with diagnosed disorders</td>
<td>• mental illness</td>
</tr>
<tr>
<td>and disabilities</td>
<td>• disability (Schwartz, Buliung, &amp; Wilson, 2019)</td>
</tr>
<tr>
<td></td>
<td>• dual diagnosis (e.g. mental health and substance misuse disorders)</td>
</tr>
<tr>
<td></td>
<td>• serious illness or chronic conditions (Temple, 2018)</td>
</tr>
<tr>
<td>Factors associated with social conditions</td>
<td>• violence (witnessing or experiencing)</td>
</tr>
<tr>
<td></td>
<td>• removal of children</td>
</tr>
<tr>
<td></td>
<td>• relationship breakdown</td>
</tr>
<tr>
<td></td>
<td>• trouble with the police</td>
</tr>
<tr>
<td></td>
<td>• racism and discrimination (Temple, 2018)</td>
</tr>
<tr>
<td></td>
<td>• the impact of intergenerational or childhood trauma (Chilton, Knowles, &amp; Bloom, 2017)</td>
</tr>
<tr>
<td></td>
<td>• reintegration after incarceration (Booth &amp; Pollard, 2020; Testa &amp; Jackson, 2019)</td>
</tr>
</tbody>
</table>

Individuals experiencing material and/or financial hardship

As discussed in ‘Experiences of food insecurity’, above, individuals in low-income households are vulnerable to food insecurity, often experiencing challenges in purchasing adequate quantities of food, as well as appropriate healthy food (NSW Council of Social Service, 2018; Ramsey, Giskes, Turrell, & Gallegos, 2011b; Ward, Williams, & Connally, 2013). This is particularly the case for those with lower incomes living in remote areas, relying on government financial assistance or as single parents, who must spend a greater proportion of their disposable income to buy healthy food (Pollard, Savage, Landrigan, Hanbury, & Kerr, 2015; Ward et al., 2013).

This vulnerability is compounded by the rising cost of living (e.g. housing, utilities, petrol) (Foodbank, 2018a). A lack of public or private transport to and from supermarkets or other outlets may also affect those on lower incomes (NSW Council of Social Service, 2018).

The Salvation Army’s (2017) national survey3 of individuals accessing its emergency relief and community support services found:

- Over two-thirds (69%) identified their top issue as not being able to afford enough food to eat.
- Almost half (45%) reported they went without meals, went hungry when they ran out of money, and skipped meals to manage finances.

People living in remote areas

Communities in remote areas where food outlets are sparse and/or not well linked to public transport are also at risk of food insecurity (Foodbank, 2018b; National Rural Health Alliance, 2016; Northern Territory Council of Social Services, 2014; Queensland Health, 2014). This is attributable to healthy food being more expensive in rural areas, and even more expensive in remote areas due largely to additional transport and logistics costs for suppliers that are passed on to retailers and, ultimately, customers (Pollard et al., 2015; Ward, Coveney, Verity, Carter, & Schilling, 2012). Foodbank (2018a) estimates those in rural or remote areas are a third more likely to be food insecure than those living in cities. Similarly, Queensland Health’s 2014 study found households in remote areas need a significant proportion (26.5%) of their disposable income to afford healthy food. Other issues facing those living in remote areas include:

- food deserts, where a small number of full-service grocery stores exist within a locality (Godrich, Lo, Davies, Darby, & Devine, 2017; NSW Council of Social Service, 2018; Ward et al., 2013)
- fewer large supermarkets forcing dependence on smaller shops that stock a limited range of foods, often at higher prices (Turrell, Hewitt, Patterson, Oldenburg, & Gould, 2002)
- limited connections to appropriate food suppliers, which increases food transport and logistics costs (Australian Red Cross, Dietitians Association of Australia, & Public Health Association Australia, 2013; Davy, 2016; National Rural Health Alliance, 2016)
- a higher density of, or greater access to, take-away food outlets compared to healthier food outlets (Vandenberg & Galvin, 2016).

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3 The Salvation Army’s 2017 National Economic and Social Impact Survey explored the levels of disadvantage experienced by those who access its 272 Emergency Relief and Community Support services, with 1,380 respondents.
Aboriginal and Torres Strait Islander peoples can be vulnerable to food insecurity. The 2012-13 Australian Aboriginal and Torres Strait Islander Health Survey found 22% of Aboriginal and Torres Strait Islander people were living in a household where someone went without food when household supplies ran out, compared to 3.7% in the non-Indigenous population (ABS, 2015b). Factors that can affect the food security of Aboriginal and Torres Strait Islander people include: low income; household infrastructure and overcrowding; and access to transport, storage and cooking facilities (Browne, Laurence, & Thorpe, 2009).

The majority (79%) of Aboriginal and Torres Strait Islander peoples live in non-remote areas (Australian Institute of Health and Welfare [AIHW], 2017); with 36.8% living in major cities (Markham & Biddle, 2016). The ABS (2015b) found that 20% of this cohort were living in a household that had run out of food and couldn’t afford to buy more, compared to 31% of those living in remote areas. These statistics are similar to the those of other studies (Byrne & Anderson, 2014; Murray et al., 2014; Rogers, Ferguson, Ritchie, Van Den Boogaard, & Brimblecombe, 2018). In remote areas, as noted above (see ‘People living in remote areas’), Aboriginal and Torres Strait Islander peoples are less likely to have large supermarkets that benefit from economies of scale and can offer healthy food at affordable prices as a result (Ferguson et al., 2016; Palermo, Walker, Hill, & McDonald, 2008). For example, Ferguson and colleagues (2016) found food products in remote areas were, on average, 60% and 68% more expensive than advertised prices for Darwin and Adelaide supermarkets, respectively.

People from a CALD background, including refugees and people seeking asylum

People from CALD backgrounds are at higher risk of food insecurity (Alonso, Cockx, & Swinnen, 2018). In particular, migrants from refugee backgrounds can be vulnerable to food insecurity due to:

- difficulty finding culturally appropriate food suppliers and unfamiliarity with some Australian foods (Lawlis, Islam, & Upton, 2018; McKay, Bugden, Dunn, & Bazerghi, 2018; Salvation Army, 2017)
- needing to adapt food skills and knowledge because of changes in the way food is sourced and consumed, such as cooking with frozen foods, using new appliances, shopping in new contexts and cooking in a less communal environment (Lawlis et al., 2018; Moffat, Mohamed, & Newbold, 2017)
- challenges encountered during resettlement, including poverty, unemployment, visa conditions, compromised health, language and cultural barriers (Lawlis et al., 2018)
- sending funds to family members remaining in their countries of origin (Gallegos, Ellies, & Wright, 2008)
- restricted access to government financial assistance or work-related income, particularly for asylum seekers (McKay & Dunn, 2015). A study conducted by McKay and colleagues (2018) found that for some asylum seekers with limited or no income, emergency food relief services were the main source of weekly food. The same study also found that despite financial and food insecurity, two-thirds of these asylum seekers were not accessing emergency food relief services. This was attributed to barriers such as: food not being culturally or religiously appropriate; discomfort with taking food from others in need; or transport difficulties.

Single-parent households

Single-parent households experience periods of food insecurity more frequently than other Australian households (Give Where You Live Foundation, 2014; Law et al., 2011; National Rural Health Alliance, 2016; Vandenberg & Galvin, 2016). This may be due to additional time pressures (Law et al., 2011; Queensland Health, 2014) or limited disposable income.

The risk of food insecurity for single-parent households is likely to be heightened by the presence of other factors such as disabilities, mental health difficulties, living in remote areas and relying on government financial assistance (Pollard et al., 2015; Vandenberg & Galvin, 2016). A West Australian study found single-parent households receiving government financial assistance needed 36% of their disposable income to purchase weekly meals (Pollard et al., 2015). Food insecurity resulting from being a single parent is more commonly experienced by women. Foodbank’s Hunger report (2018a) highlights food insecure women are 21% more likely than food insecure men (49% compared to 28%) to have raised children on their own for an extended period of time.
Older people

Research findings on older people’s vulnerability to food insecurity are mixed. While ageing alone does not necessarily increase risk of food insecurity (Quine & Morrell, 2006; Temple et al., 2019), some factors associated with older people’s health and living conditions may make them vulnerable to food insecurity (Forsey, 2018; National Rural Health Alliance, 2016). Australia’s National Rural Health Alliance (2016) indicates those aged 70–80 years are at risk of food insecurity when they are reliant on government financial assistance, in rented accommodation and unable to live independently. Other factors that may also place older people at greater risk of food insecurity include: illness, frailness and social isolation (Forsey, 2018); as well as limited mobility, including capability to walk to local food outlets or to lift or carry goods (Burns, Bentley, Thornton, & Kavanagh, 2015; NSW Council of Social Service, 2018; Sorbello & Martin, 2012).

People experiencing homelessness

Homelessness is commonly associated with food insecurity (Chigavazira, et al., 2014; Crawford et al., 2014; Herault & Ribar, 2016). People experiencing homelessness are vulnerable to food insecurity due to a lack of funds to purchase nutritious food and limited facilities for meal preparation (Chigavazira et al., 2014). Despite a greater proportion of women generally experiencing food insecurity (27% compared to 18% of males) (Foodbank, 2018a), Herault and Ribar (2016) found the association between homelessness and food insecurity is stronger for men than women. Additionally, Crawford and colleagues (2014) identified various barriers that particularly impact the food security of young people experiencing homelessness including: living in poverty or with low income; low access to affordable, healthy food stores; and a lack of cooking and storage facilities in temporary accommodation (e.g. community housing, private rentals or friend’s/family’s homes).

Children

A study by Foodbank (2018b) found children are more likely to live in a food insecure household (22%) than adults (15%). As children are generally protected by adults for as long as possible, food insecurity among children is a potential indicator of greater severity in household food insecurity (Knowles, Rabinowich, De Cuba, Cutts, & Chilton, 2016). Children are particularly at risk if they are living in households affected by any of the factors in this section. For example, a study by Godrich and colleagues (2017) on the prevalence of food insecurity among rural and remote West Australian children found around one-fifth of children to be food insecure; particularly those whose family relied on government financial assistance or lived in a low socio-economic area. For children, food insecurity can mean: going without meals or fresh food; eating meals at other family members’ houses; and attending school without breakfast (Foodbank, 2018a; Foodbank, 2018b). This can negatively impact children’s physical health, their social and emotional wellbeing, and their academic achievement.

Health issues

Children from food insecure households may experience poorer general health compared to their food secure counterparts (Holley & Mason, 2019). Internationally, and in Australia, children experiencing food insecurity are:
- approximately twice as likely to have asthma
- almost three times as likely to have iron-deficiency anaemia (Kirkpatrick et al., 2010).

In Australia, childhood experiences of food insecurity have also been linked to:
- the current childhood ‘obesity epidemic’ (Gill et al., 2009), due to higher consumption of energy-dense foods or additional carbohydrates to compensate for overall lack of food (NSW Council of Social Service, 2018)
- socio-economic inequalities in lifestyle-related chronic diseases in adulthood, such as type-2 diabetes, higher rates of coronary heart disease and some cancers (Ramsey et al., 2011a).
Social, emotional and behavioural issues

A lack of food has been linked to emotional changes such as declines in happiness, irritability, tantrums, hyperactivity, misbehaviour at home and school, increased lethargy, and impacts on sleep (Foodbank, 2018b; Ramsey et al., 2011a). Ramsey and colleagues (2011a) also suggest children from food insecure homes may be up to 2.5 times more likely to experience borderline or atypical emotional and behavioural difficulties. A lack of food has also been linked to children and parents not inviting people to their home due to embarrassment and shame at not having food (Foodbank, 2018b; Ramsey et al., 2011a).

Academic issues

Food insecurity can affect children's school readiness, academic achievement and school attendance, as well as their energy to participate in extracurricular physical activity (Edith Cowan University & Telethon Kids Institute, 2018; Foodbank, 2018b; MacDonald, 2019). Two-thirds (67%) of Australian teachers report having students come to school hungry or without having eaten breakfast, and estimate that these students lose more than two hours a day in learning (Australian Government Department of Education and Training, 2019; Foodbank, 2018b).

Conclusion

While it is difficult to capture the full extent of food insecurity in Australia with the figures that are available, some populations are more likely to be food insecure than others. Attending to the personal or household contributors of food insecurity, while important, does not address the origins of the issue. This is because food insecurity rarely happens in isolation but rather in co-occurrence with economic, health and housing insecurity and other hardships (Herault & Ribar, 2016). As such, public policy and community level solutions are required to address food insecurity for all Australians. For child and family welfare service practitioners, strategies responding to food insecurity typically focus on: building food and nutrition literacy through education; alleviating hunger through emerging food relief; and/or partnering to deliver local solutions. Child and family welfare practitioners and services can support food insecure households through sound screening and identification processes, and referrals to appropriate supports.

Author and acknowledgements

This practice paper was updated by Mitchell Bowden, Manager, Engagement and Impact, with the Child Family Community Australia information exchange, AIFS.

The author would like to thank Dr Rebecca Armstrong, former Executive Manager, Knowledge Translation and Impact, AIFS, for her expertise in developing early drafts of this paper, and Sam Morley for his support in developing the early research and drafts of this paper.

The author consulted with Dr Sue Kleve, Professor Danielle Gallegos and Dr Rebecca Lindberg from the Australian Household Food Security Research Collaboration for their expertise on the ‘Experiences of food insecurity’ and the ‘Screening for food insecurity’ sections of this practice paper and practice guide.

The 2011 edition of this practice paper was authored by Kate Rosier, Research Officer, AIFS.
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