Position Statement

# THE FRUIT & VEGETABLE CONSORTIUM

A fresh approach to increasing fruit and vegetable consumption



## A fresh approach to increasing fruit and vegetable consumption

Based in Victoria, the Fruit & Vegetable Consortium was formed in response to the alarmingly low rates of fruit and vegetable consumption in Australia. Just half of Australian adults and two thirds of children have an adequate daily intake of fruit. And of greater concern is the fact that just 7% of Australian adults and 5% of children meet the recommended guideline for daily vegetable intake.

The Fruit & Vegetable Consortium brings together key organisations to collectively advocate for comprehensive joint action to address Australia's complacency about eating fruit and vegetables.

46

Just half of Australian adults and two thirds of children have an adequate daily intake of fruit. And of greater concern is the fact that just 7% of Australian adults and 5% of children, meet the recommended guideline for daily vegetable intake.

90

## What are we asking for?

To deliver a substantial and sustained increase in vegetable consumption, the Fruit & Vegetable Consortium is calling for:

- Funding of a broad-reaching, well-executed and appropriately resourced behavioural change campaign implemented over a number of years, with an initial focus on promotion of vegetables.
- Collaborative strategies that address the systemic barriers to consumption (eg access, availability, price, convenience and food literacy).
- Investment in locally-relevant, community led programs with demonstrated efficacy in increasing vegetable consumption, particularly for populations with the lowest intakes.



Health benefits for individuals



Cost savings for government



Real economic benefit to growers





Diets rich in fruit and vegetables have been shown to protect against high blood pressure, obesity, heart disease, stroke, type 2 diabetes and some cancers.<sup>[1-3]</sup>

#### We need to eat more vegetables.

Just half of Australian adults and two thirds of children have an adequate daily intake of fruit.
But of greatest concern is that only 7% of Australians and 5% of children meet the guideline for daily vegetable intake.<sup>[4]</sup>

#### For some communities, rates are even lower.

Aboriginal and Torres Strait Islander peoples, for example, consume on average of 1.8 serves of vegetables and 1.2 services of fruit per day compared with 2.7 serves of vegetables and 1.5 serves of fruit among non-Indigenous people.<sup>[5]</sup>

### Fruit and vegetable consumption is decreasing.

In 2004, 14% of adults consumed the recommended amount of vegetables. Ten years later, in 2014, just 7% met the guidelines. [4]

#### Barriers to fruit and vegetable consumption.

These barriers have been well documented and include issues of preparation time, cost, access and convenience, quality/spoilage, family influence, gender, and food knowledge/skills.<sup>[6,7]</sup>

For some populations (such as Aboriginal and Torres Strait Islander peoples, those from socio-economically disadvantaged backgrounds and those living in rural and remote communities), these challenges are compounded by underlying socio-economic issues such as limited income, low education level, cultural background, or remoteness.<sup>[8-10]</sup>

### Food expenditure patterns are changing.

Food knowledge and cooking skills are in decline as we heavily rely on foods cooked outside the home.

- Spending on out of home meals and fast food
  has risen dramatically while fruit and vegetable
  expenditure has remained static over the past 20 years.<sup>[11]</sup>
- Australians now spend 34% of their food budget on out of home meals and fast food, compared to 25% in 1989.

66

If every Australian ate an additional half a cup of vegetables per day, government health expenditure would reduce by an estimated \$100 million per year (\$60.7 million to the Commonwealth Government and \$39.2 million to states and territories).

9

## Increasing vegetable consumption will reduce government exependiture.

Almost one billion dollars in government health expenditure is attributable to low fruit and vegetable consumption and this figure is increasing. If every Australian ate an additional half a cup of vegetables per day, government health expenditure would reduce by an estimated \$100 million per year (\$60.7 million to the Commonwealth Government and \$39.2 million to the states and territories). [12]

## Even modest improvements in vegetable consumption will have populaton health benefits.

An increase of 1 serve of vegetables a day (1/2 cup cooked vegetables) reduces the risk of death from all causes by 5% and deaths from heart disease and stroke by 4%.<sup>[13]</sup>





Economic modelling suggests a \$10 million marketing spend per year would deliver:

- an increase in vegetable consumption of around 0.5 serves per person, per day, within 5 years.
- economic benefits to vegetable levy payers in the vicinity of a \$1 billion net increase in farm income over 11 years.
- benefits to others in the supply chain. Retailers would gain an 8 per cent increase in prices by 2030 and benefit from an improvement in gross margin of \$368 million by year 2030 and achieve a cumulative gain of \$1.9 billion over the 11 years. [12,14]

## Increasing fruit and vegetable consumption is possible.

There is evidence internationally and domestically that comprehensive, multi-component campaigns can impact consumption. [15, 16] Two examples are described here. The Danish '6-a-Day' program (running since 1995) has had sustained success in increasing fruit and vegetable intakes across the Danish population. [17]

This program involved a population-wide campaign, and worked alongside schools, workplaces, and industry to 'normalise' the availability of convenient vegetable-based meals and snacks.

Similarly, the UK Food Dudes school-based program successfully increased fruit and vegetable consumption in 4-11 year-olds through sustained investment over many years (with the greatest increases in consumption on those with the lowest intakes). The program involved repeated exposure to fruit and vegetable tastings and used the power of influential role models, the Food Dudes, to model fruit and vegetable consumption.<sup>[18]</sup>

Closer to home, the 'Go for 2 and 5' campaign in Western Australia was a multi-strategy campaign that ran during 2002-2005. The campaign saw a population net increase of 0.2 serves of fruit and 0.6 serves of vegetables across the three-year campaign period.<sup>[19]</sup>

#### Critical success factors

Evidence tells us that short-term 'advertising' campaigns are not the solution. Sustained, behavioural change strategies are required to address the key barriers to consumption.<sup>[20, 21]</sup>

# Key features of successful programs include:



Collaboration between industry, retail, government and not-for-profit organisations



Population wide-campaign in conjunction with efforts that seek to promote convenient access to vegetables



Programmes with a behavioural change; goal setting; or family engagement component



Clear and consistent messages



Programmes that are culturally targeted or relevant to a specific demographic



Programmes that promote consumption frequency



Campaigns that run over a number of years

## Position Statement



- World Cancer Research Fund International,
   Diet, Nutrition, Physical Activity and Cancer:
   a Global Perspective The Third Expert Report.

   2018: London available from: https://www.wcrf.org/dietandcancer.
- Boeing H, et al., Critical review: vegetables and fruit in the prevention of chronic diseases.
   European Journal of Nutrition., 2012. 51(6): p. 637-63.
- Global Burden of Disease Diet Collaborators, Health effects of dietary risks in 195 countries, 1990-2017: a systematic analysis for the Global Burden of Disease Study 2017. Lancet, 2019. 393(10184): p. 1958-1972.
- Australian Bureau of Statistics (ABS), National Health Survey: First Results 2014–2015, . 2015: Canberra.
- Australian Bureau of Statistics, 4727.0.55.008 -Australian Aboriginal and Torres Strait Islander Health Survey: Consumption of Food Groups from the Australian Dietary Guidelines, 2012-13. 2014: https://www.abs.gov.au/AUSSTATS/abs@. nsf/Lookup/4727.0.55.008Main+Features12012-13?OpenDocument Accessed August 1, 2019.
- Pollard C, Determinants of fruit and vegetables consumption among adults in Perth, Western Australia. 2008: https://espace.curtin.edu.au/ handle/20.500.11937/358 Accessed August 1, 2019.
- Rasmussen M, Krølner R, and e.a. Klepp KI,
   Determinants of fruit and vegetable consumption
   among children and adolescents: a review of the
   literature. Part I: Quantitative studies. Int J Behav
   Nutr Phys Act, 2006. 3(22).
- 8. Timperio, A., et al., *Children's fruit and vegetable intake: associations with the neighbourhood food environment*. Preventive Medicine 2008. 46: p. 331-335.
- Pearce, J., et al., The contextual effects of neighbourhood access to supermarkets and convenience stores on individual fruit and vegetable consumption. J Epidemiol Community Health, 2008. 62(3): p.198-201.
- Cassady, D., K.M. Jetter, and J. Culp, Is Price a Barrier to Eating More Fruits and Vegetables for Low-Income Families? Journal of the American Dietetic Association, 2007. 107 (11): p. 1909-1915.
- Australian Bureau of Agriculture and Resource Economics and Sciences, Food demand in Australia: Trends and issues 2018. 2018: https://data.gov. au/dataset/ds-dga-9960b691-1330-4cb7-8f3fe1b3b810069a/details?q= Accessed August 1, 2019.

- Deloitte Access Economics, The impact of increasing vegetable consumption on health expenditure.
   Hort. Innovation Limited: Melbourne.
- 13. Wang X, et al., Fruit and vegetable consumption and mortality from all causes, cardiovascular disease, and cancer: systematic review and doseresponse meta-analysis of prospective cohort studies. BMJ 2014. 349 (g4490).
- 14. McKinna D, Building the business case to grow domestic demand for vegetables in Australia (VG17013). 2018, Hort Innovation: https://www. horticulture.com.au/growers/help-your-businessgrow/research-reports-publications-fact-sheetsand-more/vg17013/Accessed
- 15. Morley, B.C., Niven, P.H., Dixon, H.G., Swanson, M.G., McAleese, A.B. and Wakefield, M.A., Controlled cohort evaluation of the LiveLighter mass media campaign's impact on adults' reported consumption of sugar-sweetened beverages. . BMJ, 2018. 8(4).
- 16. Morley, B.e.a., Evaluation of the LiveLighter Campaign: Phase 4 "Junk Food" 2016, Centre for Behavioural Research in Cancer: Cancer Council Victoria Melbourne.
- 17. McConchie, R.R.R., 2006 "Promoting consumption of fruit and vegetables for better health. Have campaigns delivered on the goals?" Appetite, 2014.
- 18. Lowe, F. and P. Horne, Food Dudes: Increasing children's fruit and vegetable consumption. Cases in Public Health Communication & Marketing, 2009. 3 (161-185 Available from: www.casesjournal. org/volume).
- Pollard CM, et al., Increasing fruit and vegetable consumption: success of the Western Australian Go for 2&5 campaign. Public Health Nutr, 2008. Mar 11(3): p. 314-20.
- 20. Rekhy, R. and R. McConchie, Promoting Consumption Of Fruit and Vegetables For Better Health - Have Campaigns Delivered On The Goals? Appetite, 2014. 79.
- 21. Grunseit A, et al., An updated narrative review:

  Mass media campaigns addressing physical activity,
  nutrition and obesity in Australia 1996–2015. 2016,
  The Australian Prevention Partnership Centre.:
  https://preventioncentre.org.au/wp-content/
  uploads/2016/08/1606-Mass-media-evidencereview-final.pdf Accessed August 1, 2019.

## Position Statement

## What's next?

We are developing a business case and prospectus for potential funders. This will outline the investment needed for a sustained, comprehensive behavioural change campaign.

## Show your support

We are seeking your support and endorsement of this Position Statement. Your support will strengthen the call for increased investment in a long-term strategy to increase fruit and vegetable consumption.

# THE FRUIT & VEGETABLE CONSORTIUM

A fresh approach to increasing fruit and vegetable consumption

Members of the consortium include:





















#### Visit and stay up-to-date

Visit thefvc.org.au for more information or contact the Fruit & Vegetable Consortium Secretariat

Michelle Lausen at mlausen@nutritionaustralia.org or Chair Lucinda Hancock at lhancock@nutritionaustralia.org

Make sure you register your details so you can stay up to date with our progress.