

Dietary Patterns for Heart Health: an evidence informed approach.

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ACRA Conference

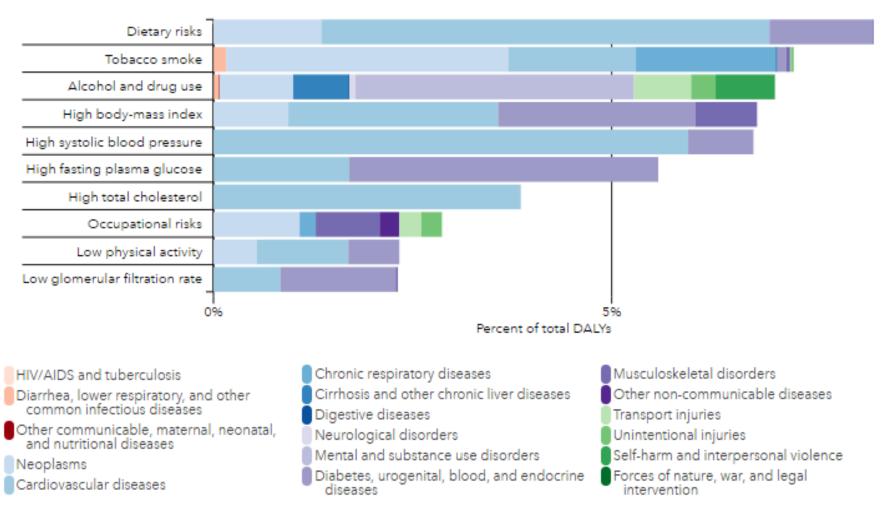
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- · Members of Heart Foundation advisory committees and the National Board, including
 - Food & Nutrition Advisory Committee
 - Clinical Issues Committee
 - · Cardiovascular Health Advisory Committee
 - National Board of National Heart Foundation of Australia
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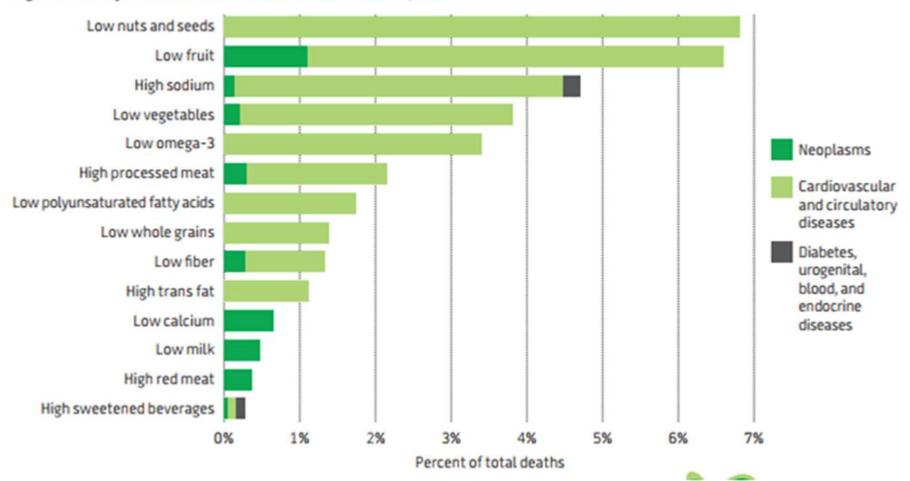




Top 10 causes of DALYs with key risk factors, 2015











"Based on the current evidence, the optimal dietary pattern to reduce CVD is one that emphasizes

wholegrains, fruits and vegetables, legumes, nuts, fish, poultry, and moderate dairy and heart-healthy vegetable oil intake;

this pattern will likely reduce the CVD risk by about a third."





AN EVIDENCE INFORMED APPROACH

- Systematic review
- Analysed evidence from systematic reviews published since 2010
- Primary and secondary prevention of CVD
- Assessed using NHMRC Framework

Dietary Patterns

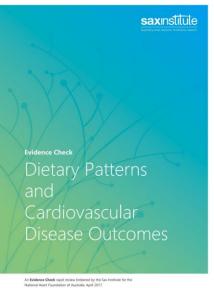
Generated 16 evidence statements (4 primary, 3 secondary, 9 primary and secondary)

Dietary Fats

 Reviewed >50 studies; 4 evidence statements

Complemented with:

- Previous Heart Foundation Summaries
- Eating pattern trends (ABS and secondary analysis)
- Policy analysis



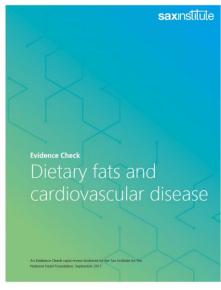






Table 3: Summary of evidence ratings relating to identified dietary patterns for primary prevention of CVD

		Blood	Lipids	Weight or body composition	CVD events and/or mortality
	A	• DASH	x	х	• DASH
GRADE	В	х	x	x	Healthy/prudent
EVIDENCE GRADE	c	х	Mediterranean	Low GI/GL	Mediterranean
	D	х	x	x	×



Diet 43

X

X

X

X

Diet 16



Similarities more important than differences...

Dietary patterns which recommend:

100% - Fruits, Vegetables, Whole grains

85% - Beans/Legumes

60% - Fish and Reducedfat Dairy,

50% - Nuts/Seeds.

40% - Olive oil as main cooking oil

25% - Iow intake of Red Meat and Processed Meat Products.

Table 2: Food components of the eight dietary patterns which reported on specific foods and/or key nutrients

Dietary Pattern	Healthy/prudent Diet ²⁴⁻²⁸	Mediterranean Diet V1 ²⁹⁻³¹	Mediterranean Diet V2 32-38	Vegetarian Diet ³⁹
Food component				
Fruits	X	Х	х	Х
Vegetables	x	×	x	х
Whole grains/breads/cereals ¹	х	х	х	Х
Fish/seafood	х	х	х	
Low-fat dairy	X	х	х	
Poultry	X			
Beans/legumes	х	х	х	Х
Nuts/seeds			x	
Olive oil	Х	х	X	i e
Rapeseed oil				
Alcohol (red wine)		х	х	
Meat and meat products				
Micronutrients ²	1			
Plant sterols				
Limit on saturated fat		х		
Limit on meat/meat products		X	X	×
Limit on refined sugars			Х	
Limit on sodium				



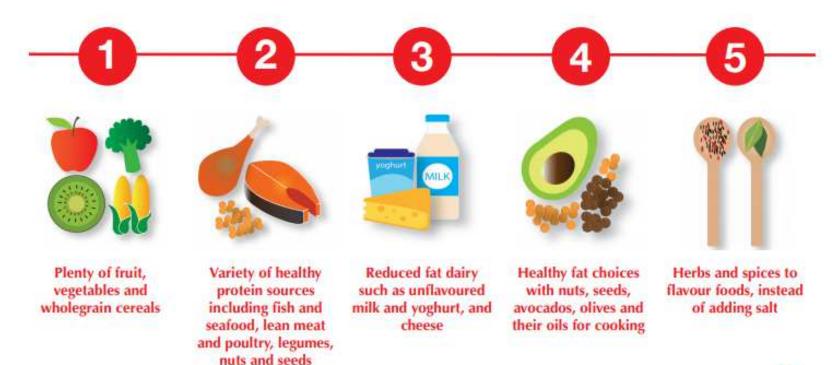
Collins CE, Burrows TL, Rollo ME. *Dietary Patterns and Cardiovascular Disease Outcomes: an Evidence Check rapid review* brokered by the Sax Institute for the National Heart Foundation of Australia, 2017. Accessed August 2017, from: https://www.heartfoundation.org.au/images/uploads/main/For professionals/Dietary patterns and cardiovascular disease outcomes.pdf



Heart healthy eating principles

Healthy eating patterns do not rely on one type of food or one type of nutrient to promote heart health. Heart healthy eating patterns are based on a combination of foods, chosen regularly, over time. This optimal combination can be categorised into five healthy eating principles.

This style of eating is naturally low in saturated and trans fats, salt and added sugar and rich in wholegrains, fibre, antioxidants and unsaturated fats (omega-3 and omega-6). Eating this way will improve the heart health of all Australians by reducing cardiovascular disease (CVD) risk factors such as high blood pressure and blood lipids and decreasing the risk of CVD events and mortality. In addition to the quality of foods consumed, their quantity is also an important determinant of a heart healthy eating pattern, as it can lead to weight gain and in turn, heart disease.







Discretionary foods and drinks

"...not an essential or necessary part of our dietary patterns." 1

Meaning there is a zero requirement; yet make up >30% of average energy intake²

Following the Heart Foundation eating pattern means that discretionary foods are naturally excluded and are not part of a heart healthy eating pattern.

No discretionary foods feature in research on

healthy eating patterns.3



^{1.} National Health and Medical Research Council, 2013, *Australian Dietary Guidelines*. Canberra: Australian Government. https://www.nhmrc.gov.au/ files nhmrc/publications/attachments/n55 australian dietary guidelines 130530.pdf

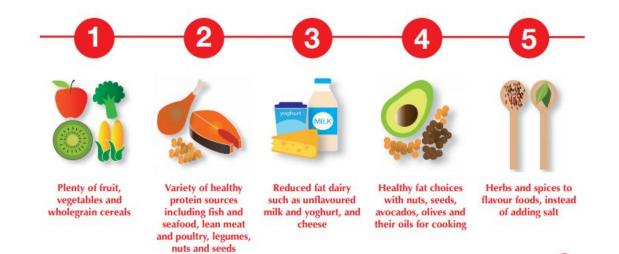
^{2.} ABS (2016) 4364.0.55.007 - Australian Health Survey: Nutrition First Results - Foods and Nutrients, 2011-12, http://www.abs.gov.au/ausstats/abs@.nsf/Lookup/by%20Subject/4364.0.55.007~2011-12~Main%20Features~Discretionary%20foods~700 >

^{3.} Heart Foundation (2017) Position on Dietary Patterns.



Follow Heart Healthy Eating Principles which encourage:

- Replacement of saturated and trans fats with unsaturated fats
- Limit trans fats as much as possible
- No recommendations for dietary cholesterol
- Include wholegrains and soluble fibre
- Limit refined CHO (including free sugars <10%E)



Limit discretionary food and drinks

- Over one-third (35%) of total daily energy.
- Major contributor to saturated fat, trans fat and refined carbohydrates (including free sugars)
- No discretionary foods feature in research on healthy eating patterns

Health professionals can consider supplementing nutrition therapy with:

- omega-3 in people with heart failure and people with high triglycerides, and
- plant sterols enriched foods in people with high absolute risk who required cholesterol lowering therapies.

	Nutrient	Target	
	Saturated fat	<10% total energy (E)	
	Omega-3 PUFA Combined EPA/DHA ALA	250-500mg /day 1g /day	
	Omega-6 PUFA	4-10% E	
	Trans fat	<1% E	
	Free sugars	<10% E	
_	Sodium	<2,000mg /day	

Eating for Heart Health

Salt and He

HOME N

Your heart

After my heart attack

Healthy eating

Active living

Get involved

CONTACT

♠ / FOR PROFESSIONALS / FOOD AND NUTRITION / POSITION STATEMENTS

Position statements

Heart Foundation HELPLINE 13 11 12

statements for health professionals including alth professionals working in the area of nutrition

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food, lean meat and poultry, legumes, nuts and

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their oils for cooking

, salt and added sugar and rich in wholegrains,

-6). Eating this way will improve the heart health of
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Position statements

- Position statement: <u>Eating for heart health (PDF)</u>
- Position statement: <u>Dietary Fats (PDF)</u>
- · Position statement: Salt (PDF)
- · Position statement: Fish & Seafood (PDF)
- Position statement: <u>Phytosterol/stanol enriched foods (PDF)</u>

Evidence Check
Dietary Patterns
and
Cardiovascular
Disease Outcomes

An Evidence Check rapid review brokered by the Sax Institute for the National Heart Foundation of Australia. April 2017.

https://www.heartfoundation.org.au/for-professionals/food-and-nutrition/position-statements