

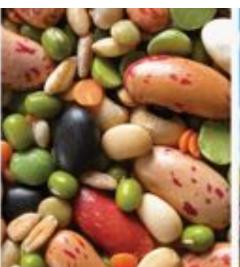
What's to Gain from Grains and Legumes? A role for staple foods in chronic disease prevention

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Outline



- What's to gain from grains and legumes?
- Are Australians eating enough grains and legumes to benefit?
- Why do some people avoid grains and legumes?
- What GLNC is doing to spread the word
- How health care professionals can help

Grains and Legumes: part of a healthy diet to prevent chronic disease

Introducing Grains & Legumes Nutrition Council



Cultivating Good Health

Vision - Independent voice for grains and legumes in nutrition and health

Evidence

- Nutrition science
- Consumer's attitude and behaviour

Stakeholders

Consult to achieve support for public health messages

Health Professionals

Communicate evidence to support public health messages

Values - Integrity, Independence, Trust

GLNC Contributors













































Sanitarium

Health Benefits of Grains



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- Eating wholegrain foods every day is associated with:
 - 20% 30% reduced risk of cardiovascular disease and type 2 diabetes
 - reduced risk of weight gain
 - a lower BMI
 - reduced waist circumference
- Regular consumption of cereal fibre is associated with reduced risk of:
 - Type 2 diabetes
 - Bowel cancer
 - Heart disease
 - Weight gain

Grains and Legumes Health Report 2010; Australian Dietary Guidelines Evidence Summary 2011

Priebe MG et al. Cochrane Database Syst Rev 2008(1):CD006061.; Norat T et al. BMJ 2011; 343:d6617; Pereira MA et al. Arch Intern Med 2004;164(4):370-6.; Du H et al. Dietary. Am J Clin Nutr 2010;91:329-36

What's to Gain from Grains?



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Grains and Weight Management

- Higher protein diets ≠ no carbs
- 4 serves of whole grain or high fibre grain food/day
- Swap 'extra' foods to staple grain foods

Grains and Digestive Health

- Variety of fibres for bowel health
- Soluble, insoluble, resistant starch
- Gut microbiome



What's to Gain from Grains?



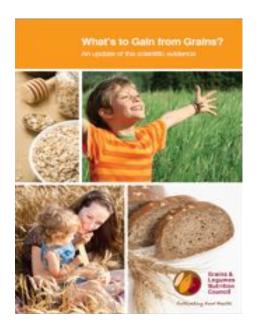
Grains and Management of IBS

- Low FODMAP diet 4 6 weeks
- Reintroduce grains and legumes

Refined Grains

- No increased risk of chronic disease from 50% refined grains
- Mostly wholegrain or high fibre
- One meal a day is OK



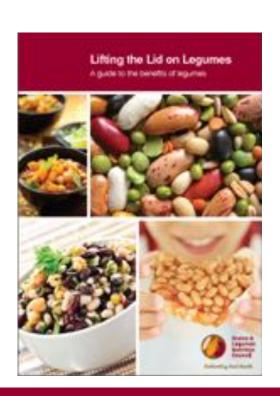


Health Benefits of Legumes



Cultivating Good Health

- Regular consumption of legumes can help:
 - reduce cholesterol
 - manage blood glucose
- A diet rich in legumes is linked to reduced risk of:
 - Type 2 diabetes
 - Heart Disease
 - Bowel cancer



Dietary Recommendations



Cultivating Good Health

Australian Dietary Guidelines / Australian Guide to Healthy Eating



Eat plenty of cereals breads, breakfast cereals, rice, pasta, noodles
'preferably wholegrain'
at least four serves each day

Eat plenty of vegetables, legumes and fruit Include lean meat, fish, poultry and / or alternatives

2 serves vegetables / legumes each day ½ -2 serves meat, legumes each day

Are we eating enough grains to benefit?



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Consumption Study - 2009 and 2011

- n=1200, nationally representative sample, 5-80yrs
 - 11% sample rural, 22 members of GrainGrowers
- 2 day food diary (self reported), and online survey
- 75 grain-based foods and legumes
- Thanks to Grain Growers Limited for their support with 2011 study

Australians are not eating enough.....



Cultivating Good Health

Recommend Australians eat 4+ serves a day, 'preferably wholegrain'

	2009	2011
total grain serves /day	5.2	4.4
% non core grain foods ^	22	28
core grain serves /day	4.1	3.2 ▼
wholegrain serves / day	1.4	1.1 *

Rural residents are less likely to know:

- Recommended number of grain serves / day
- Recommended daily intake of fibre
- Daily Target Intake of whole grain

Declining consumption due to misconceptions



Cultivating Good Health

- Lack of awareness of the health benefits of grain foods and importance of grains in the diet
 - 15% total population
 - 9% rural population
 - 20% males
- Limit grain food consumption to assist with weight loss
 - 26% total population
 - 21% rural population
 - 35% females



Declining consumption due to misconceptions



Cultivating Good Health

- Do you limit or avoid wheat in your diet?
 - 16% of total population
 - 22% females
- Diagnosis
 - 35% self diagnosed
 - 43% 25 34 yr olds

The rural perspective...

Same level of reported wheat intolerance Those in rural areas less likely to seek guidance.



Are we eating enough legumes to benefit?



Cultivating Good Health

- 23% population consumes legumes
- Users consuming 1.9 serves each day
- Decline in baked beans and soy bean consumption from 2009
- Barriers to consumption
 - Lack of awareness of health benefits 12%
 - Uncertainty about how to prepare and cook 15%
 - Perceived side effects 11%
 - Rural population: 43% 'don't think about including legumes in the diet'



GLNC's Actions



Cultivating Good Health

Definition Wholegrain Food

- Help people achieve 48g/day whole grain
 - contains whole grain
 - high in whole grain
 - very high in whole grain
- International alignment
- Research characterisation of whole grain



GLNC's Actions



Cultivating Good Health

Legume research

- Collaborate with international groups
- 2013 research project:
- Post-hoc analysis of Melbourne Collaborative
 Cohort Study
- Association between legume intake and chronic disease in an Australian population
- Publish and present findings

GLNC's Actions



Cultivating Good Health

Carbohydrate avoidance

- Wheat avoidance research
 - Joint project with CSIRO Food Futures Flagship
 - Consumer research
 - 3 day weighed food record
 - Nutritional adequacy
 - Reasons and sources of information
 - Publish and present findings



- PR campaign to address carb avoidance
 - Target personal trainers
 - Carbs as part of weight management
 - The benefits of grain and legumes

How can health care professionals help?



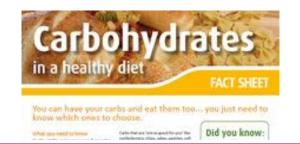
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Communicate the benefits:

- GLNC Free Fact Sheets
- GLNC website resources www.glnc.org.au

Keep up-to-date:

- GLNC E-newsletter
- Follow us on Twitter @grainslegumesNC
- GLNC Facebook GrainsLegumesNC





Legumes like chickpeas, lentils and kidney beans are full of nutrients, inexpensive and good for you. So why not try some today? We've put together some hints and ideas to get you started.





Thank You

Grains and Legumes: part of a healthy diet to prevent chronic disease





