A practical guide for dietitians

Other sources of selenium

A more sustainable diet does not necessarily have to exclude red meat or dairy altogether – therefore meat and dairy nutrient intakes need not be compromised.

This information sheet provides some useful and practical guidance with regard to plant food sources of nutrients associated with meat and dairy consumption.

Selenium is an antioxidant and is involved with the normal function of the immune and thyroid system and sperm production.¹

How much do we need?

	DRV for selenium mg ²		When we do to up their intelse?	
	Male	Female	Who needs to up their intakes?	
2-3 year olds	15		The majority of the population,	
4-6 year olds	20			
7-10 year olds	30			
11-14 year olds	45		especially aged 11 years onwards.	
15-18 year olds	70	60		
19 years and over	75	60		

Top tips for meeting selenium needs

- 5-6 Brazil nuts daily will provide 64-76mcg selenium daily which will meet recommendations for older teens and adults. Whilst 2-4 will meet the needs of the younger age groups.
- Brazil nuts (an excellent source), brown rice, pasta, wheatgerm or seeded bread, baked beans, green and brown lentils, kidney beans, cashew nuts and pecans and sunflower, chia and flax/linseeds.
 - Breakfast time: Sprinkle of seeds or nuts on to breakfast cereals, wheatgerm or seeded bread for toast.
 - Lunch: opt for wheatgerm or seeded bread or rolls, kidney bean or lentil soup sprinkled with seeds, sprinkle nuts and seeds on salads.

One Blue Dot Other Sources: Selenium

- Dinner: Add kidney beans, chickpeas, nuts and / or seeds to any of your main meals.
- Snacks and drinks: 5-6 Brazil nuts.

Plant food sources of selenium³

Food	Serving size household	Serving size g	Selenium mcg /serving
Rice – basmati white boiled	One serve	180g	9
Rice – brown - boiled	Average	180g	7.2
Pasta, white boiled	One serve	125g	10
Wheatgerm or seeded bread	2 slices	80g	10
Green and brown lentils, boiled	4 tbsp	100g	40
Kidney beans, canned and drained	4 tbsp	100g	6
Baked beans, canned in tomato sauce	Small can	200g	6
Mushrooms, fried	4 tbsp	80g	19
Brazil nuts	3-6	30g	76
Cashew nuts	handful	30g	8.7
Pecans	handful	30g	3.6
Flaxseeds / linseeds ⁴	1 tbsp	10g	2.6
Sunflower seeds	1 tbsp	10g	5.3
Chia seeds ⁴	1 tbsp	7g	3.9

Animal protein comparisons

140g mackerel = 8.4mcg selenium

70g serving of turkey = 11.9 - 13.3mcg selenium

The selenium content of foods can vary significantly according to the content of the soil, farming practice, fish species & season.



References

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 18 years and 19+ years [Internet]. 2016 [cited Aug 2018]. Available from: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_da ta/file/618167/government_dietary_recommendations.pdf
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