



Seafood and your health

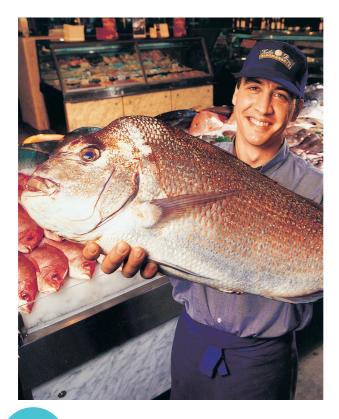
CANCER

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Seafood and your health

Evidence shows that eating a balanced diet high in seafood will reduce your risk of some chronic conditions, or help you manage your symptoms.

This booklet will help guide your food choices and includes a 14 day meal plan specifically designed for people at high risk of developing cancers that have been linked to diet.

How can seafood help prevent cancer?

Including seafood in a balanced diet can improve and maintain your health. Research suggests that adequate levels of physical activity and a balanced, healthy diet have a significant preventative effect on the development of some cancers. In particular, consumption of oily fish has been linked with a reduced risk of prostate, breast, colon, oesophageal and lung cancers. When prepared in a healthy manner, fish is a valuable part of a healthy diet.

Selecting seafood is also a smart choice for lowering cholesterol, and the omega-3 fatty acids in oily fish can actually help to prevent coronary heart disease. In addition to omega-3, seafood contains many other nutrients beneficial to health, including: selenium; iodine; zinc; calcium and vitamin D.

It's also low in saturated fat, high in protein, and a good source of energy.

Iron	Iron is important for maintaining energy levels and a strong immune system. Mussels, oysters and tinned sardines are good sources of iron.
Iodine	lodine is important for growth and seafood is the best natural source of iodine. Oysters, mussels and scallops are good sources of iodine.
Folate	Folate aids the prevention of neural tube defects in growing babies. Oysters and mussels are sources of folate.
Vitamin B12	Vitamin B12 helps the brain to work normally. Sardines, mussels and tuna are good sources of Vitamin B12.
Vitamin D	Vitamin D is good for the immune system and strong bones and muscles. Australian salmon, Atlantic salmon and tuna are good sources of Vitamin D.
Vitamins A & E	Vitamins A & E are powerful antioxidants which help the immune system and eye health. Mussels are the richest seafood source of vitamin A. Atlantic salmon and sardines are good sources of vitamin E.
Calcium	Calcium is important for maintaining healthy teeth and bones. Australian salmon and sardines are rich sources of calcium.

How much seafood do I need to stay healthy?

Evidence suggests that we should aim to consume 600mg of omega-3s per day for men, and 500mg for women.

Some types of seafood contain higher levels of Omega-3s than others. So the number of serves of seafood you need to eat each week to maintain good health depends on the type of seafood you eat. Generally, one serve of seafood is around 150g.



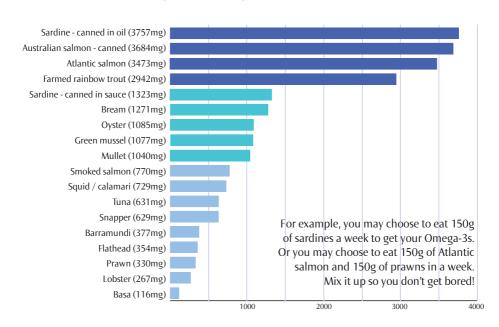


Omega-3s

Omega-3 fatty acids (Omega-3s) are essential to our health. Our bodies cannot produce these fatty acids and so we need to eat foods that contain them. The best source of omega-3s is seafood. In fact, the regular intake of Omega-3s as part of a healthy diet provides health benefit for conditions such as diabetes, heart disease, arthritis and some cancers.

How much omega-3?

Adults should aim to include 3500 - 4000mg of omega-3 in their diet each week. This table shows you how much Omega-3 is in a 150g serve of a variety of fish and seafood:



Which fish to choose?

Examples of seafood that are high, medium or low in Omega-3s.



14-day menu planner

Menu Suggestion: Week One (Choose one item for each meal)

<u>Breakfast</u> Cereal & reduced fat milk Poached eggs on toast Egg white omelette with smoked salmon

<u>Lunch</u> Tuna bean salad Canned salmon salad Tuna Caesar wraps Smoked salmon wraps Tuna and green bean sushi rolls

<u>Dinner</u> Grilled trout with honeyed vegetables Baked mullet with tasty rice noodles Garlic prawn skewers & potato salad Salmon risotto

<u>Dessert</u> Fruit (2 pieces) Low fat yoghurt (200ml tub) Small bowl of low fat ice-cream A handful of nuts



Menu Suggestion: Week Two (Choose one item for each meal)

Breakfast

Cereal & reduced fat milk Sardines on toast Boiled eggs & tomato slices on toast

Lunch

Tuna & salad roll Potato salad Coleslaw and bean salad Caesar salad (no dressing) Smoked salmon sushi rolls

Dinner

Trevally & vegetable pasta Steamed bream with spring vegetables & salsa verde Teriyaki salmon with sesame wild rice & Asian greens Mullet fish pie

Dessert

Fruit (2 pieces) Small bowl of low fat custard Low fat yoghurt (200ml tub) A handful of nuts

Recipes

Salmon, leek and potato soup (Serves 4)

Ingredients:

150g smoked salmon, chopped 2 large potatoes, chopped 2 medium leeks, sliced finely 2 spring onions, sliced finely

3 cups chicken stock

1 cup low fat milk 1 tbsp canola oil

1 tbsp fresh chives, chopped

salt and pepper bread to serve

Method:

- Heat oil in a large pan. Add leeks and cook over medium heat for 5 minutes or until soft. Add the potatoes and stock. Simmer for 20 minutes, or until the potatoes are tender. Stir in the milk and season with salt and pepper.
- 2. Allow the soup to cool slightly, then pure until smooth. Return the soup to the pan and stir through half the salmon, the spring onions and chives.
- 3. Toast the bread until golden and top with the remaining salmon. Cut the toast into fingers and serve with the soup.

Baked mullet with tasty rice noodles (Serves 2)

Ingredients:

2 mullet fillets (120g each), skin on

3 lemons, juiced

4 green onions, thinly sliced

2 small carrots 1 zucchini

cooking oil spray (canola or olive oil)

handful of snow peas 200g rice stick noodles

⅓ cup rice milk

2 tbsp chopped dill

1 clove garlic, crushed

Method:

- 1. Preheat oven to 180°C/160° fan-forced. Spray mullet fillets with oil.
- 2. Place skin-side down in a roasting pan. Drizzle with 2 tbsp lemon juice. Cover with foil and bake for 10-12 minutes or until cooked through. Sprinkle with half the onion
- 3. Meanwhile, use a vegetable peeler to cut carrot and zucchini into long ribbons.
- 4. Put noodles in a heatproof bowl and cover with boiling water for 10 minutes to soften. Drain.
- 5. Spray a large non-stick frying pan with oil. Add vegetable ribbons and snow peas and cook over medium heat, stirring, for 1-2 minutes. Add noodles, remaining lemon juice, rice milk, dill, garlic and remaining onions. Toss to combine; do not boil.
- 6. Place noodles onto plates and top with mullet to serve.

Recipes

BBQ garlic prawn skewers (Serves 2)

Ingredients:

12 prawns 1 garlic clove, minced 1 tbsp olive oil 1/2 zucchini, sliced 4 small mushrooms, sliced

8 cherry tomatoes 1/4 red capsicum

Method:

Pre-heat the BBQ. Soak prawns in garlic and olive oil while you chop vegetables. Thread prawns and vegetables onto skewers, and BBQ until prawns turn pink.

Tuna and bean salad

Ingredients:

1 small tin tuna1 red capsicum, diced1 small tin 4 bean mix1 red onion, diced5 cherry tomatoes, quarteredlow fat mayonnaise

Method:

Drain tuna and beans. Combine in a bowl and mix through diced vegetables. Add low-fat mayonnaise to taste.

Smoked salmon wraps (Serves 2 – 4)

Ingredients:

100g smoked salmon1 tbsp capers, chopped2 hard boiled eggs1 tsp fresh chives, chopped2 slices wholemeal lavash bread25g baby English spinach

2 tbsp low fat mayonnaise

Method:

- 1. Peel and mash the eggs. Add the mayonnaise, capers and chives and mix to combine.
- 2. Lay the lavash on a flat surface. Spread the egg mixture over the centre of the lavash and top with the spinach and smoked salmon.
- 3. Roll up to enclose the filling. Cut into thick slices to serve.



Recipes

Salmon Risotto

(Serves 1)

Ingredients:

1 salmon fillet (120g), chopped in bite
sized pieces
1 clove garlic, chopped

2 tsp chopped chives
2 cup frozen peas

½ cup Arborio rice 1 tbsp grated parmesan cheese (optional)

200ml chicken, fish, or 1 tbsp olive oil vegetable stock (hot) 1 tbsp olive oil 2 tbsp oliv

Method:

- 1. In a non-stick pan over a medium heat, gently cook onion and garlic together in olive oil until soft.
- 2. Add rice and peas, then hot stock gradually until absorbed. Keep stirring gently all the while until rice is creamy but still has a bite to it about 10 minutes (If you use hot stock, it keeps the rice cooking continually).
- 3. Add salmon and cook for a further 3 minutes. Stir in chives and lemon juice.
- 4. Serve in a deep bowl topped with parmesan cheese.



Fortnightly shopping list



Grocery

Cereal (rolled oats, bran flakes or

Weetbix)

Eggs

Tuna & salmon (cans)

Sardines (can)

Three bean mix (can)

Rice (Arborio/wild)

Pasta (rice noodles/penne)

Extra virgin olive oil /canola oil

Mayonnaise, low fat

Soy sauce

Eggs

Dried apricots

Mixed nuts

Dairy

Milk, reduced fat

Rice milk

Cheese & cottage cheese, reduced

Yoghurt, low fat Custard, low fat

Crème fraiche

Parmesan cheese

Seafood

Trout

Bream

Mullet

Trevally

Prawns

Smoked salmon

Fruit and vegetables

Apples, pears

Oranges, mandarins

Bananas

Lemons

Tomatoes/cherry tomatoes

Carrots

Pumpkin

Mushrooms

Baby spinach

Salad leaves/rocket

Caesar salad mix/Cos lettuce

Fresh herbs-parsley, dill, chives

Garlic & ginger

Red onions/Spring onions

Celery

Potatoes

Broccoli/broccolini, cauliflower

Capsicums **7ucchini**

Asian greens

Bean sprouts

Freezer

Peas, corn

Green beans Ice-cream, low fat

Bakery

Bread (multigrain & rye)

Lavash bread, wraps

Bread rolls

Rye crisp bread & crackers





For more information on seafood and health please visit www.cessh.curtin.edu.au

For more information on cancer visit:

Cancer Council Australia www.cancer.org.au

Cancer Council WA www.cancer.wa.asn.au