



Seafood and your health

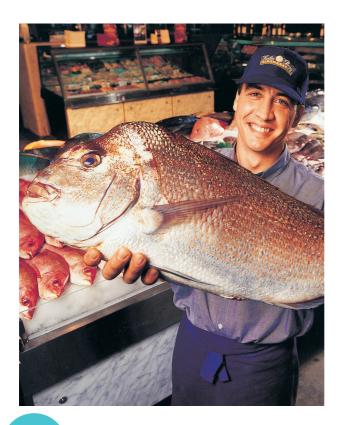
CORONARY HEART DISEASE

Contents

Seafood and your health	2
How can seafood help my heart?	3
How much seafood do I need	
to stay healthy?	3
Omega-3s	4
How much omega-3?	4
Which fish to choose?	5

Food guide

Meal planners	6—7
Recipes	8-10
Fortnightly shopping list	11
For more information	12



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 coronary heart disease.

How can seafood help my heart?

A healthy balanced diet including seafood and regular physical activity can help to reduce the risk of coronary heart disease. The benefits of eating seafood include:

- protection against cardiovascular diseases:
- protection against coronary mortality;
- lowered blood pressure;
- reduced heart rate; and
- protection for veins and arteries.

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-3 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 150grams.



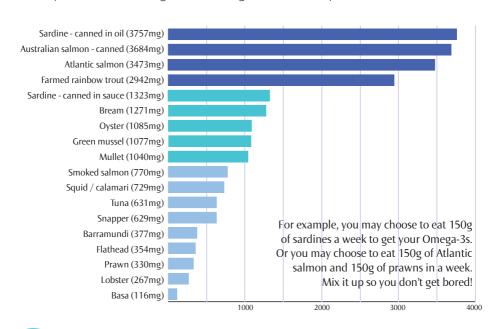


Omega-3s

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.



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 BBQ vegetables Simple fish in green curry Linguine with smoked salmon & rocket Garlic prawn skewers

<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

Grilled mullet with parmesan potatoes & vegetables Salmon pasta with fresh garden salad Steamed trout with spring vegetables & salsa verde

Dessert

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

Recipes

Salmon pasta with fresh garden salad (Serves 2)

Ingredients:

Method:

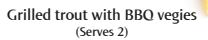
1. Add oil to frypan and cook onion until soft. Add salmon and cook.

2. Add packet of soup and the tin of tomatoes. Stir. Add stock till sauce reaches desired consistency and simmer for about 10 minutes or until fish is cooked.

3. While the sauce is simmering, cook pasta.

4. Serve with a fresh green garden salad.

*For a variation, leave out the stock and serve the sauce over rice.



Ingredients:

2 trout fillets (120g each)
1 tbsp olive oil
Juice of ½ lemon
1 large red onion, cut into 4 wedges
2 flat mushrooms, sliced thick
1 baby eggplant, halved lengthways

1 baby zucchini, halved lengthways 1 red capsicum, seeded and cut into two 1 yellow squash, halved 1 firm ripe tomato, halved olive or canola oil spray

Method:

- Combine oil and juice in a small bowl. Brush vegetables with the mixture. Heat barbecue and lightly spray with oil.
- 2. Barbecue vegetables until tender (about 10 minutes depending on thickness), turning after 5 minutes.
- 3. Once the vegetables have been turned, grill the trout fillets on the barbecue for about 2 minutes each side or until cooked through (thicker fish pieces may need a little extra time).



Recipes

BBQ garlic prawn skewers (Serves 2)

Ingredients:

12 prawns 1 garlic clove, minced 1 tbsp olive oil 1/4 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 (Serves 2)

Ingredients:

1 small tin tuna 1/4 red capsicum, diced 1 small tin 4 bean mix 1/4 red onion, diced 5 cherry tomatoes, quartered low 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 salmon 1 tbsp capers, chopped 2 hard boiled eggs 1 tsp fresh chives, chopped 2 slices wholemeal lavash bread 25g 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

Steamed rainbow trout with spring vegetables & salsa verde (Serves 2)

Ingredients:

4 x 120g pieces of trout salt and pepper Sprigs of fresh dill

1 cup fresh basil leaves sprigs of fresh rosemary

4 baby carrots

2 whole florets broccolini

2 small spring onions, trimmed

4 small new potatoes

2 baby zucchinis

handful of snow peas or green beans

Salsa Verde*:

1 cup chopped fresh parsley (or use a mix of parsley & basil)

1 clove of garlic

2-3 anchovies in oil, drained

1 tbsp drained capers

1 tbsp white wine vinegar or freshly

squeezed lemon juice

3-4 tbsp extra virgin olive oil

*Place everything in a mortar or food processor and blend to a chunky paste

Method:

- 1. Place fish pieces in the centre of aluminium foil. Sprinkle with salt and pepper and place dill sprig on top. Roll up, pierce all over with the point of a sharp knife, and set aside.
- 2. Place the basil leaves and rosemary sprigs in the bottom of a steamer and add about 4cm of water. Bring to the boil. Then arrange the vegetables in the steamer. Cover and steam for about 6 minutes.
- 3. Make the salsa verde.
- 4. Push the vegetables aside and nestle the foil-wrapped fish amongst them, then steam a further 6 minutes, or until the fish and vegetables are tender.

5. Unwrap the fish, serve surrounded by the steamed vegetables, and drizzle with salsa verde.



Fortnightly shopping list



Grocery

Cereal (rolled oats, bran flakes or

Weetbix)

Eggs

Tuna & salmon (cans)

Sardines (can)

Three bean mix (can)

Rice (brown & jasmine)

Pasta (linguine & penne)

Extra virgin olive oil /Canola oil

Mayonnaise, low fat Lite coconut milk (can)

Curry paste

Dried apricots

Mixed nuts

Dairy

Milk, reduced fat Cheese & cottage cheese,

reduced fat

Parmesan cheese

Yoghurt, low fat

Custard, low fat Crème fraiche

Seafood

Mullet

Bream

Trout

Salmon

Prawns

Smoked salmon

Fruit and vegetables

Apples, pears

Oranges, mandarins, lemons

Bananas

Tomatoes/cherry tomatoes

Carrots

Pumpkin, squash

Mushrooms

Baby spinach

Salad leaves/rocket

Caesar salad mix/Cos lettuce

Fresh herbs-parsley, basil, chives

Garlic & ginger

Red onions/Spring onions

Leeks

Potatoes

Zucchini

Broccoli/broccolini, cauliflower

Capsicums

Asian greens

Snow peas

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 CHD visit:

Heart Foundation www.heartfoundation.org.au

National Health and Medical Research Council www.nhmrc.gov.au