



What should I eat while I am neutropenic or my immune system is weakened?

The risk of food poisoning is increased when your immune system is weakened. This can occur when undergoing chemotherapy if neutrophils become low. Neutrophils are a type of white blood cell that helps to protect your body from bacterial infections.

Food safety is very important to reduce your risk of infection. You may be advised to follow a low microbial diet, which can help to protect you from bacteria and other harmful organisms found in some food and drinks.

Food safety

Keeping food safe is very important, especially when your immune system is weakened. Ensure foods are carefully prepared, handled, transported and stored to prevent bacterial growth and help keep your food as safe as possible.

Food preparation:

- Wash and dry your hands well before handling and eating food.
- Wash all fruit and vegetables well under running water, and avoid damaged or blemished fruit and vegetables. For information on safe water to use, please see 'Drinks' section over the page.
- Avoid cross contamination between cooked and raw foods, especially meat, poultry, seafood, and eggs. Use separate chopping boards and utensils for cooked and raw foods, and wash them thoroughly with hot soapy water after use.
- Cook foods to safe temperatures make sure that all meat, poultry, seafood and eggs are cooked through.

Food storage:

- Put leftovers in the fridge as soon as possible, and use within 24 hours.
- Avoid eating food that should be refrigerated if it has been out of the fridge for two hours or more.
- Food brought into hospital to eat later must be stored in a container, labeled with the
 patient's name and the date the food was made. Labels can be obtained from the ward
 clerk. If the food requires refrigeration, place it in the ward fridge as soon as possible.
- Discard the food when it is past its 'use by' or 'best before' date.

INFORMATION





Cooling and reheating food safely:

- **Keep cold food cold** (below 5°C) during storage and transportation in the fridge or on ice in an Esky®.
- If you are transporting hot food, it **should be kept hot** (above 60°C) in a thermos or Esky[®].
- Re-heating and refrigeration facilities may be available on the ward check with the ward nurse before bringing in food.
- To reheat food transported cold, bring to **steaming hot** (greater than 75°C) just prior to eating.
- Make sure there are no cold sections in the food after reheating has occurred.
- Follow manufacturer's instructions when reheating purchased prepared meals or food.
- Never re-heat food more than once.
- Defrost frozen food in the fridge or microwave, rather than at room temperature.
- Do not refreeze food that has been defrosted.





Choosing appropriate foods

Choose foods listed under the 'safer options' column.

	Safer option	High risk foods to avoid
Breads and	Cooked rice (serve immediately),	Reheated cooked rice
cereals	cooked pasta and other grains	Raw (not cooked or baked) grain
	Cereals, cooked or ready to eat	products e.g. untoasted muesli, raw
	Breads, rolls, muffins, bagels,	oats
	pancakes, waffles, crackers, biscuits	 Unrefrigerated baked goods with
	 Potato chips, corn chips, pretzels, 	cream or custard
	popcorn and other snack foods	Raw cake or cookie dough
Fruit and	Well washed, fresh and unblemished	Unwashed or blemished fresh fruit,
vegetables	fruit and vegetables	vegetables, herbs
	Cooked fruit and vegetables (from	Pre cut fresh fruit
	frozen, canned or fresh)	Readymade salads from deli/ self
	Dried and frozen fruit and vegetables	serve/ salad bars
		Raw vegetable sprouts (alfalfa or
		bean)
Meat, fish,	All well cooked meat, fish and poultry	Raw/ undercooked meat, fish, poultry,
poultry, and	Canned meat, fish, and shellfish	tofu, eggs, egg substitutes
alternatives	Cooked tofu	Pate/ liverwurst or fish paste
	Cooked eggs (firm white and yolk)	Tempeh and miso products
	Canned or cooked legumes (peas,	Ready to eat seafood e.g. oysters,
	beans, lentils)	prawns, sashimi, smoked mussels
	Deli meats reheated until steaming hot	Raw, pickled, cold smoked fish
	Roasted nuts with shells removed	Cold deli meats e.g. ham, chicken roll,
		roast beef
		Raw nuts, nuts in their shells
Dairy	Pasteurised, UHT or powdered milk	Unpasteurised (raw) milk, cheese and
	(dairy, soy, and alternatives)	yoghurt
	Yoghurt from pasteurized milk	Soft/ semi soft or surface ripened
	Processed hard cheese e.g. cheddar	cheeses e.g. brie, camembert, blue
	Cottage cheese, cream cheese	vein, feta, ricotta
	Ice cream, frozen yoghurt, ice blocks	Soft serve ice cream, smoothies and
	Custards and dairy desserts	thick shakes

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	Safer option	High risk foods to avoid
Fats, oils, and	Refrigerated butter/ margarine	Fresh salad dressings containing
condiments	• Oil	aged cheese
	Shelf stable mayonnaise and salad	Mayonnaise/ aioli containing raw egg
	dressings	Raw honey/ honey containing comb
	Cooked gravy and sauces	Homemade jam
	Shelf stable jam and nut butters (e.g.	
	peanut, almond)	
	Mustard, BBQ, tomato and soy	
	sauces	
Take away	Foods freshly cooked/ cooked to	Food kept hot and not freshly cooked,
and	order and served steaming hot	e.g. food in pie warmers, hot boxes,
convenience	Microwave meals should be heated in	buffets, bain maries
meals	accordance with the manufacturer's	Salads, sandwiches, sushi
	directions	
Drinks	Tap water- boiled or filtered	Water from water coolers and
	Carbonated water	fountains, bottled still mineral water
	Commercially bottled distilled, spring	(these have more impurities and
	and natural waters	bacteria)
	Soft drinks	 Drinks from self-serve soft drink or
	Pasteurised fruit and/ or vegetable	slushy machines
	juice	 Commercial freshly squeezed fruit or
	Packaged tea/ coffee	vegetable juices
	Powdered drinks e.g. skim milk	 Probiotic drinks, powders, or
	powder, Ovaltine®, Milo®	capsules
	Liquid and powdered nutritional	Alcohol should only be consumed
	supplements e.g. Sustagen®, Ensure®,	with medical team approval
	Fortisip [®] , Resource [®]	

For more information, please contact your dietitian:

Dietitian: Phone: 6244 2567 Date:

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