

Children's Nutrition

Contributing to the health of younger Australians





Why we love dairy

Fonterra provides a range of dairy foods that can all play a role in a healthy, balanced diet for Australian children. Dairy is considered a "good for you" food and is one of the five food groups recommended by the Australian Dietary Guidelines. (1) These guidelines are designed to promote health and wellbeing, and help Australians of all ages to eat well and help reduce the risk of diet-related and chronic illness.

The five food group dairy products includes milk, cheese and yoghurt, and provide a valuable source of dairy goodness. Milk contains at least ten essential nutrients, including protein, carbohydrate, vitamins (A, B12 and riboflavin) and minerals (calcium, phosphorus, magnesium, potassium and zinc).

Bone health

Dairy foods are possibly best known for calcium and the role it plays in building strong bones. Along with the rest of their body, children's bones grow rapidly. A calcium-rich diet during childhood helps maximise peak bone mass and helps reduce the risk of osteoporosis and fractures in later life.

Dental health

Despite being largely preventable, tooth decay is still a very common health problem in Australian children. In addition to good oral hygiene (regular brushing), balanced nutrition and healthy eating habits play an important role in preventing dental disease. Dairy foods have a specific role to play in dental health as they contain a unique combination of special anti-decay nutrients such as calcium, phosphorus and the milk protein, casein.

Nutrition and children

Fonterra supports the WHO Position that breast milk is the best source of nutrition for a baby, providing the right nutrients for it to develop and grow. (2) When infants are not breastfed, infant formula from cow's milk is the recommended alternative to breast milk. (3)

Around the age of six months, an infant's need for energy and nutrients starts to exceed what is provided by breast milk, and complementary foods are necessary to meet those needs. Infants under the age of 12 months should not be given cow's milk as their main milk drink, because it cannot be digested as easily as they digest breast milk or infant formula. However, cow's milk can be served in small quantities on cereal or as part of custards with no added sugars. (3)

Children under two years of age have relatively high energy requirements and are growing rapidly, so whole fat milks, yoghurts and cheeses are recommended for them.

In this booklet, the content focuses on children over two years of age. It is encouraged that children over two years enjoy a wide variety of nutritious foods every day to provide them with a greater range of vitamins and minerals. The best way to do this is to select food from the five food groups outlined in the Australian Guide to Healthy Eating. (1)

The five food groups



Vegetables and legumes/beans



Fruits



Grain (cereal) foods, mostly wholegrain and/or high cereal fibre varieties



Lean meats and poultry, fish, eggs, tofu, nuts and seeds and legumes/ beans



Milk, yoghurt, cheese and/or alternatives, mostly reduced fat

Benefits of dairy for children

Dairy foods are particularly important for growing children and adolescents.

How much dairy is recommended?

As children grow, their dairy requirements grow too. Dairy is the second most under consumed of the five food groups, after vegetables - with only 20% of children meeting their daily dairy serves. (4)

From the age of four, most Australian children need to increase their intake of foods from the dairy food group to meet Australian dietary recommendations. Childhood and adolescence are times of rapid growth and a critical period for building healthy bones. It is essential to eat enough calcium-rich foods and do regular physical activity during the first twenty years of life to help achieve a healthy maximum bone density.

The table below shows how many serves of dairy foods children need each day:

Recommended Serves of Dairy (5) Boys Girls 2-3 years 1½ serves 1½ serves 4-8 years 2 serves 1½ serves 9-11 years 2½ serves 3 serves 12-18 years 3½ serves 3½ serves

What is a serve?

1 cup (250 mL) fresh, UHT (long life), reconstituted powdered milk or buttermilk 2 slices (40 g) of hard cheese, such as cheddar

½ cup (120 g) ricotta cheese

¾ cup (200 g) yoghurt





Dairy and body weight status in children

Overweight and obesity affects 25% of Australian children and adolescents (aged 2-17) and is associated with poorer health and wellbeing and higher health-care costs. Some groups of Australian children and adolescents are more likely to be overweight or obese, such as Indigenous children and children living in disadvantaged areas. Many factors contribute to the development of overweight and obesity, including environmental influences and individual behaviours. (5)

Research shows sufficient intake of dairy foods can help maintain a healthy weight when eaten as part of a healthy, balanced diet. ⁽⁶⁾ In a recent systematic review, Lu et al. ⁽⁷⁾ found that dairy foods (including cheese) were associated with reduced risk of children being overweight or obese. When it comes to the type of dairy foods, research shows the consumption of any variety of the five food group dairy foods have no harmful effect on weight status in children and adults. ⁽¹⁾ For example, whole fat milk has been shown to have no negative effects on body weight and long-term health. ⁽⁸⁾

Physical activity and children

Being physically active is important for healthy, growing kids. Physical activity helps kids build strong bones and muscles, maintain a healthy weight, improve balance and develop skills, and contributes to a happy state of mind and positive self-esteem. Whether your child is physically active through play or participates in organised sport, what they eat and drink can help them be their best and enjoy their exercise. The right nutrition and hydration can increase their energy levels during exercise, and help tired bodies recover after sport.

For athletes and active Australians, dairy foods from the five food group like milk, yoghurt and cheese offer extra benefits. Their unique combination of nutrients means they can be used as targeted sports foods to meet specific nutrition goals. Research has found kids rehydrate better when they drink milk after exercise compared to water, and that milk is just as good as a sports drink for rehydration.⁽⁵⁾ In addition to replacing water and electrolyte losses, milk is a good source of calcium and magnesium which are other essential minerals lost during exercise. Milk and flavoured milk contain carbohydrates to help kids refuel and the added benefit of high-quality proteins (whey and casein) which play an important role in muscle growth and repair. ⁽¹⁰⁾

Encouraginghealthy behaviours

School is a time when children are exposed to many influences outside of the family. Their social life increases, and peers can play a large part in forming attitudes towards foods. Children become more aware of food advertising and trends in the media and while shopping. At school, the canteen offers the opportunity for children to make their own food selections and food and nutrition is discussed by teachers as part of the school curriculum.

Sitting down as a family to eat is a great way to lead by example and makes food social and fun too. Children love being involved and can help with the shopping and food preparation. Growing their own food such as fruit and vegetables also teaches them about how food gets to our table and is a good way to encourage them to eat from these food groups.

Below are some ideas to help include more dairy in your child's daily diet.

- A steaming milky porridge is a great winter warmer, or in the summer months pour some cold milk over cereal
- Grilled cheese and baked beans on toast is always a favourite
- Pour yoghurt over seasonal fruit
- Sandwiches / wraps with cheese and choice of salad

School canteen criteria

Much of the current work on state and territory-based strategies to get school canteens healthy is informed by the Australian Dietary Guidelines. (1) Whilst there are different approaches to communicating the healthy canteen message from state to state, the healthy eating message remains the same. Therefore, while some states such as Western Australia and Queensland use a "traffic light system", others such as Victoria and New South Wales use the concepts of "Everyday Food" and "Occasional Food". In all cases, the aim is to get children and adolescents eating well and in line with the Australian Dietary Guidelines.

The school canteen guidelines in each state applies to all school food services and are recommended by state government and independent schools. The following table shows the eligibility of Fonterra products state by state.

Note. The school canteen criteria for dairy foods have been designed to support the Australian Dietary Guidelines which include dairy foods from the five food groups. For example, dairy products based on reduced fat milks are assigned a higher rating (i.e. more eligible) than whole fat milk counterparts and are classed as 'everyday' healthy options.



School Canteens Australia - State Sale Eligibility

	airy ood	Key nutrients	Ways to incorporate on the menu	Fonterra products				elig		
Plain Milk fluid		Energy, Calcium, Fat, Carbohydrate, Protein	Offer as a drink, on-site made smoothies, used in on-site baking	Anchor UHT Milk Blue Full Cream	ŀ	1	*		•	
	n Milk,			Anchor UHT Skim Milk			**			
	luid			Anchor UHT Milk Barista			*			
				Anchor UHT Milk Portions			*			
		Energy, Calcium, Fat, Carbohydrate, Protein	Use to formulate milk beverages, used in on-site baking	Diploma Instant Full Cream Milk Powder						
				Diploma Instant Skim Milk Powder						
	n Milk, vdered			Diploma Whole Milk Powder Instant						
				Fonterra Instant Skim Milk Powder						
				Fonterra Instant Whole Milk Powder 26% Fat						
				Bega Stringers						
				Bega Bar-B-Cubes						
				Mainland On The Go Cracked Pepper Cream Cheese 50 g						
	Cheese, snacking	Energy Protein Calcium (hard cheese) Fat	Snack products; either sold with crackers or in snack-portions alone	Mainland On The Go Tasty Cheese with Water Crackers 50 g						
				Mainland On The Go Light Tasty Cheese with Water Crackers 50 g						
				Mainland On The Go Special Reserve Extra Tasty Cheese with Water Crackers Pack 50 g						
				Mainland On The Go Colby Cheese with Water Crackers 50 g						
Ch				Mainland On The Go Edam Cheese with Water Crackers 50 g						
				Mainland On The Go Light Tasty Cheese with Water Crackers 30 g						
				Mainland On The Go Tasty/Extra Tasty Cheese with Water Crackers 30 g						
				Mainland Munchables Tasty Cheese & Biscuits						
				Bega Tasty Portions					П	П
				Mainland Edam Portions						
				Bega Light Tasty Portions						
				Bega Strong and Bitey Vintage Cheddar Portions						
				Bega Strong and Bitey Vintage Cheddar Portions						

Dairy	Key nutrients	Ways to incorporate	Fonterra products	State sale eligibility					ty
food	ney natricits	on the menu	Tonterra products	MSW	di	SA	WA.	w.	TAS
			Mainland On The Go Lunch Caramelised Onion Relish	Ľ					
			Mainland On The Go Lunch Balsamic Beetroot						
			Mainland On The Go Lunch Jalapeno Relish						
			Mainland On The Go Lunch Tomato & Cracked Pepper Relish						
			Anchor Processed Burger Slices						
			Anchor Cream Cheese						
			Bega Processed Sandwich Slices						
			Bega Super Slices Processed Cheese						
		Energy Protein Calcium hard cheese) Fat Used in on-site cooking, such as savoury muffins, vegetable bakes, pasta Mainland Pro Mainland Eg Mainland Tasty Bl Mainland Lig Mainland Gouda/E	Bega Super Slim Processed Cheese						
	Protein Calcium (hard cheese)		Bega Strong and Bitey Vintage Cheddar Slices/Block						
			Bega So Light Tasty 25% Reduced Fat Slices						
			Bega So Light Vintage 25% Reduced Fat Slices						
Cheese,			Bega So Light Tasty 50% Reduced Fat Slices						
non- snacking			Bega Tasty Block/Slices/Grated						
			Fonterra Egmont Bulk						
			Fonterra New Zealand Mild Cheddar/Tasty Cheddar Bulk						
			Mainland Processed Easy Peel Slices						
			Mainland Swiss Slices/Block						
			Mainland Swiss Slices/Block						
			Mainland Egmont Shredded/Slices						
			Mainland Tasty Block/Shredded/Slices/Grated						
			Mainland Edam Block						
			Mainland Light Tasty Grated/Slices						
			Mainland Mozzarella Shredded/Grated						
			Mainland Gouda/Epicure Gold/Extra Tasty/Mild/ Vintage Block						
			Mainland Gouda/Epicure Gold/Extra Tasty/Mild/ Vintage Block						

School Canteens Australia - State Sale Eligibility

Dairy food	Key nutrients	Ways to incorporate	Fonterra products	State sale eligibility						
		on the menu	Mainland Special Reserve Creamy Feta Block/Cubes	Mar	O.	SA	MA	THE THE	TAN	
	Energy Protein Calcium (hard cheese) Fat	Add to sandwiches, salads Used in on-site cooking, such as savoury muffins, vegetable bakes, pasta	Mainland Special Reserve Blue Vein Wedge	П						
			Perfect Italiano Parmesan Block/Grated/Shaved/ Shredded/Extra sharp				i			
			Perfect Italiano Pizza Plus Shredded	Ī			Ī			
			Perfect Italiano Perfect Bakes Cheese Blend Shredded	П			П			
			Perfect Italiano Ricotta Original Cheese	П					П	
Cheese, non-			Perfect Italiano Ricotta Light							
snacking			Perfect Italiano Traditional Mozzarella Block/ Shredded							
			Perfect Italiano Ultra Mozzarella Shredded							
			NZMP Bulk Cheese Egmont							
			NZMP Bulk Cheese Tasty/Mild Tasty Cheddar							
			NZMP Bulk Cheese Parmesan							
			NZMP Bulk Cheese Mozzarella							
	Energy Fat	Not to be sold	Anchor Culinary Cream							
Cream			Anchor Culinary Cream Light Extra Yield							
			Anchor UHT Whipping Cream							
		Not to be sold	Western Star Salted Butter				Ш			
			Western Star Butter Salt Reduced				Ш			
			Western Star Unsalted Butter							
			Western Star Cultured Unsalted Butter				Ш			
Butter and Spreads	Energy Fat		Anchor Butter Salted				N/A			
- F	Tat		Anchor Butter Unsalted							
			Anchor Buttersheets Unsalted							
			Western Star Easy Spread							
			Western Star Spreadable Blend Original							

Dairy food	Key nutrients	Ways to incorporate on the menu	Fonterra products		e sale		
		Reduced Western Star Spreadable Blend Light n' Western Star Spreadable Blend Supers Girgar Unsalted Butter Girgar Butter Unsalted Cultured Western Star Butter Blend Easy Spreadable Blend Supers Western Star Chef's Choice Butter Unsalted Allowrie Butter Salted Allowrie Butter Unsalted	Western Star Spreadable Blend Original Salt Reduced	, ,	ľ	·	
	Energy Fat		Western Star Spreadable Blend Light n' Soft				
			Western Star Spreadable Blend Supersoft				
			Girgar Unsalted Butter				
			Girgar Butter Unsalted Cultured				
			Western Star Butter Blend Easy Spread				
Butter and			Western Star Chef's Choice Butter Unsalted		П	A/N	
Spreads			Allowrie Butter Salted				
			Allowrie Butter Unsalted				
			Allowrie Butter Unsalted Cultured				
			Mainland Buttersoft Salted				
			Mainland Buttersoft Salt Reduced	П	П		
			Fonterra Butter Unsalted		П		
			Fonterra Butter Unsalted				

- 'Everyday' healthy option

- 'Occassional' product

- Should be avoided

*Whole fat must be ≤600 mL to be ambe

**Reduced fat must be ≤375 mL primary school and ≤600 mL secondary school to be green















Contact Information

anchorfp.com.au | csaustralia@fonterra.com | 1300 738 484