

FUELLING ACTIVE KIDS



Junior Soccer Player

A GUIDE FOR PARENTS, COACHES AND TEAM MANAGERS

JUNIOR SOCCER PLAYER



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“Encourage junior Soccer players to eat and drink well to feel great and perform at their best”

This booklet offers guidance for meeting the nutritional needs of children aged 5 -11 who play Soccer. Whilst most of the information in this booklet is also appropriate for older children, more specific nutrition information for adolescents is available at www.sportsdietitians.com.au

Parents and coaches frequently ask, “What are the best foods and drinks for kids to have to boost their Soccer performance?” Just as often, in conversations between parents at sporting events, quite different opinions are expressed about what is good and bad practice in feeding and hydrating the Socceroos and Matildas of the future.

Whilst the nutrition needs of children are individual and vary throughout their development, there are some important guidelines that are applicable to all junior Soccer players.

The foods and fluids consumed by Soccer players of any age can have a big impact on their ability to train, play and recovery well. Food provides fuel to exercising muscles and nutrients for growth, recovery, cognition (ability to think well) and the immune system. It makes sense then that choosing foods and fluids that provide the optimal amounts of nutrients, can help ensure a fit, strong and healthy young athlete.

Sports Dietitians know how challenging it can be to juggle the demands of family, work and sport, and have aimed to provide information that not only helps optimise the performance of the junior Soccer player, but is easily incorporated into the overall active family’s lifestyle.

Establishing high performance eating habits early in life will help set junior athletes up for a long, healthy life in their chosen sports. It is also an approach to eating that will benefit the whole family.



This booklet provides information based on recent scientific research, and has been extensively reviewed by accredited sports dietitians working with Australian sports people and athletes.

Thanks to the following Accredited Sports Dietitians Ruth Logan, Lisa Middleton, Lorna Garden, Gary Slater, Kellie Hogan, Christine Dziedzic, Kate Pumpa and Sophy Foreman for their professional review of this publication.

GETTING READY...

It is important for the junior Soccer player to eat well every day – not just on game days or before a Soccer game. The foods they eat on a day-to-day basis help develop the ability to store fuel in their muscles, maximise their growth and development and prepare them for performing at their best on match day.

Active children need constant refuelling and cooling. Their nutrition needs are particularly important as they must meet requirements for not only their physical activity, but also their growth and development and overall health and wellbeing.

The junior Soccer player will play better, for longer and recover quicker from training and competition when they are well fuelled. A player who is not giving adequate consideration to their diet when choosing meals and snacks, may become tired, irritable and lethargic, and may even struggle to maintain interest and enjoyment in sport.



Carbohydrate for Energy

Ensure children have frequent opportunities to eat foods rich in carbohydrate such as bread and other cereal products, pasta, rice, fruit, starchy vegetables and calcium rich dairy foods.

Carbohydrate rich energy foods (see below), need to be eaten at frequent intervals each day as they provide much of the fuel needed to keep kids active and happy. Carbohydrates keep blood sugar levels consistent, helping concentration during the day and helping keep children alert at school. Because the body can only store a limited amount of carbohydrate, it is important to have nutritious, carbohydrate rich foods at each meal and snack to top up fuel supplies. An increased intake around training times can help maximise the muscle's uptake of this fuel, and requirements will vary as training loads change over the season. Heavier training loads should be balanced with higher carbohydrate intakes.

The majority of carbohydrate should come from nutrient rich foods such as grains, wholegrain cereals and breads, legumes, fruit, vegetables and dairy products as these provide the fuel for exercise but also key nutrients for overall health.



Carbohydrate rich fuel foods

Cereals and Grains

Wholegrain breakfast cereals: rolled oats and other grains (barley, quinoa), served hot or cold

Bread & bread rolls: pita, Turkish and mountain breads, wraps, tortillas, tacos, lavash, crackers and crisp breads, rice cakes, corn thins, crumpets, fruit bread

Rice, pasta, noodles, couscous, quinoa

Dairy & alternatives

Plain and flavoured milks, yoghurt, custard, milk desserts

Non-dairy alternatives such as calcium fortified soy yoghurt and soy milk

Fruit

All fresh, canned or dried fruits, fruit and grain bars, fruit straps, 100% fruit juices

Vegetables & legumes (pulses)

Potato, sweet corn, sweet potato, baked beans, lentils, chickpeas, soy beans, bean mixes

Extras - carbohydrate snacks

Low fat fruit and grain bars, fruit buns, fruit loaf, fruit scones, pikelets, pancakes, frozen yoghurt, smoothies, fruit muffins, banana/ carrot cake, oat biscuits

Many kids love sweet foods, however an excessive intake of high sugar foods can replace more nutritious carbohydrate foods that growing athletes need. After games and long, hard training sessions is the preferred time to offer an occasional small serve of a "sweet treat" to top up energy levels. These may include home prepared muffins and slices or an ice-cream or ice block in the warmer weather to cool and refuel.

Protein for growth & development

As well as eating and enjoying a wide variety of carbohydrate rich foods, it is important to make sure that junior Soccer players have enough protein in their diet to optimise growth and development.

There is probably no other nutrient that has captured the attention of athletes more than protein. While junior Soccer players have protein needs higher than their sedentary counterparts, most will easily meet their needs each day through their normal eating habits. Junior Soccer players should focus their attention on a wider distribution of protein over the day, instead of large serves at 1-2 meals. Including a small serve of protein rich foods for growth and repair (see examples below),

and snacks and meals throughout the day will provide essential amino acids to growing muscles.

Having a small amount of protein after strenuous exercise has been shown to be beneficial in adults, for faster muscle recovery. Whilst there has been little research done in this area on active children, it makes sense to include foods rich in both protein and carbohydrate as recovery snacks after heavy training sessions.

Growth foods

Meat, seafood and eggs

Lean beef, veal, lamb, pork, turkey, chicken
Fish - fresh, canned or frozen; other seafood
Eggs

Dairy & alternatives

Plain and flavoured milks, yoghurt, custard, milk desserts

Non-dairy alternatives such as calcium fortified soy yoghurt and soy milk

Legumes, nuts and seeds*

Baked beans, meat analogues (vegetarian foods), tofu, seed beans, nuts e.g almonds, pecans, cashews, peanuts and peanut butter, seeds e.g. pumpkin, sunflower



*Vegetarian junior athletes should be encouraged to see an Accredited Sports Dietitian to ensure their nutritional needs are met.

Some facts about fats

All children require a small amount of fat (3 - 4 teaspoons) in their daily food intake for normal growth and development. It is recommended that all Australians, including children, limit their intake of saturated fats (mainly from animal fats). For proper growth and development however, children, should include healthier unsaturated fats found in foods like fish, nuts, seeds and avocados.

Children under the age of two should be eating full cream dairy foods to meet their nutritional and energy needs. However, children over two years of age can be offered reduced fat dairy products such as low fat milk, cheese and yoghurt. Some active, growing children, who find it challenging to eat enough food each day, may benefit from having full cream dairy products to help meet high energy needs.



Staying hydrated

Managing fluid intake is just as important as food intake for the health and performance of junior Soccer players. Children can overheat and dehydrate quickly as they are not able to regulate their body temperature as well as adults.

Getting young people into the habit of drinking fluid regularly can help them develop good skills in staying hydrated throughout their sporting career. Individual fluid needs vary significantly and are largely dependent on the type and amount of exercise (including both structured activities like Soccer training but also general play), and environmental conditions.

Hot and humid conditions can lead to increased fluid losses through sweat, which in turn increases the amount of fluid a junior player needs to drink. Children are generally not very motivated to follow good hydration strategies, therefore it becomes the responsibility of parents, coaches and managers to help them stay well hydrated during training and games. Young athletes may need to be reminded often to drink, particularly when the weather is warm, or if they have a history of not taking in enough fluid before, during or after exercise. During the winter months, you might expect their fluid losses to lower but it is important to remind junior soccer players to drink, as they often won't feel as thirsty as they may on a hot, dry day. School aged children should be reminded to take adequate water with them each day, to ensure they are well hydrated for afternoon training sessions or games.

Individual fluid needs

- Fluid loss will vary from one day to the next depending on many factors. Be prepared to compensate for extra losses if your child is sweating more than usual (due to a greater volume or intensity of exercise, or environmental conditions, or if they are naturally a heavy sweater).
- A quick guide to hydration is the colour of your child's urine. If their urine is a darker

colour than usual, it is a fair indicator of dehydration – extra fluids should be taken. (NOTE if a child is taking a recommended vitamin/mineral supplement, this can sometimes alter urine colour)

- Even if children are well hydrated they can still become overheated. This is most likely when the weather is hot and humid and they have been engaging in more intense and/or longer duration (usually > 1h) exercise, or games in the early part of the season when the weather is hotter. Use of substitution in Soccer games is a great way to prevent overheating as is keeping children cool when resting between substitutions. In extreme weather conditions games may need to be cancelled, reduced in duration, include extra breaks in play or moved to a cooler time of day.

Can you drink too much?

It is possible to drink too much fluid and develop a condition called hyponatremia. However this condition is generally seen in sports where excessive fluid is consumed over several hours (e.g. ultra-endurance events), and is extremely rare in Soccer and junior Soccer in particular. The best guide to whether a person has consumed excessive fluid is to monitor their body weight with significant weight gain over a game/carnival possibly indicating excessive fluid consumption. If your child is continually going to the toilet and has clear urine they may need to reduce fluid intake, particularly close to bedtime to avoid interrupted sleep.

Hydration Guidelines

Before

- It is important that active children start drinking well before they get to training or their match. Preparation needs to begin in the hours prior, by sipping 'mouthfuls often' throughout the day at school and home.
- Junior Soccer players should be encouraged to drink fluid with meals and snacks on training and game days. This takes advantage of the electrolytes in food to ensure the water is better retained by the body, promoting optimal hydration.
- The volume of fluid a child needs to drink is very individual. As a rough guide, children should drink periodically until not thirsty and their urine output is regular and light straw in colour.

During

- Children should always have their own water bottle handy to sip from, and drink breaks should be scheduled during training and matches to allow for regular access to fluid. Most children will maintain their hydration if allowed to drink according to their thirst.
- Practicing regular fluid intake during training assists children to feel more comfortable drinking during competition.
- Remind junior players not to wait until they are very thirsty before they start to drink. By then they may already be starting to dehydrate and experiencing a decline in performance.
- Fluids should be kept cool to encourage greater intake and help the body stay cooler. In summer, aim to have drink bottles in a cooler bag, or try freezing a bottle overnight as it will thaw quickly on a hot day. It is a good idea for coaches to have a cooler bag available for the team at training and matches. All the drink bottles kept in one place can make for easier

drinks breaks.

- A big concern for some athletes is getting a 'stitch'. Sports scientists are still unclear as to why this happens but it is thought that it may be due to the stomach wall becoming distended from food or fluid consumption immediately before or during exercise and this irritating nerves and muscles in the abdominal area during exercise. Current advice is to drink small amounts frequently, in advance of competition time, and avoid highly concentrated sugary or carbonated fluids pre event, to reduce distension of the stomach. Dehydration may also increase the risk of experiencing a stitch.
- Remind junior Soccer players that professional Soccer players drink frequently during training and games to perform at their best.

After

- After exercise, encourage children to rest and have a larger drink, followed by fluid intake as desired during the hours post-exercise, along with appropriate food intake.
- Suitable fluids for recovery include water, plain and flavoured milk, liquid meal supplements or soup to provide fluid with electrolytes, carbohydrate and protein.
- Discourage junior players from having carbonated drinks (including soft drink) before, during and immediately after exercise as they can upset the stomach and reduce their desire to drink. Bloating can be a problem resulting in them feeling too full before they drink a sufficient volume.
- It is not suitable for active children to be drinking caffeinated drinks before, during or after sport.

Sodium

Sodium is found in many of the foods we eat and is the main electrolyte added to sports drinks. It contributes to hydration in a number of ways:

- Stimulates thirst, promoting increased fluid intake
- Enhances fluid absorption and retention
- Replaces sodium lost in sweat

However most children consume more than enough sodium as part of salt in foods, and when combined with adequate fluid, this is usually enough to assist with hydration.

Sports drinks

Water is the fluid of choice for most training sessions and games. There are some situations however when additional carbohydrate and electrolytes may be beneficial. These may include when physical demands are very high, or in very hot and humid conditions, and during carnivals when several games are played in close succession over a day making it more difficult to eat sufficient carbohydrate between games.

Sports drinks provide small amounts of carbohydrate and electrolytes that provide a boost to energy and performance, and may encourage greater fluid intake, and faster absorption. This makes them useful during extended training sessions or games.

They are not needed during a normal school day.

Signs of heat exposure

Know the warning signs for dehydration. If a child shows any of the following signs it is recommended that they are taken off the field and encouraged to rest in the shade and sip cool fluids. Warning signs include:

- Dizziness and light-headedness
- Muscle cramps
- Nausea and headache.

After games you will know a child has not drunk enough if any of these signs are noticed:

- Dark urine and infrequent urination
- Dry mouth and throat
- A feeling of extreme heat which remains after a cool down time.

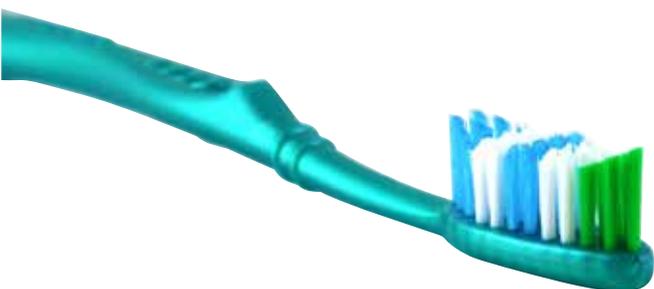


Oral Hygiene

- Harmful bacteria are readily transferred through sharing drink bottles so it is recommended that children get into the habit of taking their own bottle to training and competition. If they are required to share at any time remind them not to allow their lips to touch any part of a shared bottle, and teach them how to squirt or use a chin sipper bottle to get the water into their mouth.
- Ensure water bottles are thoroughly cleaned in soapy hot water, and if they are used over a long period of time, they should be sterilised at regular intervals.

Dental hygiene

- Remember to encourage healthy dental hygiene habits to minimise the risk of tooth decay if consuming carbohydrate rich foods or fluids.
- Rinsing the mouth with water after consuming sports drink is advisable, so encourage athletes to bring two drink bottles if having sports drink, including one with plain water.
- Dental products such as tooth mousse can help to protect teeth and foods rich in calcium and phosphate (like milk, cheese and yoghurt) can help to remineralise the tooth surface.
- Regular brushing and flossing is critical, but brushing teeth should be delayed for at least 30 minutes after consuming a sports drink or post-exercise recovery to enable the tooth surface to re-harden.



GETTING SET...

The day before the game

The day before a big sporting event requires extra effort to ensure adequate carbohydrate is eaten and fluid intake has been sufficient to ensure a good state of hydration. The focus for meals and snacks over the day should be 'fuel foods' and fluids, with a reduction in filling high fat foods during this period.

The meal eaten in the evening should have a carbohydrate base such as pasta, rice, noodles or quinoa, with a small serve of a lean protein food. Often games are on a weekend, and the pregame meal is on a Friday night when busy families are tired and pushed for time.

This meal can be kept simple and may be a good time for a family favourite pasta dish, (preferably with a non creamy sauce) or a casserole with rice or a simple stir fry with noodles. Lean burgers with wholemeal buns and salad are also a quick, simple yet nutritious choice. Remember to provide plenty of water to drink at this time, and encourage the kids to find out what healthy foods their favourite sports stars eat the night before a big game.

High performance meals

LASAGNE – include lots of pasta sheets with lean beef, pork or chicken, tomatoes, spinach and reduced fat cheese and a crunchy side salad or vegetables.

PASTA - your favourite pasta shape with tomato based sauce, vegetables and cheese (chicken, tuna or lean beef is another great addition to this dish).

MEATBALLS – lean beef with grated carrot and zucchini, tasty sauce, served with a rice or pasta.

CURRY – lean chicken or vegetarian with chickpeas, extra veggies and steamed rice.

HOMEMADE STEAK BURGERS – grill, small quick steaks and top with sauce, beetroot, and lots of salad on a multigrain roll.

Dessert and Extras

Pancakes or waffles
Creamed rice with fruit
Fruit Platter
Canned or poached fruit

Drinks

Water, mineral water
Fresh fruit and yoghurt smoothies
Milk, hot chocolate

CHICKEN WRAPS - tortillas filled with roast chicken, salad and light sour cream or a dollop of low fat natural yoghurt.

HEARTY MINISTRONE SOUP - a meal in a bowl rich with vegetables, beans and rice. Serve with a crusty bread roll.

PIZZA - use a pre prepared thick base topped with cherry tomatoes, basil, lean ham and mozzarella.

STIR-FRY - toss lean chicken or pork with plenty of vegetables in a sweet chilli and soy sauce, and serve with thick noodles or rice.



High performance snacks

- Bread, crumpets or English muffins with jam, honey or vegemite
- Fresh fruit or a snack pack of canned fruit
- Sandwich with cheese, peanut butter, honey or jam
- Vegetable pieces or crackers with low fat dip
- Breakfast cereal with milk
- Yoghurt, custard, rice pudding, creamed rice
- Fruit and grain bars
- Pita chips, pretzels or crackers
- Fruit bun or raisin toast with jam
- Corn and rice crackers, corn thins or rice cakes
- Scones, pikelets, pancakes
- Milk based smoothie with fruit
- Quick cook noodles
- Milkshakes
- Fresh Sushi rolls
- Home made popcorn (minus the salt and the butter)
- Trail mix with nuts, seeds, dried fruit
- Canned spaghetti or baked beans



On game day

The aim of breakfast on game day is to provide some carbohydrate and fluid to top up stores, after what is often 12 hours without food, and to prevent hunger during the game. For mid morning games, breakfast should be eaten around two hours before the match commences to keep your child feeling satisfied and well fuelled. But if your child gets hungry again up to one hour before starting exercise, provide a small low-fat snack to top up.

See table on the next page for nutritious pre-game meal ideas. For afternoon games, include a larger breakfast and a 'pre-game' lunch around two hours before the game begins. Evening training sessions and games can be a particular challenge as they are often scheduled over dinner time. Depending on the timing, a larger afternoon snack could provide the pre-exercise meal, or if later in the evening, a small carbohydrate rich dinner may be suitable a couple of hours beforehand (and don't forget recovery food and fluids afterwards, even if it is a late finish).

If you have to travel long distances or need to make an early start before a game, pack some breakfast-on-the-run foods including flavoured milk drinks; low fat, high fibre cereal bars; bread rolls with spread; flavoured yoghurt or creamed rice; fruit bars; fresh fruit or a plain fruit bun. Some players will prefer a low fat smoothie or pre-prepared liquid meal.

The best foods to serve pre-game are those your children are used to eating and are quick and easy to prepare and eat – this will minimise fuss and ensure maximum stomach comfort. Low fibre foods, like low fat smoothies can be a good choice if your child gets an upset tummy due to "nerves" before a game.

Otherwise foods that are rich sources of carbohydrate, yet low in fat, are best eaten at the pre-game meal. Remember to encourage your child to drink fluids at this time. The best pre-game drink is water, but small amounts of milk or juice may be okay, particularly if your child's food intake is low on game day. Your junior Soccer player should be well hydrated from the previous day's drinking, so the aim before the game is to simply top up fluid levels, according to thirst.



Pre game meal ideas

- Porridge (oats or quinoa) with apple and cinnamon
- Spaghetti on toast with a fruit smoothie
- Cereal with milk, fruit and yoghurt with a small glass of juice or piece of fresh fruit
- Toast with avocado, tomato and cheese (or a little feta), with a glass of milk
- Fruit salad with yoghurt and chopped nuts
- Scrambled egg with cheese and tomato, toast and a piece of fruit
- Peanut butter on toast, topped with sliced banana and a glass of milk
- Baked beans on toast with fruit and a glass of milk
- Fruit toast or English muffins with honey or jam and a fruit smoothie
- Pancakes with fresh fruit and yoghurt
- Crumpets with honey and a tub of yoghurt
- Creamed rice with stewed apples and cinnamon



GO! At the field

It is a good idea not to rely on the canteen at the grounds or nearest shops to supply foods and drinks over the day, as healthy choices are not always available. Be prepared by packing your own supplies of food and drinks in an esky or cooler bag.

Carbohydrate rich snacks will help boost energy levels and prevent hunger for junior athletes. The list of Energy Boosters below provides some suitable snack ideas for competition days. It's always good to encourage some food with fluids, if time permits, between games.

When time is short, nutritious drinks like fruit smoothies, liquid meal supplements and flavoured milks may be particularly valuable.

Energy boosters

- A snack pack of canned fruit with fruit yoghurt
- Bread roll with banana
- Jam or honey sandwich with a juice popper
- Rice crackers with vegetable dip
- Frozen yoghurt
- Sushi hand rolls
- Wholegrain fruit bar with a flavoured milk
- Watermelon slices
- Fruit bun with honey/jam
- A small box of sultanas
- Pikelets with jam or honey plus a snack pack canned fruit
- Flavoured milk or liquid meal tetrapak

As discussed under 'staying hydrated', in addition to having water with the pre-game meal in the lead up to the game, players should continue to sip on water according to thirst. Drinking too much fluid before a game will merely increase the potential for a stitch and making your child uncomfortable.



During the game

The priority during games is keeping junior players well hydrated. Cool fluids need to be made available to all players at frequent intervals during each game, particularly during breaks, and when players are 'subbed off'.

When players are involved tournaments which involve several games over a day, remember to encourage fluid intake during breaks between games. Aim to get kids drinking at least a 100-200mls from their drink bottle after they play, prior to the next game. Some of these athletes will be working hard on carnival days, not only in their games, but also from racing around and being generally excited. Encourage the team to rest in a quiet area where they can top up with food and fluids to keep performing at their best. Those who are not so actively involved will not require as much, so be aware of the potential for these children to overeat and over-drink.

After the game

Recovery after each day's game or training session is essential to maintain your child's fuel stores, and therefore perform at their best. This is particularly true when they are required to play over consecutive days. Recovery snacks and fluids should be:

- Started within 30 minutes of finishing exercise
- High in carbohydrate with a little protein
- Quick and easy to prepare and eat
- Available at the venue if it takes a long time to get home.

Sometimes fluids are more acceptable to children at this time, with a fruit smoothie made with milk & yoghurt being a good choice, providing generous amounts of carbohydrate for refuelling, protein for rebuilding and fluid and electrolytes for rehydrating.

Combinations of foods that provide valuable amounts of carbohydrate and protein include yoghurt with fruit, smoothies, cheese sandwich or cheese on toast, baked beans on toast with a glass of milk, cereal with milk, or fruit & grain

bars with a milk drink. If you have a long drive home after training or a game make sure that you pack a healthy recovery snack as it can be difficult to find appropriate options in transit.

Often junior Soccer players will be playing on cold, bleak winter days and recovery should include warm clothing, a warm, protected area to sit and something warm to eat and drink. Some winter-warming recovery food ideas can be found below.

- Low fat fruit yoghurt and a handful of dried fruit/nuts
- Soup with a cheese sandwich
- Sushi handrolls
- Sandwich, roll or wrap with protein filling eg. chicken, tuna, cheese or egg with salad
- Glass of milk and a piece of fruit
- Liquid meal supplement
- Small tin of tuna with dry biscuits
- Chicken and pasta salad



The night after a day of Soccer

Coping with tired, hungry junior Soccer players at the end of a long day can be challenging for any parent. The temptation to line up at a fast food outlet can be great and pressure from the children can make it even harder to resist.

Of course, takeaway foods can be enjoyed as an occasional treat but generally try to limit to the occasional rather than every weekend! If you do eat out, choose a venue where your child can have a carbohydrate rich meal such as pasta, pizza with a low fat topping, or a noodles/rice dish.

One solution is to have food already prepared in the fridge or freezer that only needs reheating while showers happen.

Being prepared with a casserole or easy pasta dish at home will save the family time and money and improve the nutritional value of the meal.

Spaghetti bolognese, risotto, burritos, baked potatoes with tuna/salmon, noodles with stir fry chicken & vegetables, quinoa & roast vegetables all make good recovery meals.



A healthy weight

Just like adults, children come in many shapes and sizes, and very often grow and develop at different rates to each other. There are always going to be some junior athletes who are prone to problems with weight (or body fat) control while in contrast, there are also lightly built junior Soccer players who struggle to eat enough food and require constant encouragement with food and fluid intake to maintain adequate energy for their sport.

Assessing weight (both over and underweight) in active children is quite complicated and it is a good idea to seek professional advice if you have concerns about your child. You can find a Sports Dietitian in your area by visiting Sports Dietitians Australia's website at www.sportsdietitians.com.au.

If your child is overweight, a healthy diet and activity plan will help

Research suggests that overweight children have a much higher chance of becoming overweight adults, so it is recommended that parents implement positive strategies early, to help overweight children develop long term healthy eating and exercise habits.

It is interesting to note that owing to the high risk of overweight adolescents becoming obese adults, the engagement of children and adolescents in physical activity and sport is now considered a fundamental goal of obesity prevention.

Management of overweight children often requires expert help from an Accredited Sports Dietitian. Rapid weight loss is never the goal for children, instead aim for a slowing of expected weight gain over time, or maintaining weight steady while height increases. Studies have shown that the best way to help children successfully change



behaviours is for the whole family to be involved.

Parents can help by reducing the child's overall energy intake and encouraging more physical activity. Choose lower fat alternatives for meals and snacks, avoid the use of fatty take away and convenience foods and replace high sugar snacks and drinks with water and more nutritious choices like fruit and yoghurt. Eating more fruit and vegetables not only helps appetite control but provides important nutrients for active bodies.

During Soccer games, overeating can be an issue for some children, particularly if they do not get a lot of game time and spend a lot of time waiting for their turn to play. A canteen stocked with high sugar/high fat foods can also prove tempting. Packing nutritious options and keeping children engaged in supporting team mates, or assisting coaches can help alleviate boredom eating.

Healthy eating is the same for overweight and normal weight active children, although the amounts consumed might need to be different. Fatty, salty snacks should be minimised for everyone and replaced by healthier snack options.

Planning and preparation helps children meet high energy demands

Equally important is managing the child who struggles to eat enough for the energy demands of sport, school, play and growing. It is important to help these children plan their food and fluid intake to maximise daily energy intake. At those times when they feel too tired or busy to eat, nutritious drinks including smoothies and milk drinks can help boost intake.

Smoothies and liquid meal supplements are particularly useful for those who can't eat before competition and also after heavy training sessions to help recovery. Eating frequently and including healthy snacks like dried fruit and nuts, yoghurt, fruit bread, and cereal is also a great idea. Some growing junior athletes can have voracious appetites and preparation is the key, packing snacks and fluids to have after school and after training sessions.

Promoting a healthy body image in active children is vital

Sport is a unique environment that places the physical body on centre stage. Increasingly in the western world, however, we are becoming more concerned with how our bodies' look rather than what they can do. Junior athletes are not exempt from this, and they (and their parents or coaches) may become concerned about their body weight, particularly during growth phases.

Children grow at different ages and stages, and can become very sensitive about their body shape and size. Coaches and parents need to be aware of their sensitivity to weight related comments and always encourage

positive discussions regarding body shape, food and healthy eating behaviours. Pressure from a young age to conform to unrealistic body 'ideals' can lead to deprivation of food intake resulting in nutritional insufficiency, poor growth and long term problems with disordered eating habits.

Parents, coaches and teachers are important role models for fostering a healthy body image in children and can help in a number of ways including understanding their own body image issues and aiming to develop positive self-talk so these messages are sent to children. Celebrating body diversity helps children understand that everyone is beautiful and acceptable, regardless of their shape, weight or size.

In Soccer, there are many body shapes and sizes that are suitable for a variety of positions. Encouraging children to step outside of their comfort zone by trying new and different activities can also help them understand their potential and build self-confidence and self-worth.

Organising shared meals between junior athletes when travelling to competition or before or after training, provides an opportunity to promote a positive association with healthy food. Encouraging children to become actively involved with the purchase and preparation of healthy meals and snacks early in life helps to develop a healthy relationship between the athlete, their food and their bodies.

Sometimes, despite everyone's best efforts, things do not go to plan and it is important to know the early warning signs of when a child may be experiencing issues with their self-esteem and body image. Picking up on these cues can help your child prevent developing a serious illness such as depression, anxiety or an eating disorder.

Vitamins and minerals

Adequate intake of vitamins and minerals is essential for good health, energy levels and performance for all children, but particularly for those who participate in regular exercise.

Eating a wide variety of foods, including wholegrains, vegetables, fruit, dairy foods and alternatives, lean protein sources and healthy fats will help to ensure that vitamin and mineral needs are met.

Generally, if a child is meeting their energy needs through a healthy diet, they will also meet their vitamin needs. Vitamin D is one possible exception to this. Diet only provides a small amount of daily vitamin D requirements with short and regular periods of exposure to the sun being required for the body to produce its own vitamin D. See Sports Dietitians Australia website www.sportsdietitians.com.au for more information on vitamin D for active people.

Vitamins with antioxidant activity, such as vitamins A, C and E, play an important role in helping the body's immune system. Including fresh fruit and vegetables, grains, nuts and seeds, each day will help ensure active children meet their requirements of these.

Dietary intakes of some minerals, in particular iron, zinc and calcium, have been reported to be sub optimal in a number of children and adolescents. These nutrients are particularly important for active, growing children.

Iron

This mineral is responsible for carrying oxygen around the body and is essential for maximising energy levels in active children and adults. Low iron levels can cause tiredness and will affect performance at training and during competition.

The best sources of dietary iron include lean red meats, liver and kidney. You should aim to include a small amount of lean red meat in active children's diet around 3-4 times a week.



Other sources of iron are green leafy vegetables, legumes such as lentils and baked beans, eggs and breakfast cereals. It is more difficult for the body to absorb the iron from these sources, so encourage children to eat complementary foods that supply vitamin C. Adding vitamin C increases the body's ability to absorb the iron from non-meat sources. For example, put strawberries on their iron-fortified cereal or offer a glass of orange juice with baked beans.



Zinc

Zinc is a mineral involved in many aspects of metabolism and is important for immune function, wound healing, taste and smell, and normal growth and development during childhood and adolescence. A wide variety of foods contain zinc, and although oysters contain more zinc per serving than any other food, lean red meat and poultry are the main sources in most people's diets. Other good food sources include beans, nuts, certain types of seafood (such as crab and lobster), whole grains, fortified breakfast cereals and dairy products.

Calcium

Calcium is the mineral responsible for healthy growth and development of bones. It also helps to keep the muscles working properly. A lack of calcium can lead to poor bone development during puberty and a possible increased risk of fractures in later life.

Active children should be encouraged to consume at least 2-3 serves of dairy foods or fortified soy alternatives each day. Examples of one serve include: 1 cup of milk; 1 tub of yoghurt; 2 slices of reduced fat cheese; 1 cup of a calcium enriched soy beverage.

Other good sources of calcium include canned fish



with edible bones (such as salmon), green leafy vegetables, nuts and seeds. Children, however, would need to eat quite large amounts of these choices to obtain a sufficient daily intake.

Supplements

Despite what the growing number of supplement manufacturers will try and convince you, there is no magic pill or potion that will substitute for a great training program, well planned eating strategies and positive sports psychology.

For junior athletes, there are few supplements that are recommended (or have been tested) in children under 16 years of age, and some have the potential to be detrimental to growth and development. Coaches, parents or junior Soccer players wanting to know more about sports nutrition supplements are encouraged to discuss their individual needs with an Accredited Sports Dietitian who can provide information on the usefulness and safety of different products.

And remember....

- The whole family may need to get organised for healthy eating – this can offer a great opportunity to encourage good food and fluid intakes for everyone. Remember that the age and activity level of family members will determine the amount of food they need to eat each day.
- Encourage children to recognise treats as occasional, rather than every day. Discourage excess indulgences by explaining that these foods are replacing the high performance foods that they need to train and play at their best.
- Where appropriate, use favourite Soccer heroes as a good example of health and fitness. All professional Soccer players have access to an Accredited sports dietitian to help them develop high performance eating strategies.



Further information:

Sports Dietitians Australia – www.sportsdietitians.com.au – to find:

- Fact sheets
- Survival of the Fittest Cookbooks
- Position Statement – Nutrition for Health & Performance – Adolescent Athlete
- An Accredited Sports Dietitian in your local area

The Butterfly Foundation – www.thebutterflyfoundation.org.au