

Planning for nutrition and health

Nutritional considerations for those with a disability and how to optimize nutrition for long-term health and wellbeing.

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THANK YOU!



A little about me...



- Bachelor of Exercise and Nutrition Sciences
- Masters of Dietetics Studies
- Exact Physiology
- Diverse workload
- Autism Spectrum Disorder, Sensory Processing Disorder, ADHD, Down Syndrome, mental health conditions
- Client-centred, multidisciplinary approach!





Benefits of Dietetic care



- What do Dietitians do?
- Helping to achieve client goals client-centred care
- Building knowledge and increasing independence
- Increasing strength, preventing illness and improving long-term health
- Reducing risk of chronic disease
- Correction of nutritional deficiencies
- Bidirectional relationship between diet and mental illness (depression and anxiety)
- Effect of medications on physical health, appetite regulation, motivation and alertness and physical activity
- Improving quality of life!



Nutrition and Disability



Many challenges and barriers to optimal nutrition

What are some challenges you and your clients have faced?







Swallowing/feeding difficulties



Motivation

Nutritional deficiencies

Nutrition support

Chronic Disease

Knowledge

Shopping and cooking

Food safety

Budgets

Weight loss

Weight gain

Fussy eating

Access

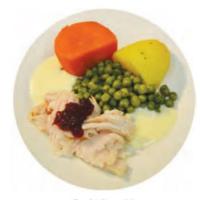
Undernutrition

Limited food preferences

Meal planning



- Can lead to inadequate food intake, pain when eating, aspiration, choking, malnutrition, pneumonia
- Dysphagia soft moist foods, adding sauces/gravies, bite sized pieces
- Texture modified diets Speech Pathologist/Health Professional prescribed



Soft food*



Puréed food served using scoops*



Fussy eating/limited food preferences



- Common in children with ASD, SPD continues into adulthood
- Vegetarian/vegan diets
- Can lead to malnutrition and micronutrient deficiencies
- Dietitian, OT, Speech Pathologist, Psychologist, GP
- Regular blood tests to assess nutritional status
- Food preference trends colour, texture, flavor, smell
- Positive encouragement to try new foods
- Structured eating times may be of benefit



Changes to appetite



- Can be both increased and decreased due to medications, stress/anxiety, depression, illness, acute and chronic diseases
- Can result in unintentional weight loss or gain
- Improve regularity of eating 3 main meals or 6 smaller more frequent meals
- Mindfulness around hunger and satiety cues
- If cues missing, setting alarms/designated eating times may be beneficial
- Meals with/without fluids





- Losing weight without trying, underweight, loss of appetite, prolonged illness or injury, unmet energy needs, untouched food, loss of strength risk factors for malnutrition
- Can lead to increased rates of morbidity and mortality
- GP and Dietitian review immediately
- Foods high in protein and energy improve weight, strength and independence

High protein foods:

- Lean meats, poultry, fish, tofu and egg food group.
- Milk, yoghurt or cheese food group.

High energy foods:

- Healthy fats and oils.
- · Grain (cereals) food group.
- Supplement drinks.











Vitamin and mineral deficiencies



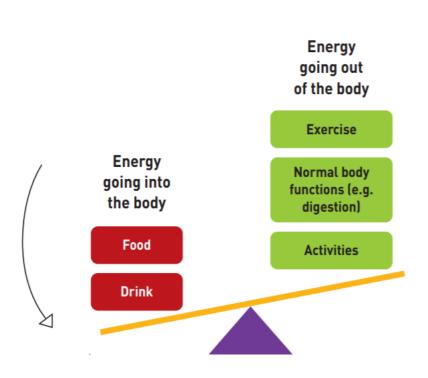
- Can result from previous medical conditions, fussy eating, malnutrition, eating patterns
- At risk of developing chronic diseases later in life e.g.
 Osteoporosis
- Blood test and GP confirmation
- Supplementation to correct, ultimately want to treat root cause
- Dietitian review for altering dietary pattern



Weight gain

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- Consuming more energy than body is using
- Overconsumption of EDNP foods
- Stress/anxiety, medications, boredom, emotional eating, not listening to fullness cues, quit smoking, lack of sleep
- Risk factor for chronic diseases
- Dietitian referral for personalized, client centred plan
- Weight centric or weight neutral
- Reducing EDNP amount and frequency, altering portion sizes of meals
- Increasing fruit and vegetable intake, physical activity, improving stress and sleep, mindful eating





The Australian Dietary Guidelines



Australian Dietary Guidelines

Guideline 1: To achieve and maintain a healthy weight, be physically active, and choose amounts of nutritious food and drinks to meet your energy needs.

Guideline 2: Enjoy a wide variety of nutritious foods from the five food groups every day and drink plenty of water.

Guideline 3: Limit intake of foods containing saturated fat, added salt, added sugars, and alcohol.

Guideline 4: Encourage, support and promote breastfeeding.

Guideline 5: Care for your food; prepare and store it safely.





Only sometimes and in small amounts



Source: A toolkit for healthy eating in supported accommodation: A best practice guide







Vegetables and legumes/beans



Fruit



Milk, yoghurt or cheese (mostly reduced fat)



Grain (cereal) foods (mostly wholegrain and high fibre varieties)



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

The five food groups: servings





Serves per day

))) 	19–50 years	51-70 years		
Men	6	51/2	5	
Women	5	5	5	

Vegetables and legumes/beans

A standard serve of vegetables is about 75g (100-350kJ) or:

½ cup cooked green or orange vegetables (for example, broccoli,

spinach, carrots or pumpkin)

½ cup cooked, dried or canned beans, peas or lentils*

1 cup green leafy or raw salad vegetables

1/2 cup sweet corn

½ medium potato or other starchy vegetables (sweet potato,

taro or cassava)

1 medium tomato

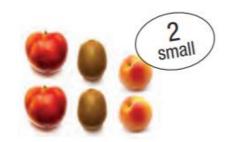
*preferably with no added salt











Serves per day

	19–50 years	51–70 years		
Men 2		2	2	
Women	2	2	2	

Fruit

A standard serve of fruit is about 150g (350kJ) or:

medium apple, banana, orange or pear
 small apricots, kiwi fruits or plums

1 cup diced or canned fruit (with no added sugar)

Or only occasionally:

125ml (1/2 cup) fruit juice (with no added sugar)

30g dried fruit (for example, 4 dried apricot halves,

11/2 tablespoons of sultanas)













Serves per day

	19–50 years	51-70 years	
Men	6	6	41/2
Women	6	4	3

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

A standard serve (500kJ) is:

1 slice (40g)

1/2 medium (40g) roll or flat bread

cooked rice, pasta, noodles, barley, buckwheat, semolina 1/2 cup (75-120g)

polenta, bulgur or quinoa

1/2 cup (120g) cooked porridge

2/3 cup (30g) wheat cereal flakes

1/4 cup (30g) muesli

> crispbreads 3 (35g)

crumpet

English muffin or scone 1 small (35g)





70+

years

21/2

Serves per day

21/2

years

21/2

Men

Women



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

A standard serve (500-600kJ) is:

65g	cooked lean meats such as beef, lamb, veal, pork, goat or
	kangaroo (about 90-100g raw)*

80g cooked lean poultry such as chicken or turkey (100g raw)

100g cooked fish fillet (about 115g raw weight) or one small can of fish

2 large (120g) egg:

1 cup (150g) cooked or canned legumes/beans such as lentils, chick peas or

split peas (preferably with no added salt)

170g tofu

30g nuts, seeds, peanut or almond butter or tahini or other nut or seed paste (no added salt) *weekly limit of 455g







Serves per day

		51–70 years	La Constitution	
Men	21/2	21/2	31/2	
Women	21/2	4	4	

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

A standard serve (500-600kJ) is:

1	cup (250ml)	fresh, UHT	long life,	reconstituted	powdered	milk or b	uttermilk
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½ cup (120ml) evaporated milk

2 slices (40g) or 4 x 3 x 2cm cube (40g) of hard cheese, such as cheddar

½ cup (120g) ricotta cheese

3/4 cup (200g) yoghurt

1 cup (250ml) soy, rice or other cereal drink with at least 100mg of added

calcium per 100ml



Meal planning and cooking



- Variety of foods from the 5 food groups
- Involve client in all steps: food preferences, menu planning, shopping, preparation, cooking
- Precut meats and vegetables
- Microwavable foods e.g. rice packets
- Canned legumes, lentils and vegetables
- Frozen meals, one pan meals
- Batch cook freeze meals for future lunch/dinners











If dessert is served, choose low fat yoghurt, plain savoury biscuits with reduced fat cheese, low fat custard, tinned or fresh fruit or fruit crumble.



Serve water at every meal.





Shopping and budgets



- Buy shelf stable staples in bulk
- Frozen fruit and vegetables
- Local farmers markets, buy in season produce
- Buy on special items
- Save, freeze and reheat leftovers
- Generic home brands
- Reduce red meat consumption
- Eat more canned legumes and lentils







Food safety



- USE BY and BEST BEFORE dates
- Wash hands, fruits and vegetables well
- Separate utensils for raw and cooked foods
- Hot food above 60°C and cold food below 4°C
- Reheat thoroughly, very hot all the way through
- Do not refreeze food that has already been defrosted
- Defrost foods in fridge or microwave, not kitchen bench





Chronic diseases



- Type 2 Diabetes Mellitus
- Cardiovascular Disease
- High blood pressure
- Cancer
- Coeliac Disease
- Irritable Bowel Syndrome
- Food intolerances
- Mental health conditions





- Between all key stakeholders: client, GP, support coordinator and support staff, allied health practitioners, family
- For consistent effective care, everyone needs to be on the same page
- Clear understanding of the clients' needs, goals and healthcare plans
- Feedback wanted!





















Thank you.

DISABILITY SUPPORT WORKERS CONFERENCE MADE POSSIBLE BY:







