A population health guide to behavioural risk factors in general practice Smoking Nutrition Alcohol Physical activity



Smoking, Nutrition, Alcohol and Physical activity (SNAP)

A population health guide to behavioural risk factors in general practice

Prepared by The Royal Australian College of General Practitioners National Standing Committee – Quality Care, in conjunction with the Publications Unit of the RACGP. Medical editor – Professor Mark Harris, University of New South Wales.

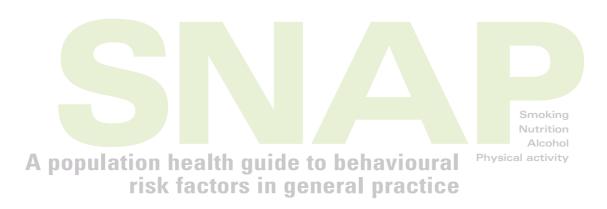
Funding supported by the Australian Government Department of Health and Ageing.

Published by:
The Royal Australian College of General Practitioners
College House
1 Palmerston Crescent
South Melbourne, Victoria 3205
Australia
Tel 03 8699 0414
Fax 03 8699 0400
www.racgp.org.au

ISBN 0 86906 265 4

Published October 2004

© The Royal Australian College of General Practitioners.
All rights reserved.



Cont	tents	
1.	Introduction	3
	Planning – making a difference The risk factors	5
1.1	Smoking	6 6
1.2	Nutrition	6
1.3	Alcohol	6
1.4	Physical inactivity	6
1.5	Health inequalities	6
2.	Introduction to the 5As and stages of change theory	
2.1	The 5As	7
2.2	Patient readiness to change	8
3.	Applying the 5As to each risk factor	
3.1	Smoking	10
3.1.1	Ask and assess	10
3.1.2	Advise and assist	11
3.1.3	Arrange	12
3.1.4	Follow up	13
3.2	Overweight and obesity	14
3.2.1	Ask and assess	14
3.2.2	Advise and assist	15
3.2.3	Arrange	16
3.2.4	Follow up	16
3.3	Nutrition	17
3.3.1	Ask and assess	17
3.3.2	Advise and assist	17
3.3.3	Arrange	19
3.3.4	Follow up	19
3.4	Alcohol	20
3.4.1	Ask and assess	20
3.4.2	Advise and assist	21
3.4.3	Arrange	22
3.4.4	Follow up	23
3.5	Physical activity	24
3.5.1	Ask and assess	24
3.5.2 3.5.3	Advise and assist	24
	Arrange	26
3.5.4	Follow up	26

Contents 4. **Practice organisation** 4.1 27 Introduction 4.2 Setting practice priorities 28 4.3 Roles and responsibilities 30 4.4 31 Managing access 4.5 31 Information management and systems 31 4.5.1 Record and register systems 4.5.2 Risk assessment tools 32 4.5.3 Patient education materials 32 4.5.4 Referral information 33 4.6 Quality improvement 34 4.7 34 Linkages 5. Resources and further reading 5.1 Guidelines 35 5.1.1 Smoking 35 5.1.2 Overweight and obesity 35 5.1.3 Nutrition 36 5.1.4 Alcohol 36 5.1.5 Physical activity 36 5.2 Patient education, nonpharmacological scripts 37 5.3 Specific organisations 37 5.4 Estimation of cardiovascular risk 37 5.5 Short training courses 38 6. References 40 Appendix 1 Grading of evidence and recommendations Appendix 2 Example SNAP care plan **Appendix 3 Example Practice SNAP inventory** Appendix 4 Estimation of cardiovascular risk

1. Introduction

This guide is designed to assist general practitioners and practice staff to work with patients on the lifestyle risk factors of Smoking, Nutrition, Alcohol and Physical activity (SNAP). Organisations working with general practices such as divisions of general practice, public health services and other agencies that provide resources and training for primary care staff may also find this guide valuable.

The SNAP guide covers:

- why these risk factors are important and why general practice is the right place to influence SNAP risk factor behaviour in adults
- how to assess if a patient is ready to make lifestyle changes
- a five step model (5As) for detection, assessment and management of SNAP risk factors (ask, assess, advise, assist, arrange)
- effective clinical strategies for SNAP risk factors (and overweight and obesity) using the 5As model
- practical business strategies to apply the SNAP approach to general practice (including samples of roles for practice staff)
- resources including:
 - a SNAP Practice Inventory
 - a sample SNAP Care Plan (for patients who meet the eligibility requirements for the Enhanced Primary Care [EPC] Multidisciplinary Care Team Medicare Benefits Item)
 - where to find the right guidelines, tools and organisations to support you in giving brief advice to your patients.

The SNAP guide is based on the best available evidence at the time of publication. Specific clinical recommendations in the tables are graded according to levels of evidence and the strength of recommendation. The levels of evidence are coded by Roman numerals I–V while the strength of recommendation is coded by the alphabet letters A–E. (More detail on the levels of evidence and strength of recommendation can be found in *Appendix 1*). Further information on preventive care in general practice can be found in the RACGP *Guidelines for preventive care in general practice*.

The SNAP risk factors are common among patients attending general practice. In 2002–2003 of adult patients attending general practice encounters¹:

- 54.7% were overweight or obese
- 17.2% were daily smokers, 4.1% were occasional smokers, 27.2% were previous smokers, and
- 26.2% drank 'at risk' levels of alcohol.

In 1998/1999, 65.3% of patients reported doing less than 150 minutes of moderate physical activity spread over five sessions per week.²

Each of these risk factors is associated with many diseases – and may themselves interact with each other throughout the lifecycle. Therefore, it is important not to deal with each risk factor in isolation. The 'absolute risk' approach being developed by the National Vascular Disease Prevention Partnership attempts to place assessment and intervention of an individual risk factor within the context of the 'absolute risk' that the patient will have a vascular event in the next 5 years. This approach is illustrated in *Section 5.4* of this guide.

Planning - making a difference

Information on risk factors can be used to help educate patients about the need to change their lifestyle and to help the GP and patient decide when and how to intervene. The interventions agreed to can be summarised on a management plan of the patient's care and risk factors referred to in subsequent consultations. When interventions are jointly planned and negotiated – and information is shared between doctor and patient – the patient is assisted to exercise autonomy and follow the agreed plan.

The 'stages of change' model, together with a patient centred approach and informed decision making underpin the approach used in this guide.

These methods of working with patients form the basis of sustainable behaviour change as they involve patients in making decisions about the goals they are prepared to aim for to improve their health. The *Chronic condition self management guidelines* (RACGP 2002) outline in more detail the principles of patient self management that also apply in this context.

Plans for patient care can be prepared using normal Medicare consultation items (including long consultation items). For patients with a chronic or terminal medical condition and complex care needs, an EPC multidisciplinary care plan may be appropriate (see SNAP Care Plan *Appendix 2*). Enhanced Primary Care multidisciplinary care plans are comprehensive, longitudinal plans for patient care. While they are not appropriate for patients who are merely 'at risk' of disease, EPC care plans can be an important tool for managing risk factors and interventions for those patients who have chronic medical conditions and complex needs.

The risk factors

1.1 Smoking

Most people who smoke begin using tobacco in their teenage years and almost all first time use occurs before 20 years of age.³ Tobacco smoking is the risk factor responsible for the greatest burden of disease in Australia, accounting for 12% of the burden in males and 7% in females, and an increased burden among low socioeconomic status (SES) groups. It is estimated to kill approximately half of long term users,⁴ causing 40% of deaths in men, and 20% of deaths in women before 65 years of age.⁵ Every year, approximately 19 000 Australians die from diseases caused by smoking.⁶

1.2 Nutrition

Exclusive breastfeeding for at least the first 6 months of life offers considerable health benefits to infants – and in the long term – to children and adults. Diets low in fruit and vegetables have been causally linked to cancer and cardiovascular disease (CVD), accounting for nearly 3% of the total burden of disease (men 3%, women 2.4%). The most recent national data on the prevalence of overweight and obesity in Australian children and adolescents reports that between 20–25% of Australian children and adolescents are either overweight or obese.

1.3 Alcohol

Light or moderate alcohol consumption reduces the total burden of disease by 2.8%. Excessive alcohol consumption increases the disease burden by 4.9%.¹ While regular intake at light to moderate levels of alcohol protects against CVD, alcohol consumption at all levels above abstinence increases the risk of other diseases and injuries.¹ Alcohol use is also associated with road traffic accidents, crime and social problems, and lost productivity.

1.4 Physical inactivity

Physical inactivity is responsible for 7% of the total burden of disease,¹ and accounts for approximately 8000 deaths per year in Australia.¹¹

1.5 Health inequalities

Risk factors for heart, stroke and vascular disease are far more prevalent in people from low SES backgrounds and indigenous Australians. ¹² However, there is evidence that the health risk status of low SES groups is improving, probably related to improved diet, smoking rates and awareness of preventive care. ¹³ This suggests that targeting CVD preventive activities to low SES groups may be beneficial. Socioeconomically disadvantaged people make greater use of primary and secondary health services such as doctors, hospitals and outpatient clinics; but are less likely to use preventive health services. ¹⁴

2. Introduction to the 5As and stages of change theory

2.1 The 5As

At the practice level, there are five main roles for assisting patients (adapted from the 5As approach developed by the US Department of Health¹⁵) which are similar across all SNAP risk factors (*Figure 1*):

Ask (1)

• identify patients with risk factors

Assess (2)

• level of risk factor and its relevance to the individual in terms of health

• readiness to change/motivation

Advise (3)

• provide written information

• provide a lifestyle prescription

• brief advice and motivational interviewing

Assist (4)

• pharmacotherapies

support for self monitoring

Arrange (5)

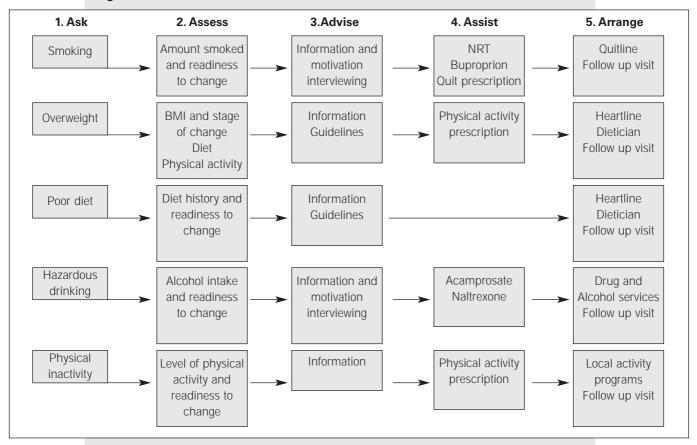
referral to special services

• social support groups

• phone information/counselling services

• follow up with the GP.

Figure 1. The 5As



2.2 Patient readiness to change

In assessing how ready patients are to changing their lifestyle, ask the patient if they are:

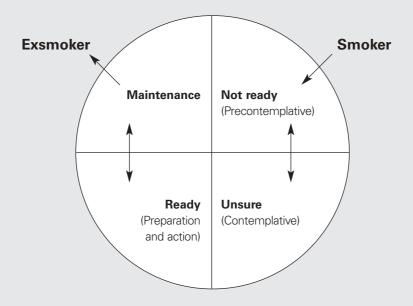
- not convinced of the need for change?
- willing to make a change but not confident about their ability to succeed?
- ready to make a change but not sure how to best go about it?
- in the process of trying to make a change?
- trying to sustain a change they have already made?

These 'stages of change' (*Figure 2*) can help to determine the best management approach. ¹⁶ For patients who are unconvinced, explore the reasons why the patient should change:

- what are the benefits and barriers for the patient
- how big is the problem for this individual, and
- what are the consequences of not making a change?

For patients who are not confident about their ability to succeed, information and reassurance about their likelihood of success and the support available should be given. For patients who are ready to make a change, time can be spent explaining and planning how to make that change. Patients who have already made a change, may need follow up to monitor progress and help deal with any relapse or difficulties.

Figure 2. The stages of change model in smoking cessation



A systematic approach to motivational interviewing

- Examine the good things about improving lifestyle (eg. nutrition or physical activity) and self management by the patient
- Ask about the less good things and compare these with the good things
- Explore if these less good things really are a negative
- Ask the patient: How does this concern you? Why does it concern you?
- Look to the future: Is the good/not so good balance going to change?
- Highlight any discrepancies
- Get the patient to rate their motivation and confidence on a scale of 1–10
- Summarise
- Identify strengths and barriers to lifestyle change and self management

Source: The RACGP. Sharing health care guidelines. Chronic condition self management guidelines, 2002

3. Applying the 5As to each risk factor

3.1 Smoking

3.1.1 Ask and assess

Smoking status should be assessed for every patient 10 years of age and over.¹⁷ Ask at every opportunity, especially if there is a related medical problem (eg. respiratory or CVD). This should be documented in the medical record.

Question	Answer	Level of evidence and strength of recommendation
When to start screening?	All people aged 10 years or over	I–A
When to stop screening?	No upper age limit for screening has been reported	None available
How often to screen?	Take every opportunity to ask about the smoking	III–A
	of cigarettes, pipes or cigars	
Which groups are at higher	Pregnant women	I–A
risk of developing smoking	Parents of babies and young children	III–A
related complications and	Indigenous Australians	
would benefit most from	People with mental illness	
quitting?	People with other chemical dependencies	
	People with smoking related diseases	
	People with diabetes or other cardiovascular risk factors	
	People from low SES groups ^{18,19}	
What methods to use	Include smoking status as part of routine history taking.	I–A
when screening?	Consider implementing systems changes at practice or clinic	
	level, eg. using stickers in patient records - these have been	III–B
	shown to be effective in helping GPs identify smokers and	
	keeping track of progress	
How should I assess	This must be done in a nonjudgmental and nonthreatening	I–A
readiness to quit?	way, eg. How do you feel about giving up smoking?	
Benefits and risks of	Quitting smoking has benefits in reducing the risk of cancers,	III–B
preventive actions?	coronary artery disease, chronic obstructive airways	
	disease and stroke. There are no risks from preventive actions	

Questions	Answers	Score
1. How soon after waking up do you smoke your first cigarette	e? Within 5 minutes	3
	6–30 minutes	2
	31–60 minutes	1
2. How many cigarettes a day do you smoke?	10 or less	0
	11–20	1
	21–30	2
	31 or more	3

The Fagerstrom test can be used by GPs to determine if the patient has nicotine dependence and therefore offer the patient pharmacotherapies such as nicotine replacement therapy (NRT).

3.1.2 Advise and assist

Patients who smoke (regardless of the amount they smoke) should be offered brief advice to stop smoking (**A**).^{21,22} Smoking cessation is well established as an effective intervention within the primary care setting. Simple, single consultation advice given from a GP results in 1–2% of smokers quitting and not relapsing for 1 year.²³

Question	Answer	Level of evidence and strength of recommendation
Is counselling from a GP	Yes. Brief advice given by GPs during a single routine	I–A
effective in getting people	consultation is more effective than no intervention at all.	I–A
to quit?	Interventions work best in people who are ready and	
	motivated to quit and follow up support is provided	
Who should be offered	All patients especially those presenting with smoking	I–A
patient education?	related problems. ²⁴ Education should be supplemented	
	by written patient education material	
Who should be offered	Pharmacotherapy may be considered in all patients	I–A
pharmacotherapy to assist	smoking more than 10 cigarettes per day. In the absence	
cessation?	of contraindications, pharmacotherpy should be offered	
	to all motivated smokers who have evidence of nicotine	
	dependence	
Should I counsel non-smokers	Yes. Although there is no evidence regarding the effectiveness	III–B
about passive smoking?	of counselling, strong evidence on the harms of passive	I–A (for pregnant women)
	smoking justifies counselling nonsmokers, especially parents	
	of babies and young children, and pregnant women to limit	
	exposure to tobacco smoke ^{25,26}	
Should patients be offered	Yes. Patients should be offered follow up visits at 1 week	I–A
follow up visits?	and 1 month. Further follow up should be negotiated	
	between doctor and patient	

Patients not interested in quitting smoking should be offered brief advice on the risks of smoking and encouraged to consider quitting. Patients who are interested in quitting smoking but are unsure should be offered information on smoking cessation including what is available in the way of support (eg. Quitline, NRT) and offered a follow up visit.

Smokers who are ready to quit should be assisted by:

- setting a quit date
- identifying smoking triggers and discussing quit strategies
- providing self help materials

- prescribing nicotine gum or patch if appropriate
- arranging follow up visits at 1-2 weeks to prevent relapse, and
- considering referral to a quit program.²⁷

All patients who smoke more than 10 cigarettes per day should be considered for pharmacotherapy, especially those who are nicotine dependent.

Nicotine replacement therapy produces a two-fold increase in smoking cessation at 3–5 months. Contraindications include recent onset of life threatening arrhythmia, pregnancy, and lactation. Caution should also be exercised in patients with recent acute myocardial infarction or severe or worsening angina pectoris, recent stroke or arrhythmia.

Bupropion has been shown to be effective when combined with behavioural therapies in dependant patients. It is contraindicated in patients with allergy to bupropion, seizures, anorexia or bulimia, central nervous system tumours or monoamine oxidase inhibitor (MAOI) treatment within 14 days. It should be used with caution in patients with alcohol abuse, recent head trauma, diabetes, patients on stimulants or anorectic drugs, drugs that may lower seizure threshold, renal impairment or patients on NRT.

Patients with other drug and alcohol problems or mental health disorders may need particular support to reduce smoking. SANE Australia can assist GPs with support materials for patients with mental disorders. Help line: 1800 688 382, email: helpline@sane.org, website: www.sane.org.

3.1.3 Arrange

Patients who are motivated and physically or psychologically addicted to nicotine should be referred to a quit program (**III B**). If a smoker has a chronic medical condition and/or complex needs, they may benefit from an EPC multidisciplinary care plan.

Quitline - 131 848 or www.quitnow.info.au/

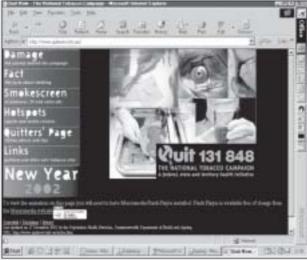


Image courtesy of the National Tobacco Campaign. Reproduced with permission

Quitline is a telephone information, advice and counselling service for people who want to quit smoking. The 'Quit book' provides information on:

- the best way to quit
- coping with withdrawal symptoms, and
- Quit courses and details of local organisations that can provide help and counselling.

Further referral services can be found on page 35. Information about how to set up a practice directory can be found in *Section 4* of this guide.

3.1.4 Follow up

Patients should be reviewed within 1 week and then again at 1 month after quitting smoking to help increase the chance of quitting long term. The practice information system should generate reminders or lists of patients overdue for follow up (see page 31). Most relapses occur in the first few weeks and patients should be encouraged to keep trying even if they have relapsed. It often takes a number of attempts to quit smoking successfully.

3.2 Overweight and obesity

3.2.1 Ask and assess

Weight is associated with diet and levels of physical activity. Body mass index (BMI) and adult waist circumference should be measured every 2 years for those patients who appear over or underweight (A). Weight alone may be used to monitor the patient at follow up.

Waist circumference

An adult's waist circumference is measured half way between the inferior margin of the last rib and the crest of the ilium in the mid-axillary plane. The measurement is taken at the end of normal expiration.

	Men	Women
Increased risk	>94 cm	>80 cm
High risk	>102 cm	>88 cm

Body mass index

Body mass index = body weight in kilograms divided by the square of height in metres. BMI on its own may be misleading especially in older people and muscular individuals and classifications may need to be adjusted for some ethnic groups.²⁹

Classification	ВМІ	Risk of morbidities
Underweight	Below 18.5	Increased
Normal weight	18.5–24.9	Low
Overweight	25 or greater	
Preobese	25.0-29.9	Increased
Obese I	30.0–34.5	Moderate
Obese II	35.0–39.9	Severe
Obese III	40 or over	Very severe

People who are overweight have a higher risk of disease including coronary heart disease (CHD), diabetes, dyslipidaemia, hypertension, and bone and joint disorders. The presence of excess fat in the abdomen is an independent predictor of morbidity. The patient's motivation to lose weight should be assessed to better target advice. Blood pressure should be measured on all patients over the age of 18 years.

For children and adolescents, age specific BMI percentile charts should be used (available from children's hospitals in each state).

For further information on the management of obesity, see the NHMRC *Clinical practice guidelines for the management of overweight and obesity in adults* and the NHMRC *Clinical practice guidelines for the management of overweight and obesity in children and adolescents.* Both of these guidelines can be downloaded from: www.obesityguidelines.gov.au.

3.2.2 Advise and assist

Advice should be tailored to the degree of overweight. Patients who are overweight or obese should be offered individual education and skills training.²⁹

Question	Answer	Level of evidence and strength of recommendation
What dietary advice should be provided?	Reduce total energy intake over time. This should involve reduced fat, high sugar drinks and food The size of food portions should be reduced	II
What physical activity should be recommended?	Any increase consistent with the patient's medical condition should be encouraged. This should start with moderate physical activity	I
What is recommended for adolescents and children?	Restrictive dieting is not recommended for children and adolescents. However, increasing physical activity should be encouraged in ways which are appropriate for the age of the child	V
What should the goals for weight loss in adults be?	The goals should be to achieve a sustainable weight reduction (1–4 kg per month in the short term, 10% of initial body weight in the long term)	V

For adults there is a range of treatment options.²⁹ For most overweight patients, individual education and simple behavioural interventions are appropriate, eg. low cost activities such as walking. For those with disordered eating patterns or thinking, cognitive behavioural therapy (CBT) approaches are the most appropriate. For a small number of obese patients (BMI >30 or BMI >27 with other diseases) who do not respond, medical or surgical interventions may need to be considered. Drugs that may be added to education and behavioural interventions include orlistat and sibutramine for long term therapy, and phentermine and diethylpropion for short term use only.

Small amounts of weight loss or lack of any increase can be viewed as successes with health gains likely. Any changes made must be able to be maintained in the longer term. Fad diets are not recommended for long term weight loss.

3.2.3 Arrange

People suffering from obesity should have long term contact with, and support from, health professionals. Multidisciplinary care from appropriate services or an allied health professional such as a dietician is recommended, especially in complex cases and in patients with morbid obesity (**V–C**).²⁹ Patients suffering from obesity who have a chronic medical condition and complex needs may benefit from an EPC multidisciplinary care plan.

Consult the 'find a dietician' section of the Dietitians Association of Australia website (www.daa.asn.au) or phone 1800 812942 to find a dietician in your local area. Contact details of local dietetic services should be included in the practice directory (see *Section 4*).

Further referral services can be found on page 35 of this guide.

3.2.4 Follow up

Patients should be reviewed after 2–3 months to help increase the chance of sustaining lifestyle changes over the long term. The practice information system should generate reminders or lists of patients overdue for follow up (see page 31). Emphasis at follow up should be on sustained change in diet (and physical activity) rather than on repeatedly measuring weight (unless otherwise indicated for specific diseases such as diabetes). Relapse and weight gain are common. Patients should be followed up at yearly intervals over 5 years after weight reduction is achieved.

3.3 Nutrition

3.3.1 Ask and assess

Diet is an important risk factor – independent of weight. The frequency and quantity of fruit and vegetable consumption is considered an important indicator in the Australian diet. Ask patients how many portions of fruit or vegetables are eaten in a day. At least five portions of vegetables and two portions of fruit should be consumed each day.^{30,31}

Examples of a single portion

Fruit

1 medium size apple, banana, orange, quarter of a rockmelon

1/2 cup of fruit juice

4 dried apricots or 1 1/2 tablespoons of sultanas

1 cup of canned or fresh fruit salad

Vegetables

1/2 cup cooked vegetables (75 g)

1 medium potato

1 cup of salad vegetables

Note: Rice and pasta do not count as a vegetable

Total cholesterol, LDL cholesterol, HDL cholesterol and triglyceride tests should be performed on at risk patients between 20–75 years of age as part of absolute CVD risk assessment (see the RACGP *Guidelines for preventive care in general practice*). At risk patients include those who are overweight, smoke, or have a past or family history of CVD.

3.3.2 Advise and assist

While there is evidence that nutritional counselling is effective in changing diet, the role of the GP has not been adequately evaluated.³²

Question	Answer	Level of evidence and strength of recommendation
Preventive action?	Patients should be encouraged and supported to follow	II-B
	Australian dietary recommendations. Patients should be	
	advised to eat at least 7 portions of fruit or vegetables	
	per day ³³	
Should vitamin	Vitamin supplementation is not of established value in	V–C
supplementation be	asymptomatic individuals* (with the exception	
recommended for	of folate in pregnancy)	
asymptomatic individuals?		
Should asymptomatic	There is insufficient information that for the general	V–C
individuals take beta-carotene	population this results in improved health outcomes	
or other antioxidants?		

^{*} Prevalence of nutritional deficiency is high in groups such as alcoholics, the elderly living alone and in institutions

General practitioners should recommend patients follow the *Dietary guidelines for Australian adults* and the *Dietary guidelines for children and adolescents in Australia*. 34,35

Dietary guidelines for Australian adults

- Enjoy a wide variety of nutritious foods
 - eat plenty of vegetables, legumes and fruits
 - eat plenty of cereals (including breads, rice, pasta, noodles) preferably wholegrain
 - include lean meat, fish, poultry and/or alternatives
 - include milks, yoghurts, cheeses and/or alternatives. Reduced fat varieties should be chosen where possible
- Drink plenty of water

And take care to:

- limit saturated fat and moderate total fat intake
- choose food low in salt
- limit your alcohol intake if you choose to drink
- consume only moderate amounts of sugars and foods containing added sugars
- Prevent weight gain: be physically active and eat according to your energy needs
- Care for your food: prepare and store it safely
- Encourage and support breastfeeding

Note: Low fat diets are not recommended for children 2 years and under.

Patients with specific conditions may require specific dietary advice. Recommendations can be found at websites of the Heart Foundation of Australia, Diabetes Australia, National Stroke Foundation, Cancer Council of Australia and the Australian Kidney Foundation (see page 37).

Dietary advice for patients with abnormal lipids includes the restriction of foods with high quantities of polyunsaturated or monounsaturated fats. Further details on the management of these conditions are available in the National Heart Foundation and Cardiac Society *Lipid guidelines*.³⁶

Patients with elevated blood pressure (systolic >130 or diastolic >85) should be offered advice on weight reduction, healthy eating (in particular dietary sodium intake), alcohol consumption, regular moderate physical activity, and smoking cessation.

Minimum daily sample serves needed to achieve at least 70% of the requirements for protein, vitamins and minerals (adults over 19 years of age).

Nivershau of doily comes

rooa group	Number of daily serves
Bread, cereals, rice, pasta, noodles	4
Vegetables, legumes	5
Fruit	2
Milk, yoghurt, cheese	2
Meat, fish, poultry, eggs, nuts	1

What people consider a daily serving from a food group may vary. Sample serves define equivalent foods within a food group. A sample serve comprising 2 slices (60 g) of bread is equivalent to 1 1/3 cups (40 g) of ready to eat cereal flakes or 1 cup (180 g) of cooked rice, pasta and noodles. Details of sample serves can be found at the Australian Guide to Healthy Eating website (www.health.gov.au/pubhlth/strateg/food/guide/materials.htm).

Weight reduction can be achieved in a variety of ways, eg. reduced fat (particularly saturated fat), carbohydrate, protein or alcohol intake and smaller portion size.²⁸ Any changes must be maintainable in the long term. Fad diets are not recommended for long term weight loss.

3.3.3 Arrange

People suffering from nutrition related conditions or obesity should have long term contact with, and support from, health professionals. Multidisciplinary care from appropriate services or an allied health professional such as a dietician is recommended, especially in complex cases and for patients with morbid obesity (**V–C**).²⁸ Patients with nutrition related conditions who have a chronic medical condition and complex care needs may benefit from an EPC multidisciplinary care plan.

Consult the 'find a dietician' section of the Dietitian Association of Australia website (www.daa.asn.au) or phone 1800 812942 to find a dietitian in your local area. Contact details of local dietetic services should be included in the practice directory (see *Section 4*).

Heartline - 1300 36 27 87

Heartline is the National Heart Foundation of Australia's telephone service. The cost is a local call from anywhere in Australia. Heartline is staffed by trained health professionals who can provide information on CVD management, nutrition and healthy eating, BP, smoking cessation, and physical activity. Heartline also offers information on relevant support programs, and information booklets on a range of topics. Further referral services can be found on page 36.

Nutrition Australia also provides a useful service for health professionals and the general community (www.nutritionaustralia.org/default.htm).



Image courtesy of Nutrition Australia. Reproduced with permission

3.3.4 Follow up

Patients should be reviewed at 2–3 months to help increase the chance of sustaining long term dietary change. Practice information systems should generate reminders or lists of patients overdue for follow up (see page 31). Emphasis at follow up should be on sustained change in diet (and physical activity) rather than on repeatedly measuring weight (unless otherwise indicated for specific diseases such as diabetes). Relapse and weight gain is common. Patients should be reviewed at yearly intervals over 5 years after weight reduction is achieved.

3.4 Alcohol

3.4.1 Ask and assess

All patients should be asked about the quantity and frequency of alcohol intake and number of alcohol free days each week from 14 years of age (**B**).³⁷ As some patients may be sensitive to questioning, it is important to be nonjudgmental. Australian men should limit their consumption to a maximum of four standard drinks of alcohol per day (28 per week); women to two standard drinks per day (14 per week).³⁸ Drinking at risk levels is most common for men and women 30–45 years of age. The proportion of men drinking at risk levels is 1.5–2.0 times that of women at all ages.

Question	Answer	Level of evidence and strength of recommendation
When to start screening?	14–15 years of age	II–B
When to stop screening?	Continue indefinitely	II–A
Optimum frequency of screening in asymptomatic persons?	At least every 3 years	II–A
Should those in higher risk groups be screened more often?	Whenever they present	V–C
Groups not requiring screening?	Children	V–C
Optimum method of screening?	Ask about quantity and	V–A
	frequency of alcohol use.	
	Consider using the AUDIT	
	questionnaire*	
Methods of screening not recommended?	Routine measurement of	V–D
	biochemical markers	
High risk groups for complications?	People with high BP or liver	I–A
	disease, pregnant	
	women	
High risk groups for drinking and complications?	People showing 'red flag'	IV-B
	risk factors**	

- * Alcohol Use Disorders Identification Test (AUDIT) is a 10-item screening instrument developed by a WHO collaborative study to help identify patients at risk from harmful and hazardous drinking
- ** Red flag risk factors: accidents/trauma, psychological/psychiatric problems, family/relationship problems, employment problems, involvement in crime, sexual dysfunction, sleep problems. In assessing risk, particular attention should be given to young people and indigenous Australians

Alcohol consumption is calculated from the amount of alcoholic beverages such as beer, cider, wine, spirits and mixed drinks usually consumed in 1 day combined with the number of days per week in which alcohol is usually consumed. Alcohol consumption is usually measured in 'standard' drinks. An Australian standard drink contains 10 g of alcohol, which is equivalent to 12.5 mL of alcohol.³⁸

Light beer	Full strength beer	Wine	Spirits	Port/sherry
2.7%	4.9%	12%	40%	20%
Large glass	Medium glass	Glass	Nip	Glass
425 mL	285 mL	100 mL	30 mL	60 mL











Risk of harm in the short term¹9				
	Low risk (standard drinks)	At risk (standard drinks)	High risk (standard drinks)	
Men (on any 1 day)	Up to 6 on any 1 day, no more than 3 days/week	7–10 on any 1 day	11 or more on any 1 day	
Women (on any 1 day)	Up to 4 on any 1 day, no more than 3 days/week	5–6 on any 1 day	7 or more on any 1 day	

Risk of harm in the long term				
At risk (standard drinks)	High risk (standard drinks)	(standard drinks)		
Up to 4	5–6	7 or more		
Up to 28 per week	29–42 per week	43 or more per week		
Up to 2	3–4	5 or more		
Up to 14 per week	15–28 per week	29 or more per week		
	At risk (standard drinks) Up to 4 Up to 28 per week Up to 2	At risk (standard drinks) Up to 4 Up to 28 per week Up to 2 3–4		

3.4.2 Advise and assist

Brief interventions to reduce alcohol consumption should be offered to all patients drinking at potentially risky or high risk levels (**A**).³⁹ Patients are more likely to be responsive to changing their drinking habits if they see a connection between their drinking and a health problem, if they believe they can change, and that things will improve if they do.

Question	Answer	Level of evidence and strength of recommendation
Advice to be given as a result of screening?	Simple advice to reduce alcohol consumption should be given to all patients drinking at potentially risky or high	I–A
	risk levels. Everyone who consumes alcohol should be counselled about the dangers of operating a motor vehicle or performing other potentially dangerous activities after drinking	II–B
	Pregnant women should consider abstaining from alcohol	V–A
Benefits and risks of preventive actions?	Australian and UK studies have shown that GPs providing brief advice has resulted in a 25–30% reduction in alcohol consumption and a 45% reduction in the number of excessive drinkers	I–A

Treatment options need to be tailored to the patient's needs and priorities. Patients drinking at potentially risky or high risk levels should be assessed according to their readiness to change their drinking pattern. Avoid arguing with patients. Patients who are not ready change their drinking pattern should be offered information about the risks associated with their level of alcohol use. Patients who are ready, should be provided with brief motivational counselling.

Patients should be encouraged to set their own goals. Try to reach agreement about the number of drinks per day and the number of alcohol free days per week. Ask patients to assess their own motivation and confidence in making a change. High risk situations should be identified and avoided, and appropriate social support such as friends or family should be enlisted. Patients should also be given information on self help and the available support services.

Drug therapy should be used in conjunction with behavioural counselling. Both acamposate and naltrexone improve the rate of abstinence and reduce the rate of relapse drinking over the first 3–6 months. Acamprosate has more consistent treatment effects. Naltrexone should not be used where patients are using opiods, have acute hepatitis or hepatic failure. Acamprosate should not be used in patients with renal failure.

3.4.3 Arrange

Patients who have acute problems with alcohol consumption or fail to respond to brief interventions, should be referred to a local drug and alcohol counsellor or counselling service. Patients who drink alcohol at high risk – or potentially high risk levels – who also have a chronic medical condition and complex care needs may benefit from an EPC multidisciplinary care plan.

Telephone information services

New South Wales Alcohol and Drug Information Service (ADIS) – 24 hour hotline

Ph: 02 9361 8000 Toll free: 1800 422 599

Victoria Alcohol and Drug Direct Line Toll free: 1800 888 236

Western Australia Alcohol and Drug Information Service (ADIS) – 24 hour hotline

Ph: 08 9442 5000 Toll free: 1800 198 024

Queensland Alcohol and Drug Information Service (ADIS) – 24 hour hotline

Ph: 07 3236 2414 Toll free: 1800 177 833

South Australia Alcohol and Drug Information Service (ADIS) – 24 hour hotline

Toll free: 1300 131 340

Northern Territory Amity Community Service Ph: 08 8981 8030 Toll free: 1800 629 683

Tasmania Alcohol and Drug Information Service Toll free: 1800 811 994

ACT Alcohol and Drug Information Service Toll free: 1800 422 599

Further referral services can be found on page 36. A local directory of services for patients with alcohol problems may be compiled for the practice (see *Section 4*).

3.4.4 Follow up

Patients should be reviewed 1–3 months after their first visit to monitor progress and review goals. The practice information system should generate reminders or lists of patients overdue for follow up (see page 31). Most relapses in behaviour occur in the first few weeks and patients should be counselled to keep trying even if they have relapsed.

3.5 Physical activity

Physical activity can be defined as 'any bodily movement produced by skeletal muscles that results in energy expenditure'. Exercise is a subset of physical activity that is planned, structured, repetitive and purposive for improvement or maintenance of fitness. Physical fitness is a state reflecting cardiovascular endurance, strength and mobility that may result from a variety of factors including physical activity. Physical inactivity is an important risk factor for overweight, obesity and many chronic diseases.

3.5.1 Ask and assess

Patients should be asked about their daily physical activity and assessed to determine if they walk or participate in leisure time physical activity of sufficient intensity and duration for health benefits. Sufficient physical activity for health benefit for a usual 7 day period is calculated by summing the total minutes of brisk walking, moderate and/or vigorous physical activity. Vigorous physical activity is weighted by a factor of two to account for its greater intensity. Total minutes for health benefit needs to be equal to or more than 150 minutes per week over five or more sessions per week. There should be discussion on what type of activity the patient enjoys and what the barriers and enabling factors are to physical activity.

Question 1

How many times a week do you engage in 30 minutes (all together or in shorter amounts) of brisk walking or moderate physical activity that increases your heart rate or makes you breathe harder than normal? Eg. digging in the garden, dancing, golf, tennis.

Question 2

How many times a week do you engage in 20 minutes of vigorous physical activity that makes you sweat or puff and pant? Eg. jogging or running, tennis, swimming, bike riding, aerobics or fitness exercises.

These questions are contained within the physical activity module available in some general practice software programs. This program also produces a physical activity prescription and has a recall function.

All patients should have their weight assessed, in particular BMI and waist circumference, as outlined in *Section 3.2*.

3.5.2 Advise and assist

Regular moderate physical activity reduces all cause mortality, incidence of CHD, hypertension, NIDDM, obesity, osteoporosis, colon cancer, falling, anxiety and depression, (**A**)⁴¹ and diabetes in those with impaired glucose metabolism.⁴² Advise moderate physical activity on most, or preferably all days of the week for an accumulation time of at least 30 minutes per day (**A**).⁴³ This can be aided by the use of a physical activity prescription (**B**).⁴⁴

Question	Answer	Level of evidence and strength of recommendation	
How much physical Advise moderate physical activity on most, preferably		III–A	
activity is enough?	all days of the week for an accumulated time of 30 minutes		
	per day. This can be achieved in 3x10 minute sessions.		
	Brisk walking for 30 minutes most days of the week		
	would be ideal		
Are there benefits in more	The duration of physical activity is more important than	II–B	
vigorous physical activity?	intensity. While moderate physical activity is recommended		
	for a health benefit, more vigorous physical activity may		
	confer additional cardiovascular health if carried out for		
	minimum of 30 minutes 3-4 times per week		
Are there dangers in vigorous	Sedentary individuals should be discouraged from	V–B	
physical activity?	undertaking sudden vigorous physical activity in favour		
	of starting with moderate activity		
What type of physical	Physical activity that does not need attendance at	V–B	
activity should I advise?	special facilities and one that the patient enjoys is likely		
	to be more successful, eg. walking, swimming, cycling		
Who should be counselled	All adults and children should be encouraged to participate	III–A	
to engage in physical activity?	in physical activity tailored to their health status and personal		
	lifestyle. The benefit from physical activity is greatest in those		
	who were previously sedentary. Adults from low SES		
	backgrounds are less likely to engage in regular physical		
	activity but are more likely to have multiple CVD risk factors		
	and benefit from physical activity		

Moderate physical activity: Activity that causes a slight, but noticeable, increase in breathing and heart rate and may cause light sweating in some people.⁴³

Vigorous physical activity: Activity that leaves you puffing and makes it difficult to talk in full sentences between breaths, ie. physical activity at a heart rate of 70–85% of maximum heart rate (MHR). MHR is calculated as 220 minus age.⁴³

The health risks of moderate intensity physical activity are low. Physical activity reduces morbidity and mortality from diabetes even without weight reduction.⁴⁵ However, certain conditions place patients at higher risk and require clinical assessment and supervision. These include:

- unstable angina
- recent complicated myocardial infarction (within 3 months)
- untreated heart failure or cardiomyopathy
- resting heart rate >100
- symptoms such as chest discomfort or shortness of breath on low exertion
- severe aortic stenosis
- uncontrolled diabetes or hypertension.

Weight reduction should involve both increased physical activity and modification of food intake (see *Section 3.2*). This should commence with moderate physical activity of 30 minutes duration per day. Regular physical activity can reduce weight or prevent weight gain. Any changes must be made in the long term.

3.5.3 Arrange

Patients may be referred to cardiac rehabilitation or physical activity programs, or classes run by local community organisations. Patients who are insufficiently active and have a chronic medical condition with complex care needs may benefit from an EPC multidisciplinary care plan.

Heartline - 1300 36 27 87

Heartline is the National Heart Foundation of Australia's telephone service. The cost is a local call from anywhere in Australia. Heartline is staffed by trained health professionals who can provide information on CVD management, nutrition and healthy eating, blood pressure, smoking cessation, and physical activity. Heartline also offers information on relevant support programs, and information booklets on a range of topics.

Accredited exercise physiologists specialising in risk stratification, clinical exercise prescription and health behaviour change management may assist patients to adopt and maintain physical activity. For referral to an exercise physiologist see the 'find an exercise physiologist' section of the Australian Association for Exercise and Sports Science (AAESS) website (www.aaess.com.au).

Further referral services can be found on page 36. Information on local physical activity programs may be available from state government and local councils and should be included in a practice directory (see *Section 4*). For example, the state departments of sport or recreation have databases of local sport and recreation organisations in each state:

Nationalwww.ausport.gov.au/ACTwww.sport.act.gov.au/New South Waleswww.dsr.nsw.gov.au/

Northern Territory www.sportandrecreation.nt.gov.au/

Queenslandwww.sportrec.qld.gov.au/South Australiawww.recsport.sa.gov.au/Tasmaniawww.osr.tas.gov.au/home.htm

Victoria www.sport.vic.gov.au/web/srv/srvsite.nsf/pages/srvhome

Western Australia www.dsr.wa.gov.au/

3.5.4 Follow up

Patients should be reviewed at 3–6 month intervals. The practice information system should generate reminders or lists of patients overdue for follow up (see page 31). Many patients find it difficult to sustain changes in physical activity especially if it is not a regular part of their daily activity.

4. Practice organisation

4.1 Introduction

Within the practice, many organisational activities can support the implementation of SNAP interventions such as:

- Recording and accessing information on patient risks (eg. searching records to identify patients for assessment or follow up of previous behavioural interventions)
- Updating and managing tools to assist in patient assessment and management within the consultation (eq. assessment tools, patient education materials and aids)
- Educating patients and carers about their risk factors and self management (eg. patient education sessions, managing access to information, practice newsletters)
- Managing referral and communication of patient information (eg. directories and reports)
- Recalling patients for follow up and help in maintaining lifestyle changes (eg. searching registers, phone and mail recall, flagging records)
- Quality improvement (eg. audit, review of existing practices).

The main barriers to implementation of SNAP at the practice level include:

- Lack of staff time (especially consultations). Assessing or intervening in a consultation for single risk factors can take 2–10 minutes
- Practice information systems not geared to support SNAP assessment and management
- Lack of organisation within the practice including a team approach to management with responsibilities shared by many providers
- Difficulty linking with, getting support from, and referring to population health services
- Lack of financial incentives or funding to pay for involvement of nonmedical staff.

These can be overcome to some extent by the development of a preventive program including:

- Setting practice priorities
- Listing what roles each practice member currently undertakes and how SNAP interventions can be integrated into existing roles and responsibilities
- Reviewing the way in which appointments and follow up are arranged
- Establishing information systems to support SNAP interventions
- Conducting ongoing quality improvement programs
- Developing links with local services (eg. health promotion services).

4.2 Setting practice priorities

The first priority is to ensure agreement that managing SNAP risk factors in all patients is a high priority practice goal. This needs to involve the practice leadership and requires commitment from the entire practice team, and will usually require a face-to-face practice meeting with the outcome being a shared model of how SNAP will work in the practice. The model can be clarified by reviewing the following questions:

- How well is the practice performing in identifying, assessing and managing the four SNAP risk factors in the practice population?
- Whose responsibility is it to do what? Who coordinates the practice management of SNAP? Are staff adequately trained in the implementation of SNAP?
- How effective and appropriate are the practice systems in supporting SNAP:
 - -the practice record and computer system
 - -patient education materials and resources in the waiting room
 - -patient education materials in the consulting rooms
 - -the appointment system
 - -the practice register and recall system
 - -the practice newsletter?
- How well does the practice link with health promotion services, self help groups and organisations such as the Heart Foundation and Cancer Council?

These may be achieved by conducting a practice inventory or even a patient survey. The issues may be discussed more informally at practice meetings. There may be opportunities to link in with the local division of general practice on SNAP activities – especially if there is a network of practice managers and/or nurses.

The next step is to draw up a practice plan. This should identify the problem or issue, how it will be dealt with, whose responsibility it is and where support, assistance or resources can be obtained to achieve it.

Example of a SNAP practice plan				
Problem or issue	Action to be taken	Person responsible	Resources or support	
Patient education materials in waiting room not up-to-date	Develop a system for regular updating and rotating materials in waiting room	Practice manager	Health promotion unit National Heart Foundation	
Some patients with CVD miss assessment and interventions	Flag patient records who have been admitted to hospital with CVD in the past 12 months for risk factor assessment	Receptionist	List of patients discharged from local hospital	
Not enough time for assessments and interventions during consultations	Longer appointments for risk factor assessment and management	Receptionist		
Don't know where to refer patients for support and activities	Directory of referral resources for SNAP to be developed for practice	Practice nurse	Division and local health promotion unit directory	
Difficulty coordinating multidisciplinary care for patients with multiple risk factors	Identify patients with multiple risk factors for assessment and development of care plan	Practice nurse (with GP involvement in care planning)	Division or local health service	

SNAP interventions can be part of a successful business model for general practice and an attractive component of practice programs encouraging patients to attend the practice. There are also a number of commonwealth programs that may help provide financial support. These include:

- The Practice Incentive Program (PIP) incentives for establishment of chronic disease register and recall systems (www.hic.gov.au/providers/incentives_allowances/pip/new_incentives.htm)
- The program to help fund practice nurses in rural practices (www.hic.gov.au/providers/incentives_allowances/pip/new_incentives/nurse_incentive.htm)
- Under Medicare, EPC care planning services attract a Medicare rebate. An EPC
 multidisciplinary care plan may only be provided to patients with at least one chronic or
 terminal medical condition AND complex care needs requiring multidisciplinary care from
 a team of health care providers including the patient's GP
 (www.health.gov.au/epc/careplan.htm) (see Appendix 2).

4.3 Roles and responsibilities

The roles and responsibilities for SNAP need to be shared among members of the practice team. Key roles for GPs include:

- leadership within the practice confirming the importance of SNAP interventions
- identifying patients for risk assessment opportunistically
- conducting assessments of the risk factors and readiness to change, and
- providing brief interventions especially behavioural counselling and risk assessment.

Key roles for the practice manager or receptionist may include:

- managing the practice information system including monitoring and reporting the quality of recording
- the development of a recall and reminder system practice protocol which addresses privacy issues and patient consent (see Federal Office of Privacy Commissioner website: www.privacy.gov.au/ and CGPIS website: www.commed.unsw.edu.au/cgpis)
- ensuring patient education resources are available and up-to-date both in the consulting rooms and waiting room
- including SNAP material in the practice newsletter
- managing the directories and referral communications to and from the practice
- setting up and maintaining systems for patient recall and reminders, and
- managing appointments for GP, nurse, special education programs.

Key roles for the practice nurse include:

- education and informing patients either individually or in groups
- identifying SNAP risk factors that can be incorporated into plans for the care of the patient, eg. assessment and management goals for patients with CVD
- following up patients by phone, mail, visits or recall
- ensuring the practice has appropriate tools available to conduct assessments and management
- providing a link with self help and other community organisations
- quality improvement, and
- working with other services to reach disadvantaged groups and linking the practice's work with population health programs.

Staff may require training to perform these roles. Training may be available through local divisions of general practice, as well as courses and programs run by tertiary institutions, the National Heart Foundation and Cancer Councils.

4.4 Managing access

The appointments system should facilitate the assessment and management of SNAP risk factors. Additional time may need to be spent with a patient who is having a SNAP assessment. Special individual or group education sessions may need to be arranged for other practice staff. Reminders may also be required for patients to book a follow up visit. Electronic scheduling systems need to be sufficiently flexible to allow this to occur.

Patient name	Further visit date	Education session with nurse	Reminder for follow up visit

4.5 Information management and systems

4.5.1 Record and register systems

Information systems can minimise time spent accessing and sorting information. A practice register should be able to generate lists of high risk patients for recall and identify patients overdue for follow up for reminders. Computerised prompts can also remind the GP during the consultation that the risk factors need to be reviewed. Computer based systems have been demonstrated to improve the quality of preventive care delivered in the primary care setting. 46,47

A practice register is a complete and ordered list of patients. It should contain the patient's name, gender, date of birth, address, phone number and reason for being on the register and the dates of visits. For SNAP, the register should contain patients known to have CVD, eg. have had a myocardial infarct, unstable angina, stroke, other vascular disease, hypertension, diabetes, or hyperlipidaemia. Local divisions of general practice may be able to provide assistance in setting up a practice register and/or involving the practice in a division wide register.

Recall should invite a patient to return to the practice for a GP consultation, specifying the purpose of the visit, eg. review of smoking cessation. The Health Insurance Commission has advised that recall is appropriate for follow up of an existing problem or for preventive care.

Patient held records can help patients to take a more active role in their own health and monitor their progress. They can also act as vehicles for communication when patients move between different health care providers.

4.5.2 Risk assessment tools

Absolute risk assessment tools can provide an estimate or the likelihood of a cardiovascular event. There are several computerised versions of these tools. The best allow all four SNAP risk factors to be considered, as well as BP, lipids, family history, and conditions such as diabetes. The risk information can be useful in helping to motivate patients to make a lifestyle change as well as to decide whether certain interventions are warranted (eg. referral to a dietician, prescription of buproprion).

A number of websites provide absolute vascular risk assessment tools including:

- a downloadable tool at: www.htl.com.au/downloadsaus.html
- an online calculator at: www.riskscore.org.uk/calculator.html
- a number of more sophisticated but inexpensive tools at: www.absoluterisk.com.

A physical activity module that incorporates an assessment of physical activity, provides prompts and produces a physical activity prescription has been incorporated into some general practice software programs.

4.5.3 Patient education materials

Consulting room materials

Patient education materials that are handed to the patient directly by the GP or practice nurse will have particular impact. These should ideally be stored on computers used in the consulting rooms. These materials should be tailored to the:

- patient's language
- patient's health problems (eg. existing CVD)
- patient's readiness to change.

They should also be evidence based and provide a balanced approach to the problem. Some of the material produced by commercial interests gives undue emphasis on a particular treatment or product. The physical activity prescription is a useful tool both in summarising what action the GP and the patient have agreed to as an education tool on how physical activity goals can be achieved, and to facilitate referral to activity programs. This is now available in some general practice clinical software programs.

Waiting room materials

The waiting room is an important place for patients to access health information. Material left in the waiting room can act as a prompt for patients to raise issues with the GP or other practice staff. Waiting room materials, including posters, may be available from local divisions of general practice, health promotion units of state health departments, and nongovernment organisations such as the National Heart Foundation, Diabetes Australia, Cancer Councils and other key groups (eg. Nutrition Australia).

Leaflets should be clear, simple and unbiased. They should, if possible, be available in the languages which patients attending the practice speak. They need to be replenished periodically (ie. about every 3–6 months).

Posters are an important way of alerting patients to behavioural risk factors and the fact that the GP may be able to help. However, posters need to be rotated regularly. A poster that is left in the practice for years will become invisible. Video materials are also available and can be played in the waiting room.

A practice notice board can provide information about self help groups and local programs, as well as contact information for patients to self refer. It is important to keep the notice board up-to-date. Some practices now provide computer terminals in the waiting room for patients to access patient education material from selected websites.

Practice newsletter

A practice newsletter may be a useful way of informing patients about preventive issues. These should regularly contain information about the SNAP risk factors and strategies patients can use to reduce their risk.

Recommended websites

An increasing amount of information and educational materials is available on the world wide web. Many patients will have previously accessed this information or will do so after visiting the practice. Therefore, it is important to recommend websites that provide unbiased and evidence based information. One such website is 'Healthinsite' conducted by the Australian Government Department of Health and Ageing (www.healthinsite.gov.au).

4.5.4 Referral information

A directory of referral information needs to be readily available in the practice. This should include:

- counselling and self help groups for smoking cessation (in addition to Quitline)
- dietician referral information
- drug and alcohol counsellors and self help groups, and
- local programs and services for physical activity (eg. walking groups).

It should also include more specialised services such as diabetes services and cardiac rehabilitation services.

Many divisions of general practice have employed allied health workers such as dieticians and educators to support practices offering SNAP interventions (as part of the More Allied Health Services [MAHS] program).

4.6 Quality improvement

Quality improvement activities need to be assigned as the responsibility of at least one member of staff. This may be the practice manager or nurse. In order to assess if the practice is performing adequately, it is important to assess how frequently:

- · patients' risk factors are assessed
- patients are offered brief interventions
- patients are referred to various referral services.

It may also be important to determine if these result in any change in patient behaviour. This can be evaluated by conducting:

- an audit of medical records, or
- a patient survey.

Auditing computerised records can be difficult depending on the software being used and the extent to which the information is recorded in a structured way. This is relatively easy for patients with diabetes, as most general practice software contains special modules for patients with diabetes. Other groups of patients may be identified from prescribing records (eg. patients on antihypertensive or lipid lowering drugs). Information on SNAP risk factors may be listed in various parts of the computerised record.

Conducting a patient survey is another approach - asking patients who have received SNAP interventions to provide some feedback on how helpful they found the support provided by the practice. Either of these may have privacy implications. The office of the Privacy Commissioner website (www.privacy.gov.au/) and The Handbook For The Management of Health Information in Private Medical Practice can be downloaded from the RACGP website (www.racgp.org.au).

4.7 Linkages

Providing effective behavioural interventions in general practice requires support from a number of sources. Public health, primary health care or community health services, organisations such as the Heart Foundation and Cancer Councils local self help groups, and local government can help by providing the practice with:

- education and information materials
- information systems
- outreach programs and community education
- referral services or programs.

Local divisions of general practice may also be able to help with these, and with training for practice staff in what is available. Establishing and maintaining these links may be made easier by designating a member of the practice who has main responsibility for liaison with these other services.

5. Resources and further reading

5.1 Guidelines

RACGP. Guidelines for preventive care in general practice (2002):

www.racgp.org.au/document.asp?id=4169

RACGP. Sharing health care guidelines. Chronic condition self management guidelines (2002):

www.racgp.org.au/document.asp?id=611

RACGP. Handbook for the management of health information in private medical practice:

www.racgp.org.au/document.asp?id=6528

National Heart Foundation and Cardiac Society Lipid guidelines. A guide to risk reduction for patients with or at risk of CVD: www.heartfoundation.com.au/prof/index_fr.html

A guide to motivational interviewing – NSW Drug Programs Bureau: www.health.nsw.gov.au/public-health/dpb/professionals.htm

5.1.1 Smoking

NSW Drug Programs Bureau: A guide to smoking cessation: www.health.nsw.gov.au/public-health/dpb/professionals.htm

National Heart Foundation: Effects of smoking and quitting:

www.heartfoundation.com.au/heart/index_fr.html

NSW Health Promotion: A guide for management of nicotine dependent patients:

www.health.nsw.gov.au/public-health/health-

promotion/pdf/Tobacco/Nicotine Dependent In patient.pdf

Zwar N, Richmond R, Borland R. Smoking cessation guidelines for Australian general practice:

www.health.gov.au/pubhlth/publicat/document/smoking_cessation.pdf

5.1.2 Overweight and obesity

NHMRC: Clinical practice guidelines for the management of overweight and obesity in adults:

www.obesityguidelines.gov.au

NHMRC: Clinical practice guidelines for the management of overweight and obesity in

children and adolescents:

www.obesityguidelines.gov.au

5.1.3 Nutrition

Dietary guidelines for Australian adults, children and adolescents:

Dietary guidelines for older Australians (1999):

www.nhmrc.gov.au/publications/synopses/n23syn.htm

www.nhmrc.gov.au/publications/synopses/dietsyn.htm

Australian guide to healthy eating (1998):

www.health.gov.au/pubhlth/strateg/food/guide/index.htmNutrition

Nutrition Australia provides consumer information:

www.nutritionaustralia.org

Dietitians Association of Australia: www.daa.asn.au

5.1.4 Alcohol

The Australian alcohol guidelines: health risks and benefits (2001):

www.alcoholguidelines.gov.au/resources.htm

Treating alcohol problems: guidelines for general practitioners: www.health.gov.au/pubhlth/publicat/document/alc_treatinggp.pdf

A guide to the assessment and treatment of alcohol in general practice:

www.health.nsw.gov.au/public-health/dpb/professionals.htm

NSW Drug and Alcohol Multicultural Education Centre provides resources for the management of alcohol, tobacco and other drug treatment for patients of different cultures:

www.damec.org.au

The National Alcohol Strategy:

www.nationaldrugstrategy.gov.au

5.1.5 Physical activity

National physical activity guidelines for Australians: www.health.gov.au/pubhlth/publicat/document/physguide.pdf

National Heart Foundation physical activity guidelines: www.heartfoundation.com.au/prof/index_fr.html

The GP Physical Activity Project newsletter 'Getting Australia active':

www.nphp.gov.au/sigpah

5.2 Patient education, nonpharmacological scripts

A number of patient education resources and materials for each of the SNAP risk factors can be accessed at: www.healthinsite.gov.au/

National Heart Foundation patient education information resources: www.heartfoundation.com.au/heart/index_fr.html

Enhanced Primary Care Medicare items: www.health.gov.au/epc

5.3 Specific organisations

Guidelines and patient education resources for patients with specific conditions

National Heart Foundation of Australia: www.heartfoundation.com.au

Diabetes Australia: www.diabetesaustralia.com.au

National Stroke Foundation: www.strokefoundation.com.au/

Australian Kidney Foundation: www.kidney.org.au/

Cancer Council Australia: www.cancer.org.au/default.cfm

5.4 Estimation of cardiovascular risk

The tables in *Appendix 4* were adapted from: *Recommendations for the prevention of coronary heart disease in clinical practice*. The European Societies of Cardiology, Artherosclerosis and Hypertension.

How to use the colour charts

PROGNOSIS: To estimate a person's absolute 5 year risk of a cardiovascular event (new angina, MI, CHD death, stroke or TIA), find the colour block which best describes your patient's:

- gender
- age
- smoking
- diabetes status (on insulin, oral hypoglycaemics, or fasting blood glucose >8.0 mmol/L reflotron or laboratory measurement)
- BP (mean of two readings on two occasions sufficient for assessing risk but not for establishing pretreatment baseline)
- total cholesterol/HDL ratio (mean of two nonfasting reflotron measurements or one laboratory measurement sufficient for assessing risk but not for establishing pretreatment baseline).

All patients with symptomatic CVD (including angina, MI, CHF, stroke, TIA PVD) or ECG diagnosed LVH are assumed to have a CVD risk greater than 20% in 5 years. Patients with a strong family history of CVD (first degree relative: male with CVD before 55 years, female before 65 years) or obesity (BMI of 30 kg/m² or more) are likely to be at greater risk than the tables indicate – consider increasing one colour category. Read off 5 year risk from colour code in key to table.

5.5 Short training courses

Check the RACGP website (www.racgp.org.au), GPEA (www.gpea.org.au) and your local division of general practice for information about training programs for general practice staff. For more information on alcohol and drug training see the NCETA website (www.nceta.flinders.edu.au). A number of short courses and certificate courses on drug and alcohol, patient education, nutrition and physical activity are available through tertiary institutions including the following:

ACT

Canberra Institute of Technology Telephone 02 6207 4916 Email satch.campbell@cit.act.edu.au

New South Wales

Hunter Institute of TAFE
Telephone 02 4923 7222
Fax 02 4923 7779
www.hunter.tafensw.edu.au/default.htm

Illawarra Institute of TAFE
Telephone 02 4222 2908
Fax 02 4226 4748
www.illawarra.tafensw.edu.au/default.htm

Newcastle University Telephone 02 4921 8695 Email postgrad-MHS@newcastle.edu.au

North Coast Institute of TAFE Telephone 02 6773 7700 www.nci.tafensw.edu.au

Northern Sydney Institute of TAFE Telephone 02 9942 0500

Riverina Institute of TAFE
Telephone 02 6938 1444
Email ritcourseinformation@det.nsw.edu.au

University of Sydney, Cumberland Campus Telephone 02 9351 9343 Email c.james@fhs.usyd.edu.au

University of Western Sydney Telephone 02 4736 0019 Email k.lambert@uws.edu.au

Western Institute of TAFE Telephone 6338 2424 www.wit.tafensw.edu.au

Northern Territory

Batchelor Institute of Indigenous Tertiary Education Telephone 08 8939 7345 Email anne.davies@nt.gov.au

Northern Territory University Casuarina Campus Telephone 08 8922 6101 Email bonita.moss@ntu.edu.au

Queensland

Barrier Reef Institute of TAFE Telephone 1300 1300 84 Email barrier.reef@det.qld.gov.au

Bremer Institute of TAFE (QLD) Telephone 07 3817 3000 Email bundamba.bremer@tafe.net

Gold Coast Institute of TAFE (QLD) Telephone 07 5581 8300 Email enrolments.gcit@det.qld.edu.au

North Point Institute of TAFE (QLD)
Telephone 07 3880 2233
Email northpoint.enrolments@detir.qld.gov.au

Tropical North Institute of TAFE (QLD) Telephone 1300 656 959 Email info.tnqit@detir.qld.gov.au

University of Queensland Telephone 07 33655189 Email qadrec@sph.uq.edu.au/ j.najman@sph.uq.edu.au

South Australia

Flinders University
Telephone 08 8204 4698
Email melissa.raven@flinders.edu.au

Flinders University, Sturt Campus Telephone 08 82015226 Email charlotte.decrespigny@flinders.edu.a

Douglas Mawson Institute of TAFE (SA) Telephone 08 8303 2617 Email fiontrem@dmi.tafe.sa.edu.au

Spencer Institute of TAFE (SA) Telephone 08 88234 6602 Email msaunders@arts.com.au

Victoria

Chisholm Institute of TAFE (Victoria) Telephone 1800 444 220 Email enquiries@chisholm.vic.edu.au

Deakin University Telephone 03 92446854 Email adelbian@deakin.edu.au

Goldburn Ovens TAFE
Telephone 1300 733 111
Email blee@gotafe.vic.edu.au
Swinburne University of Technology
Telephone 03 9214 8370
Email Joan.Cashion@groupwise.swin.edu.au

Turning Point
Telephone 03 8413 8413
Email E&Tinfo@turningpoint.org.au

University of Ballarat Telephone 03 5327 8250 Email p.kinnersly@ballarat.edu.au

Western Australia

Central TAFE Telephone 1300 300 822 Email study@tiwa.com.au

CYO'Connor Institute of TAFE Telephone 08 9622 3905 Email cyono@northam.training.wa.gov.au

East Pilbara Institute of TAFE Telephone 08 9158 9400 Email s_servs@hedland.edu.au

Midland College of TAFE Telephone 08 9274 9203 Email exstu@midland.training.wa.gov.au

South East Metropolitan College of TAFE Telephone 08 9780 7070 Email Info.Centre@semc.wa.edu.au

University of Western Australia Telephone 03 9346 2280 Email ghulse@cyllene.uwa.edu.au

West Coast College of TAFE
Telephone 08 9325 7791
Email kaydeb@west_coast.training.wa.gov.au

6. References

- 1. Britt H, Miller GC, Knox S, et al. General practice activity in Australia 2002–2003. AIHW Cat No GEP 14. Canberra: AGPS, 2003.
- Sayer GP, Britt H, Hom F, et al. Measures of health and health care delivery in general practice in Australia.
 AlHW Cat. No. GEP 3. Canberra: AGPS, 2000.
 Australian Bureau of Statistics. National Health
- Survey, Smoking 1989–1990. Canberra: ABS, 1992. 4. Lopez PR, Boreham J, et al. Morbidity from
- smoking in developed countries 1950–2000. Oxford: CIRF and WHO. London: Oxford University Press, 1994.
- 5. English DR, Holman CDJ, Milne EF, et al The quantification of drug caused morbidity and mortality in Australia. Commonwealth Department of Health and Human Services. Canberra: AGPS, 1995.
- 6. Ridolfo B, Stevenson C. the quantification of drug caused morbidity and treatment in Australia, 1998. Drug Statistics Series No 7. Canberra: AIHW, 2001. 7. World Health Organisation. The optimal duration of exclusive breastfeeding: results of a WHO systematic review. Note for the press No. 7, 2 April 2001. Available at: http://www.who.int/inf-pr-2001/en/note2001–07.html.
- 8. Australian Institute of Health and Welfare. The burden of disease and injury in Australia. Canberra: AIHW, 2000.
- 9. Magarey AM, Daniels LA, Boulton T, John C. Prevalence of overweight and obesity in Australian children and adolescents: reassessment of 1985 and 1995 data against new standard international definitions. Med J Aust 2001;174:561–564.
- 10. Roche AM. The shifting sands of alcohol prevention: rethinking population control approaches. Aust NZ J Public Health 1997;21:621–625.
- 11. Stephenson J, Bauman A, Armstrong T, Smith B, Bellew B. The costs of illness attributable to physical inactivity. Canberra: Commonwealth Department of Health, 2000.
- 12. Mathers C. Health differentials among adult Australians aged 25–64 years. Canberra: AGPS, 1994. 13. Bennett SA. Cardiovascular risk factors in Australia: trends in socioeconomic inequalities. J Epidemiol Comm Health 1995;49:363–372. 14. Harris MF, Furler J. How can primary care

- increase equity in health? NSW Public Health Bulletin 2002;13:35–38.
- US Department of Health and Human Services.
 Smoking cessation. Clinical Practice Guideline
 Number 18, 1996.
- 16. Prochaska JO, Di Clemnete CO. Towards a comprehensive model of change. In: Miller WR, Heather N, eds. Treating addictive behaviours: processes of change. New York: Plenum, 1986;3–27. 17. The Tobacco Use and Dependence Guideline Panel SaCR. A clinical practice guideline for treating tobacco use and dependence. Australian Public Health Service Report. JAMA 2000;238:3244–3254. 18. Higgins K, Cooper-Stanbury M, Williams P. Statistics on drug use in Australia 1998. Canberra: AIHW, 1999.
- 19. Hill DJ, White VM, Scolio MM. Smoking behaviours of Australian adults in 1995: trends and concerns. Med J Aust 1998;168:209-213. 20. Heatherton TF. Kozlowski LT. Frecher RC. Fagerson KO. The Facerstrom test for nicotine dependence: a revision of the Fagerstrom Tolerance Questionnaire. Br J Addiction 1991;86:1119-1127. 21. Fiore MC, Bailey WC, Cohen SJ, et al. Treating tobacco use and dependence: clinical practice guideline. Rockville (MD): US Department of Health and Human Services, Public Health Service, 2000. 22. Miller M, Wood L. Smoking cessation interventions: review of evidence and implications for best practice in Australian health care settings. Canberra: Commonwealth of Australia, August 2001. 23. Ashenden R, Silagy C, Weller D. A systematic review of the effectiveness of promoting lifestyle change in general practice. Fam Pract 1997;14:160-176. 24. Wynn A, Coleman T, Barrett S, Wilson A. Factors associated with the provision of anti-smoking advice in general practice consultations. Br J Gen Pract 2002;52:997-999.
- 25. He J. Passive smoking and the risk of coronary heart disease: a meta-analysis of epidemiologic studies. N Engl J Med 1999;340:920–926.
 26. World Health Organisation. Report on passive smoking and children. Geneva: WHO: 2000.
 27. Zwar N, Richmond R, Borland R. Smoking cessation guidelines for Australian general practice.
 Canberra: Australian Government Department of

Health and Ageing, 2004.

- 28. World Health Organisation. Obesity: preventing and managing the global epidemic. Report of a WHO consultation. WHO Tech Rep Ser 2000;894: 1-xii,1–253.
- 29. National Health and Medical Research Council.

 Overweight and obesity in adults and in children and adolescents: a guide for general practitioners.

 Canberra: NHMRC, 2003.
- 30. Steptoe A, Perkins-Porras L, McKay C, Rink E, Hilton S, Cappuccio FP. Behavioural counselling to increase consumption of fruit and vegetables in low income adults: randomised trial. BMJ 2003;326:855–857.

 31. Miller M, Pollard C, Paterson D. A public health nutrition campaign to promote fruit and vegetables in Australia. In: Worsley A, ed. Multidisciplinary approach to food choice. Proceedings of Food Choice Conference, Adelaide 1993. University of Adelaide, 1993.
- 32. United States Preventive Services Task Force. Guide to clinical preventive services. 2nd edn. Baltimore: Williams and Wilkins, 1996. Available at: http://www.odphp.osophs.dhhs.gov.pubs.GUIDECPS /tcpstoc.htm
- 33. Ammerman AS, Lindquist CH, Lohr KN, Hersey J. The efficacy of behavioural interventions to modify dietary fat and fruit and vegetable intake: a review of the evidence. Prev Med 2002;35:25–41.
- 34. National Health and Medical Research Council. Food for health: dietary guidelines for Australian adults. Canberra: NHMRC, 2003.
- 35. National Health and Medical Research Council. Clinical practice guidelines for the management of overweight and obesity in children and adolescents. Canberra: NHMRC, 2003.
- 36. National Heart Foundation of Australia and The Cardiac Society of Australia and New Zealand. Lipid management guidelines. Med J Aust 2001;175:S57–S88.
- 37. National Health Committee. Guidelines for recognising, assessing and treating alcohol and cannabis abuse in primary care. Wellington, NZ: 1999.
- 38. National Health and Medical Research Council.
 Australian alcohol guidelines: health risks and benefits. Canberra: NHMRC. 2001.
- 39. National Health and Medical Research Council. Guidelines preventive interventions in primary health care: cardiovascular disease and cancer. No. 6.

- Alcohol overuse. Canberra: NHMRC, 1996.
 40. Pate RR, Pratt MP, Blair SN, et al. A recommendation from the Centers for Disease Control and American College of Sports Medicine. Physical activity and public health. JAMA 1995:273:4027.
- 41. National Heart Foundation of Australia (NHFA). Physical Activity Policy. National Heart Foundation online: www.heartfoundation.com.au. Accessed May 2000.
- 42. Diabetes Prevention Program Research Group. Reduction in the incidence of type 2 diabetes with lifestyle intervention or metformin. N Engl J Med 2002;346:393–403.
- 43. Active Australia. National physical activity guidelines for Australians. Canberra:

 Commonwealth Department of Health and Aged Care, 1999.
- 44. Smith BJ, Bauman AE, Bull FC, Booth ML, Harris MF. Promoting physical activity in general practice: a controlled trial of written advice and information materials. Br J Sports Med 2000;34:262–267.
- 45. Boulé NG, Haddad E, Kenny GP, Wells GA, Sigal RJ. Effects of exercise on glycaemic control and body mass in type 2 diabetes mellitus: a meta-analysis of controlled clinical trials. JAMA 2001;286:1218–1227.
- 46. Shea S, DuMouchel W, Bahamonde L. A metaanalysis of 16 randomised controlled trials to evaluate computer based clinical reminder systems for preventive care in the ambulatory setting. J Am Med Informat Assoc 1996;3:399–409.
- 47. Johnston ME, Langton KB, Haynes RB, Mathieu A. Effects of computer based clinical decision support systems on clinician performance and patient outcome. A critical appraisal of research. Ann Intern Med 1994;120:135–142.

Appendix 1. Grading of evidence and recommendations

Level	Explanation
I	Evidence obtained from a systematic review of all relevant randomised controlled trials
II	Evidence obtained from at least one properly designed randomised controlled trial
III	Evidence obtained from any of the following:
	• well designed pseudo randomised controlled trials (alternate allocation or some other method)
	• comparative studies with concurrent controls and allocation not randomised (cohort studies), case control studies, or interrupted time series with a control group
	• comparative studies with historical control, two or more single arm studies, or interrupted time series without a parallel control group
IV	Evidence obtained from case series, either post- or pre-test and post-test
V	Opinions of respected authorities, based on clinical experience, descriptive studies or reports of expert committees
No evidence	After thorough searching no evidence was found regarding recommendations in general practice for the target disease or condition
Strength of I	recommendation
Strength	Explanation
А	There is good evidence to support the recommendation
В	There is fair evidence to support the recommendation
С	There is poor evidence regarding the inclusion or exclusion of the recommendation but recommendations may be made on other grounds
D	There is fair evidence against the recommendation
E	There is good evidence against the recommendation

The levels of evidence are adapted from the NHMRC. A guide to the development implementation and evaluation of clinical practice guidelines, 1998.

The strength of recommendation coding scheme is adapted from the US Preventive Services Task Force *Guide to clinical preventive services*, 1996.

Appendix 2. SNAP care plan (example)

Page 1

For patients who meet EPC care planning eligibility requirements

GP prepares 720 √ PATIENT NAME Peter DOB 14 Jun 1951 Name & contact details if carer NA Interpreter required Yes √ No √ Language Required No		GP review 724 √ Medical Practitioner Dr James Brown Male √ Female √ Medical record/file No. G7845 27/07/90
CARE PLAN HISTORY		
Is there a current care plan in existence? Y √ N √		If so, by whom?
Is the patient eligible under Veterans' Affairs NO		Date If yes, please ensure this form is available on request from DVA
is the patient engine under veterans. Analis NO		if yes, please ensure this form is available on request from DVA
Problem list (COMPLETE MEDICATION F Principal diagnoses (chronic conditions)	REVIEW SHEE	T SEPARATELY IF APPROPRIATE) Needs expressed by patient and carer or GP (medical, social, psychosocial)
Ischaemic heart disease		Unstable chest pain
Overweight		Irregular eating habits/ poor diet. Lack of physical activity
Smoking		Desire to quit
High blood pressure		Under control
Dyslipidaemia		Low fat diet
HEALTH PROVIDERS/SERVICES INVOLV	ED IN PATIEM Current	T"S CARE Others likely to assist
Dietitian		Heart Foundation of Australia
Smoking cessation program		Local walking program
Cardiac rehabilitation		
Cardiologist		
My GP has explained the purpose of the care plan and I give/my carer gives permission to prepare a care plan and discuss my medical history and diagnosis with the providers listed.	Y√N√	Note any medical or personal information patient wants withheld from others
I do/do not have any medical or other information I want withheld from other participants.	$Y \sqrt{N} $	
All participants to retain confidentiality.	$Y \sqrt{N} \sqrt{N}$	
I am aware that there is a fee for the preparation of this care plan and a Medicare rebate will be payable.	Y√N√	
Has a needs assessment (biopsychosocial) been completed?	Y√N√	If no, appointment for needs Date / / assessment has been set for Time

SNAP care plan (example)

Page 2

Care provider	OVIDERS ON THIS TEAM Type of care	Contact No.	Repo	rt
			Summary	Full
Justin	Education on lifestyle factors, physical activity program,	9666 7654		$\sqrt{}$
(cardiac rehab program)	involvement of other family members			
Jennifer (dietitian)	Nutritional assessment and meal planning advice	9666 4563		$\sqrt{}$
Allan (cardiologist)	Assessment of ischaemic heart disease (angiography)			
	and review of management	9765 4539		$\sqrt{}$
*Provider responsible for o	distributing report to carer team and patient.			

Multidisciplinary needs

Need Overweight Raised cholesterol	Goal Aim for BMI <27, lose 5 kg weight in 2 months Aim for: Cholesterol <4.0 LDL cholesterol <2.5 HDL cholesterol >1.0 Triglyceride <2 mmol/L Aim for waist circumference 94 cm	Tasks * Meal plan - regular meals, reduce saturated fat, increase veg & fibre, reduce alcohol, use food diary, info sheets + appointments. * Increase physical activity, start walking daily building up to 45 mins most days. Pedro to look at fun/social ways to be more physically active	Providers Peter Joanne (Peter's wife) Justin (cardiac rehab) Jennifer (dietitian) James (GP)	Review 2 weeks
Raised BP	BP <130/85	* Medication review 2 weeks after start plan * BP check every GP visit	James	2 weeks
Tidlood Bi	21 (100/00	Br Grook every ar viole	Allan (cardiologist)	2 *************************************
Smoking	Stop	* Provision of advice and information * NRT * Referral to QUIT program	James QUITLINE	2 weeks
Reduce alcohol intake	<21 units week	* Discussions with James * Monitor mood * Monitor for medication problems, check bloods (UAC & LFTs)	James	2 weeks
Chest pain (ischaemic	Reduce pain	* Assessment and angiography	Allan (cardiologist)	6 weeks
heart disease)	Reduce anxiety Prevent infarction	* Review management		
Review date for whole p Copy of plan provided to	patient: $\sqrt{}$		Date:	

^{*} Note: For EPC purposes, the review of a care plan (Item 724) can be performed 3 months after a care plan has been instituted and, if this review is to be claimed as an EPC care plan, it must be done in collaboration with all other members of the EPC multidisciplinary care plan team; if the review is undertaken by the GP alone it should be claimed as a normal consultation item (see: www.health.gov.au/epc/pdf/exphlth.pdf)

Appendix 3. Practice SNAP inventory

Patient education materials

1. If your practice has patient education materials concerning smoking, nutrition, alcohol and physical activity, please tick which types:

	Pamphlet/ booklet	Computerised leaflet	Posters	Videos	Other
Smoking					
Nutrition					
Alcohol					
Physical activity					
	•			•	

2. What proportion of your patients from culturally and linguistically diverse backgrounds are able to read and/or understand the patient education materials? (tick)

Type of materials:	All	Most	Some	Few	Don't know
Smoking					
Nutrition					
Alcohol					
Physical activity					

3. How frequently do you think patient education resources in the waiting area and consulting room are used by patients? (tick)

Area of practice	Very frequently	Frequently	Sometimes	Rarely	Don't know
Waiting area					
Consulting room					

	SNA	NP Smoking	g, Nutrition	, Alcohol and Phys	ical activity		
	4. Wł	nat can be d	lone to ma	ake them more us	eful?		
	5. Ho	w often do	you provi	de verbal advice to	o your patients co	ncerning the fou	ır risk
	facto	r areas?					
		Very freq	uently	Frequently	Sometimes	Rarely	Don't know
Smoking							
Nutrition							
Alcohol							
Physical activity							
			d educatio	n or training in th	e clinical manage	ment of these fo	our risk
	facto Smok	r areas?	☐ Yes	□No			
	Nutrit	_	Yes	□ No			
	Alcoh	ol use	Yes	☐ No			
	Physi	cal activity	Yes Yes	☐ No			
	5.2 W	ould you li	ke additio	nal education or tr	aining on these fo	our risk factor ar	eas?
	Smok		Yes	☐ No			
	Nutrit	ion	Yes	☐ No			
		ol use	Yes	□ No			
	Physi	cal activity	Yes	☐ No			
	5.3 W	/hat form w	ould you l	ike this training to	take? (tick all tha	at apply)	
			Semi			Workshops	
				nuous professional c	_	Lunch time case	studies
				study learning mater	_	Practice visits	
				l group discussion s er:		Courses	
	46						

A	la a a l # la			la a la accidación de la	ما سام	f+	:		
A population	neaitn	guiae	το	benaviourai	risk	tactors	ın	generai	practice

6. How frequently do you offer referral to your patients for the following?

	Never	Sometimes	Often	Very often	Not sure
Smoking cessation					
Nutritional counselling					
Alcohol management					
Physical activity programs					

6.1 How easy is it to find patient services to refer to for the following?

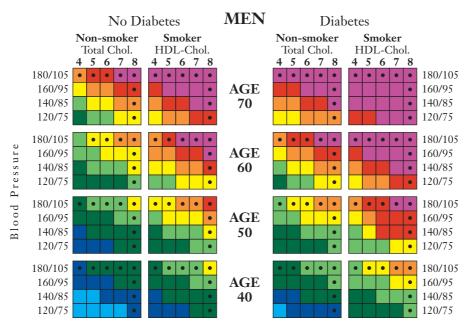
	Very difficult	Difficult	Relatively easy	Very easy	No sure
Smoking cessation					
Nutritional counselling					
Alcohol management					
Physical activity programs					

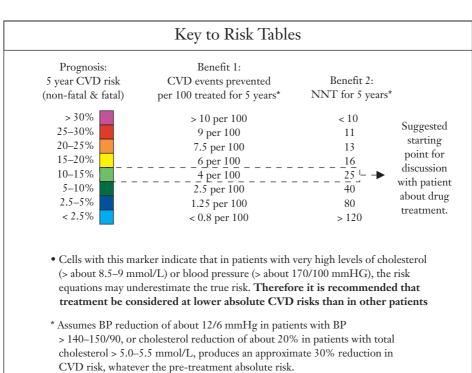
6.2 Do you have access to a directory of local and community services relating to the four risk factors?					
Smoking	Yes	☐ No			
Nutrition	Yes	☐ No			
Alcohol use	Yes	No			
Physical activity	Yes	☐ No			

SNAP Smoking, Nutrition, Alcohol and Physical activity

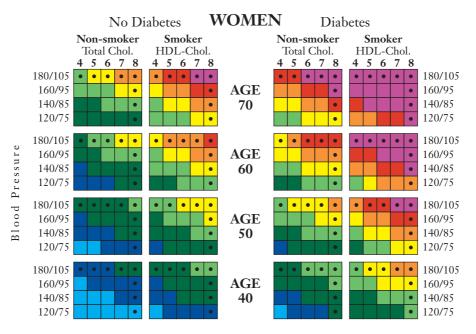
Notes	
	_
	_
	_
	_
	_
	_
	_
	_

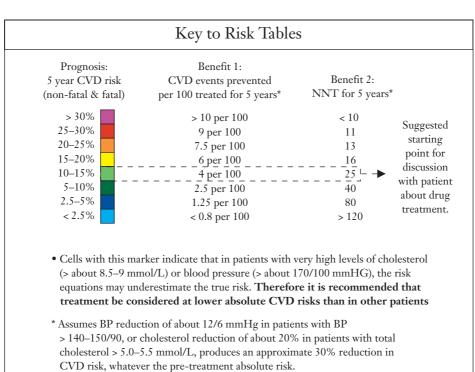
Appendix 4. Estimation of cardiovascular risk





Appendix 4. Estimation of cardiovascular risk





Estimation of cardiovascular risk

Colour charts to estimate a person's absolute 5 year risk of a cardiovascular event

