Appendices

Appendix A: MBS Item 717 (45-49 year old health check) item descriptor

Appendix B: A flowchart of patient recruitment and data collection

Appendix C: Pre-visit practice details form

Appendix D: Clinician survey

Appendix E: Clinician semi-structured interview schedule

Appendix F: Patient survey

Appendix G: Brief report from a sub-study on GP decision making on SNAP risk factors

Appendix H: Health check template for medical software

Appendix I: GP characteristics

http://www9.health.gov.au/mbs/fullDisplay.cfm?type=item&q=717&qt=item

Medicare Benefits Schedule - Item 717

View Associated Notes

Category 1 - ATTENDANCES

717

45 YEAR OLD HEALTH CHECK

Attendance by a medical practitioner (including a general practitioner but not including a specialist or consultant physician) **AT A PLACE OTHER THAN A HOSPITAL** to undertake a health check for a patient between the age of 45 and 49 (inclusive) at risk of developing a chronic disease.

Benefits are payable on **one** occasion only for each eligible patient.

Fee: \$102.20 **Benefit:** 100% = \$102.20

(See para A.28 of explanatory notes to this Category)

<Pre><Previous - Item 716 Next - Item 718>

Associated Notes

Category 1 - ATTENDANCES

A.28

45 Year Old Health Check (Item 717)

A.28 45 YEAR OLD HEALTH CHECK (Item 717)

The purpose of this item is to support general practitioners (GPs) to focus on the health needs of their patients around 45 years of age who are at risk of developing a chronic disease. The aim of the health check is to assist with detection and prevention of chronic disease and enable early intervention strategies to be put in place where appropriate.

Eligible Population

A.28.1 The health check is targeted at people who are between 45 and 49 years of age (inclusive) who are at risk of developing a chronic disease.

Risk Factors

- A.28.2 A patient must be at risk of developing a chronic disease. A chronic disease or condition is one that has been or is likely to be present for at least six months, including but not limited to asthma, cancer, cardiovascular illness, diabetes mellitus, mental health conditions, arthritis and musculoskeletal conditions.
- A.28.3 The decision about whether an individual is at risk of developing a chronic disease rests with the clinical judgement of the GP, but a specific risk factor must be identified. Factors that the GP may consider include, but are not limited to:
- · lifestyle risk factors, such as smoking, physical inactivity, poor nutrition or alcohol misuse;
- biomedical risk factors, such as high cholesterol, high blood pressure, impaired glucose metabolism or excess weight; or
- · family history of a chronic disease.
- A.28.4 Where possible, practices are encouraged to identify whether a patient is at risk of developing a chronic disease through normal patient management and examination of patient records.
- A.28.5 In circumstances where the GP is unsure whether the patient is at risk of developing a chronic disease, for example, because the patient is new to the practice, the GP may choose either to:
- determine whether the patient has a risk factor and, if so, undertake the health check in the same visit (billed under item 717); or
- determine whether the patient has a risk factor as part of a consultation (billed under the appropriate attendance item) and, if so,+

undertake the health check during a subsequent visit (billed under item 717).

If the patient does not have a risk factor, the appropriate attendance item would be billed.

Limits

- A.28.6 A Medicare rebate is payable for this item only once for any eligible patient. This item is not an annual health check.
- A.28.7 If a GP is unsure whether a patient has already received this service, they may call Medicare Australia, with the patient present, on 132 011.
- A.28.8 The item does not apply to admitted patients of a hospital.

Eligible practitioners

- A.28.9 This item can be claimed by a medical practitioner, including a general practitioner but not including a specialist or consultant physician. In these notes, the term "GP" is used as a generic reference to a medical practitioner able to claim this item.
- A.28.10 The health check should generally be undertaken by the patient's 'usual doctor', that is, the GP who has provided the majority of services to the patient in the past 12 months, or is likely to provide the majority of services in the following 12 months.

Components of the health check

A.28.11 The health check must include:

- information collection, including taking a patient history and undertaking examinations and investigations as required;
- · making an overall assessment of the patient;
- · interventions as indicated; and
- · providing advice and information to the patient.

Information Collection

A.28.12 The health check must include taking a patient history (if one does not already exist) or updating an existing history. The examination should be tailored to the patient's individual needs and risk factors. Investigations should be undertaken or arranged as clinically indicated, in accordance with relevant guidelines (see below).

Assessment of Patient

A.28.13 The health check must include an overall assessment of the patient's health, based on the patient history, examinations and the results of any investigations. This could also include an assessment of the patient's readiness to make lifestyle changes.

Interventions

A.28.14 Where appropriate, arrangements need to be put in place for referrals and follow-up of any problems identified.

Advice and information to the patient

A.28.15 The patient must be provided with advice and information as part of the health check. This should include advice on strategies to achieve lifestyle and behaviour changes where appropriate, utilising, in particular, the Lifescripts resources.

Role of the GP

A.28.16 The GP is responsible for the overall health check provided to the patient. The GP is expected to take a primary role in the following activities:

- · Reviewing and analysing the information collected.
- · Making an overall assessment of the patient.
- · Undertaking and arranging investigations.
- · Making referrals and identifying appropriate follow-up.
- · Providing advice to the patient.

Role of the practice nurse and other health professionals

A.28.17 Practice nurses, Aboriginal Health Workers and other health professionals may assist GPs in performing the health check, in accordance with accepted medical practice and under the supervision of the GP.

This may include activities associated with:

- identifying eligible patients through examination of patient records and patient information systems used within the practice;
- · information collection (such as measuring height, weight and blood pressure);
- providing patients with information about recommended interventions at the direction of the GP (such as information about community resources and support services in the local area, referral options).

Guidelines

A.28.18 In considering and addressing risk factors, GPs are encouraged to utilise relevant guidelines and resources, such as:

- the RACGP publications: "SNAP a population health guide to behavioural risk factors in general practice"; "Putting Prevention into Practice" (the Green Book); and "Guidelines for Preventive Activities in General Practice" (the Red Book).
- the National Health and Medical Research Council's publication "Overweight and Obesity in Adults: A Guide for General Practitioners".
- the Department of Health and Ageing's *Lifescripts* guidelines and evidence cards, assessment tools and prescription pads.

Relationship with other items

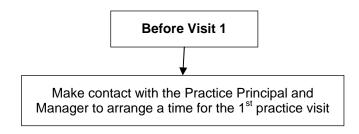
- A.28.19 This health check item cannot be claimed in conjunction with another GP attendance item on the same day, except where this is clinically required.
- A.28.20 For patients with an existing chronic condition, the Chronic Disease Management (CDM) items (721-731) provide a suite of items for the management and review of chronic conditions. Where a patient has an existing chronic condition, it is up to the clinical judgement of the GP whether the patient should receive a health check under this item or be managed through other services
- A.28.21 Indigenous people are able to access a specific health check under the Aboriginal and Torres Strait Islander Adult Health Check item (710). GPs are encouraged to use item 710 where appropriate. Aboriginal and Torres Strait Islander people may also receive a health check under this item if they meet the patient eligibility requirements. Related Items: 717

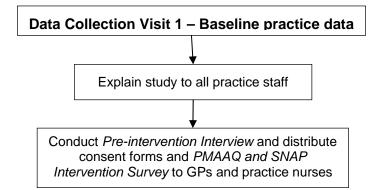
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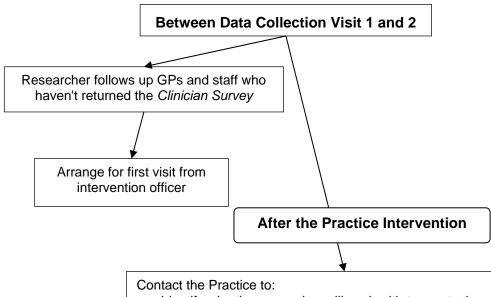
- A Addition/Deletion of (Assist.)
- ‡ Amended Description
- @ Anaesthetic Values Amended
- + Fee Amended
- * Item Number Change
- † New Item
- Δ New Item (previous Ministerial Determination)

ABN: 83 605 426 759 © Commonwealth of Australia

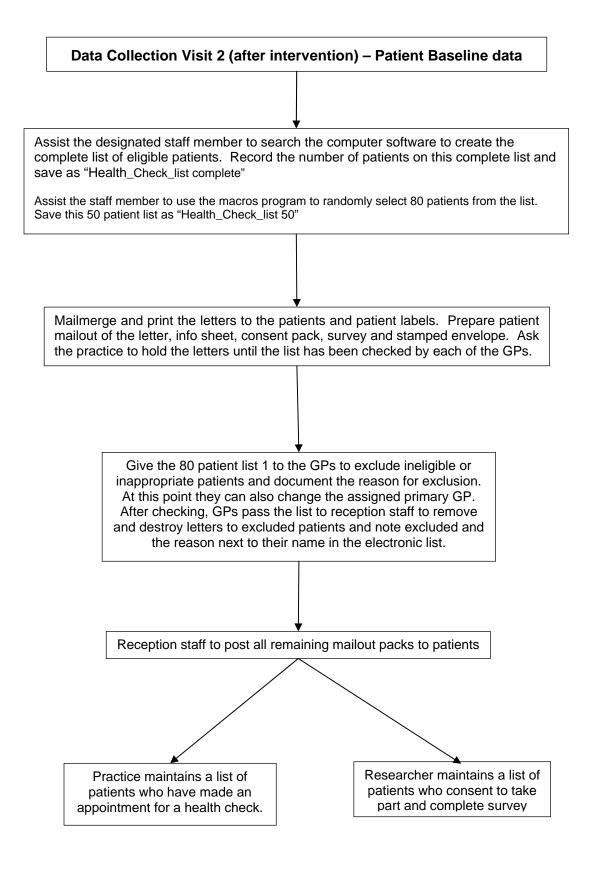
Patient Recruitment and Baseline Data Collection

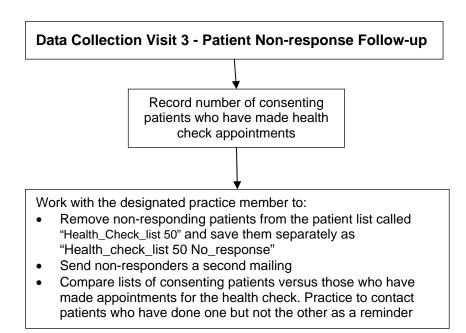




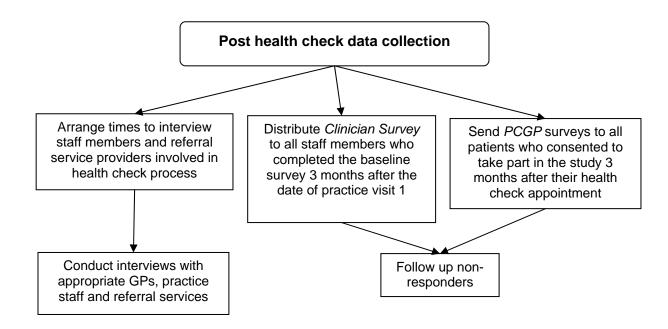


- Identify who the researcher will work with to create the patient list
- Send the practice-to-patient letter template to the practice
- Ask to get the template copied on to the practice letterhead, and get it sent back to UNSW





1 POST-HEALTH CHECK DATA COLLECTION FLOWCHART





Lifestyle risk assessment in the 45 year old health check

PRE-PRACTICE VISIT QUESTIONNAIRE (To be completed by Principal GP and/or Practice Manager)

| | eral Practitioner(s): | | | | | |
|------|--|--------|------|--------------|--------------------|-------------|
| | General Practitioner Name | M/F | | rage hours | Taking pa | art in this |
| | | | WORK | ed per week | ☐ Yes | □ No |
| | | | | | ☐ Yes | □ No |
| | | | | | ☐ Yes | □ No |
| | | | | | □ Yes | □ No |
| | | | | | ☐ Yes | □ No |
| Reco | eptionist(s) | | | | | |
| | Receptionist(s) Name | | M/F | Average ho | urs per week | |
| | • | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| NT | | • | | • | | _ |
| | se(s): s the practice have a Practice Nurse(s)? | | | | □v _{as} [| ¬N₀ |
| | res, does the nurse currently play a role in | | | | | |
| | sting with care plans, or risk factor assessment, ad | | | | | |
| | Practice Nurse(s) Name | M/I | F A | verage hours | per week | |
| | | | | | | |
| | | | | | | |
| | s the practice have a non-GP Practice Ma | nager? | | | □Yes | □No |
| Does | | | | verage hours | | |
| Does | Practice Manager(s) Name | M/I | | | | |

Practice Systems

| 7. | Which days and hours is practice open: |
|------|--|
| 8. | Does the practice have an appointment system?□Yes □No |
| | If yes, booking interval: \square <5 mins \square 5-10 mins \square 11-15 mins \square >15 mins |
| 9. | Does the practice bulk-bill?□Yes, for all consults □Yes, for some consults □No |
| | If some consults, which? (ie health care card only, immunusations) |
| 10. | Which clinical software program is used in the practice? (eg Medical Director, Spectrum) |
| 11. | Do GPs use a computer to record medical notes? □Yes □No □Some |
| 12. | Does the practice have regular team meetings?□Yes □No |
| | If yes how often are these held |
| | Who attends these meetings? □ All staff □GPs only □GPs and nurses □Other |
| 13. | Are longer consultations scheduled for care planning, health assessments, case conferencing or chronic disease checks? |
| 14. | Does the practice currently use the following MBS Enhanced Primary Care Items (please circle): |
| | 14.1 Aged Care Assessment? |
| | 14.2 Multidisciplinary Care Plans?□Yes □ No |
| | 14.3 Team Care Arrangements?□Yes □No |
| | GP Management Plans?□Yes □No |
| | 14.5 45 Year old Health Check?□Yes □No |
| 15. | Doe the practice need education materials for patients aged 45-49 in languages other than English?□Yes □No |
| | If yes, which language(s) |
| Pati | ent Register and Recall |
| 16. | Does the practice use any patient registers?□Yes □No |
| | If yes, what type? Age / sex Specific disease/risk factor Other |
| 17. | Does the practice have a system to recall patients for ongoing care?□Yes □No |
| | If yes, who manages this? Nurse GP Prac Manager Receptionist |
| 18. | If the practice has a recall system, is it computer-based?□Yes □No |
| 19. | If the practice has a recall system, which conditions is it used for? |

Thank you for completing the questionnaire. Please fax this to Cheryl Amoroso on 9385 1513.



Survey of Assessment and Management for Lifestyle Risk Factors

This survey takes approximately 15-20 minutes to complete. After completion, please post this survey with your signed consent form in the envelope provided. All information that you provide will be kept confidential and stored securely.

How effective do you think you are in changing your patients' behaviour with respect to the following?

| | Very
ffective | Moderately effective | Somewhat effective | Minimally effective | Do no | | |
|--|--|--|--|---|---|---|--|
| Exercise | | | | | | | |
| Healthy diet | | | | | | | |
| Weight reduction | | | | | | | |
| Smoking cessation | | | | | | | |
| Alcohol consumption | | | | | | | |
| as | visit or e
ever
sk | exam, how of
Rarely S
ask | ten did you
ometimes
ask l | ask the pation Ask about that the time | ent about t
Often
ask | he followir
Usually
ask | ng?
Alway
ask |
| | 0%
⊐ | 1-20% | 21-40% | 41-60% | <i>61-80%</i> | 81-99% | 1009 |
| | <u>-</u>
] | | | | | | |
| | <u>-</u>
] | _ <u></u> | <u> </u> | | <u> </u> | <u> </u> | |
| | | <u> </u> | | | <u> </u> | | |
| Alcohol consumption During the past 60 days whe past medical history, how oft | n you sa
ten did y
Never | ou advise th
Rarely | e patient to
Sometimes | do the follow
Advise about | ving?
Often | Usually | Alwa |
| During the past 60 days whe | n you sa
ten did y | ou advise th | e patient to | do the follow | ving? | | Alwa
advis |
| During the past 60 days whe | n you sa
ten did y
Never
advise | ou advise th
Rarely
advise | ne patient to Sometimes advise | do the follow
Advise about
half the time | ving?
Often
advise | Usually
advise | Alwa
advis |
| During the past 60 days whe past medical history, how oft | n you sa
ten did yo
Never
advise | ou advise th
Rarely
advise
1-20% | Sometimes
advise
21-40% | Advise about half the time | Often
advise
61-80% | Usually
advise
81-99% | Alwa
advis |
| During the past 60 days whe past medical history, how oft | n you sa
ten did y
Never
advise
0% | ou advise th
Rarely
advise
1-20% | Sometimes advise 21-40% | Advise about half the time | often
advise
61-80%
□ | Usually
advise
81-99%
□ | Alwa
advis |
| During the past 60 days whe past medical history, how oft Exercise regularly Increase fruits and vegetables | n you sa
ten did y
Never
advise
0% | ou advise th
Rarely
advise
1-20% | Sometimes advise 21-40% | Advise about half the time | Often advise 61-80% | Usually
advise
81-99% | A
ac |
| During the past 60 days whe past medical history, how oft Exercise regularly Increase fruits and vegetables | n you sa
ten did you
Never
advise
0%
——————————————————————————————————— | Rarely advise the state of the state of the following the state of the | Sometimes advise 21-40% | Advise about half the time 41-60% | often advise 61-80% | Usually advise 81-99% □ □ □ □ | Alw adv 10 |
| During the past 60 days whe past medical history, how oft Exercise regularly Increase fruits and vegetables Decrease dietary fat consumption During the past 60 days, whe | n you sa
ten did y
Never
advise
0%
——————————————————————————————————— | Rarely advise the Rarely advise 1-20% The property of the following range of the following | Sometimes advise 21-40% | Advise about half the time 41-60% | often advise 61-80% | Usually advise 81-99% | Alwa advi 1000 |
| During the past 60 days whe past medical history, how oft Exercise regularly Increase fruits and vegetables Decrease dietary fat consumption During the past 60 days, whe | n you sate ten did your sate of the did you sa | Rarely advise the result of the following advise result of the following result | Sometimes advise 21-40% 18 years or ng? Sometimes advise | Advise about half the time 41-60% Older) who was Advise about half the time | often advise 61-80% as overwed | Usually advise 81-99% u u u ight or obe Usually advise | Alwa advis 1000 See, how Alwa advis 1000 |
| During the past 60 days whe past medical history, how oft Exercise regularly Increase fruits and vegetables Decrease dietary fat consumption During the past 60 days, whe often did you advise the pat | n you sate ten did your sate of the did you sa | Rarely advise the Rarely advise 1-20% The results of the following advise 1-20% Rarely advise 1-20% | Sometimes advise 21-40% 18 years or ng? Sometimes advise 21-40% | Advise about half the time 41-60% Older) who was Advise about half the time 41-60% | Often advise 61-80% Cas overweit Often advise 61-80% | Usually advise 81-99% Usually advise 41-99% | Alwa advis 1000 See, how advis 1000 Control Co |
| During the past 60 days whe past medical history, how oft Exercise regularly Increase fruits and vegetables Decrease dietary fat consumption During the past 60 days, who often did you advise the pat Exercise regularly | n you sate ten did your sate of the did you sa | Rarely advise the Rarely advise 1-20% The property of the following advise 1-20% The Rarely advise 1-20% The property of the following advise 1-20% The property of the following advise 1-20% | Sometimes advise 21-40% [18 years or ng?] Sometimes advise 21-40% | Advise about half the time 41-60% Older) who was Advise about half the time 41-60% | often advise 61-80% Often advise 61-80% Often advise 61-80% | Usually advise 81-99% Usually advise 81-99% | Alwa advis 1000 See, how |
| During the past 60 days whe past medical history, how oft Exercise regularly Increase fruits and vegetables Decrease dietary fat consumption During the past 60 days, who often did you advise the pat Exercise regularly Decrease caloric intake | n you sate ten did your sate of the did you sa | Rarely advise the Rarely advise 1-20% The war patient (of the following advise 1-20%) The Rarely advise 1-20% The results of the following advise 1-20% The results of the following advise 1-20% The results of the following advise 1-20% | Sometimes advise 21-40% 18 years or ng? Sometimes advise 21-40% □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ | odo the follow Advise about half the time 41-60% Odder) who w Advise about half the time 41-60% U | Often advise 61-80% Often advise 61-80% Often advise 61-80% | Usually advise 81-99% Usually advise s1-99% Usually advise 81-99% | Alwa advis 1000 See, how |
| During the past 60 days whe past medical history, how often did you advise the pattern did you advise the your did you advise the your did you advise the your did yo | n you sate ten did your sate advise of the order of the o | aw a patient (o the following advise 1-20%) Rarely advise 1-20% Rarely advise 1-20% Rarely advise 1-20% Rarely advise 1-20% | Sometimes advise 21-40% 18 years or ng? Sometimes advise 21-40% | odo the follow Advise about half the time 41-60% Older) who we half the time 41-60% Advise about half the time 41-60% Unit of the time 41-60% | often advise 61-80% Cas overwe: Often advise 61-80% | Usually advise 81-99% Usually advise 81-99% Usually advise 81-99% | Alwa advis 10 00 |
| During the past 60 days whe past medical history, how oft Exercise regularly Increase fruits and vegetables Decrease dietary fat consumption During the past 60 days, who often did you advise the pat Exercise regularly Decrease caloric intake Set a goal for weight loss Decrease dietary fat consumption | n you sate ten did your sate advise of the order of the o | aw a patient (o the following advise 1-20%) Rarely advise 1-20% Rarely advise 1-20% Rarely advise 1-20% Rarely advise 1-20% | Sometimes advise 21-40% 18 years or ng? Sometimes advise 21-40% | odo the follow Advise about half the time 41-60% Older) who we half the time 41-60% Advise about half the time 41-60% Unit of the time 41-60% | often advise 61-80% Cas overwe: Often advise 61-80% | Usually advise 81-99% Usually advise 81-99% Usually advise 81-99% | Alwayadvis 10 09 |

| 5 | In general how imp | ortant is it for ge | neral practitioners to | o counsel n | patients about the | following? |
|---|--------------------|----------------------|------------------------|--------------------|--------------------|------------|
| J | in general new min | or tant is it for go | nciai piacutuoneis u | o counsei p | Janeins about the | ionownig: |

| | Very
Important | Moderately important | Somewhat
important | Not very
important |
|-----------------------|-------------------|----------------------|-----------------------|-----------------------|
| Alcohol consumption | | | | |
| Safe sex practices | | | | |
| Illegal drug use | | | | |
| Cholesterol | | | | |
| Blood pressure | ۵ | | | <u> </u> |
| Exercise | | | | |
| Healthy diet | | | | |
| Smoking | | | | |
| Weight reduction | | | | |
| Seat belt use | | | | |
| Stress/relaxation | | | | |
| Injury prevention | | | | |
| Violence prevention | | | | |
| UV exposure | | | | |
| Depression management | | | | |

6 During the past 60 days, when you saw a patient who smoked cigarettes, how often did you do the following?

| - | Never | Rarely | Sometimes 21-40% | About half
the time
41-60% | Often
61-80% | Usually 81-99% | Always |
|--|-----------|--------|------------------|----------------------------------|-----------------|-----------------------|--------|
| Advise a patient to quit smoking | | | | | | | |
| Advise setting a specific "quit date | " | | | | | | |
| Have a staff member call the patie | nt | | | | | | |
| a week after the quit date | | | | | | | |
| Refer the patient to a group clinic intensive smoking cessation progra | | | | | <u> </u> | | |
| Prepare the patient for withdrawa | l | | | | | | |
| Prescribe a nicotine patch or gum | | | | | | | |
| Provide self-help materials | | | | | | | |
| Refer to Quitline | | | | | | | |

| 7 | How effective are | you in changing v | our patients' behaviour | with respect to: |
|---|-------------------|-------------------|-------------------------|------------------|
| | | | | |

| | Very
effective | Moderately effective | Somewhat effective | Minimally effective | Do not counsel |
|---------------------|-------------------|----------------------|--------------------|---------------------|----------------|
| Alcohol consumption | | | | | |
| Safe sex practices | | | | | <u> </u> |
| Illegal drug use | | | | | <u> </u> |
| Exercise | | | | | <u> </u> |
| Healthy diet | | | | | <u> </u> |
| Smoking cessation | | | | | <u> </u> |
| Weight reduction | | | | | <u> </u> |
| Seat belt use | | | | | <u> </u> |
| Stress management | | | | | <u> </u> |
| Injury prevention | | | | | <u> </u> |
| Violence prevention | | | | | <u> </u> |
| UV exposure | | | | | <u> </u> |

8 During the past 60 days, when you have identified a patient with a lifestyle risk factor, how often did you **assess the patients' readiness to change** their behaviour (stage of change) for each of the following?

| | Never | Rarely | Sometimes 21-40% | About half
the time
41-60% | Often 61-80% | Usually 81-99% | Always | Did not identify
risk factor |
|-------------------------|---------|--------|------------------|----------------------------------|---------------------|-----------------------|--------|---------------------------------|
| Smoking | | | | | | | | |
| Poor nutrition | | | | | | | | <u> </u> |
| At-risk alcohol consump | otion 🗖 | | | | | | | <u> </u> |
| Physical inactivity | | | | | | | | |

During the past 60 days when a patient was identified with a lifestyle risk factor, how often did you **refer to other service providers/agencies or support groups** for management of

| | About half | | | | | | | |
|------------------------|------------|-----------------|------------------|--------------------|--------------|--------------------------|-----------------|---------------------------------|
| | Never | Rarely
1-20% | Sometimes 21-40% | the time
41-60% | Often 61-80% | Usually
81-99% | Always
10 0% | Did not identify
risk factor |
| Smoking | | | | | | | | |
| Poor nutrition | | | | | | | | |
| At-risk alcohol consum | otion 🗖 | | | | | | | |
| Physical inactivity | | | | | | | | |

| 10 | During the past 60 days when a patient was identified with a lifestyle risk factor, how often did you ask |
|----|---|
| | them to return for a follow up visit to check their progress for management of |

| | Never | Rarely | Sometimes 21-40% | About half
the time
41-60% | Often 61-80% | Usually
81-99% | Always | Did not identify
this risk factor |
|------------------------|---------|--------|------------------|----------------------------------|--------------|-------------------|--------|--------------------------------------|
| Smoking | | | | | | | | |
| Poor nutrition | | | | | | | | |
| At-risk alcohol consum | otion 🖵 | | | | | | | |
| Physical inactivity | | | | | | | | |

11 Please rate your **confidence** in undertaking the following activities with patients:

| | Not at all confident | Minimally confident | Somewhat confident | Moderately confident | Very
confident |
|---|----------------------|---------------------|--------------------|----------------------|-------------------|
| Assessing nicotine dependency | | | | | |
| Smoking cessation recommendations | | | | | |
| Assessing nutrition | | | | | |
| Nutrition recommendations | | | | | |
| Assessing for risk alcohol consumption | | | | | |
| Safe alcohol consumption recommendations | | | | | |
| Assessing physical activity levels | | | | | |
| Physical activity recommendations | | | | | |
| Motivational interviewing | | | | | |
| Assessing a patient's readiness to change | | | | | |

12 Patients find it **acceptable** for me to raise the following lifestyle issues routinely as part of the consultation:

| | Strongly
agree | Somewhat
agree | Neither agree
nor disagree | Somewhat
disagree | Strongly
disagree |
|---------------------|-------------------|-------------------|-------------------------------|----------------------|----------------------|
| Smoking | | | | | |
| Nutrition | | | | | |
| Alcohol Consumption | | | | | |
| Physical Activity | | | | | |

13 How much of a **work priority** is addressing the following patient lifestyle risk factors for your practice?

| | Not a priority | Low
priority | Moderate priority | High
priority | Very high
priority |
|-----------------------------|----------------|-----------------|-------------------|------------------|-----------------------|
| Smoking cessation | | | | | |
| Poor nutrition | | | | | |
| At risk alcohol consumption | | | | | |
| Physical inactivity | | | | | |

14 To what extent do you agree with each of the following statements:

| | | Strongly
agree | Somewhat
agree | Neither agree
nor disagree | Somewha
disagree | | |
|----|--|-------------------|-------------------|-------------------------------|---------------------|--------------|-------------|
| | Smoking cessation counselling is an effective use of my time as a clinician | | | | | | |
| | • | | | | | | |
| | For most patients health education does little to promote their adherence to a healthy lifestyle | e 🗖 | | | | <u> </u> | |
| | I am less effective than professional counsellors in getting patients to quit smoking | | | | | | |
| | Patients without symptoms will rarely change their behaviour on the basis of my advice | | | | | <u> </u> | |
| | Most patients try to change their lifestyles if I advise them to do so | | | | | <u> </u> | |
| 15 | In your medical practice, how important are t and disease prevention? | the follo | Not | Minimally | Somewhat | Moderately | Very |
| | Lack of time | | important | important i | mportant | important | important |
| | Lack of availability of health educators | | | | | | |
| | • | | | | - | | |
| | Insufficient reimbursement for preventive service | | | | | | |
| | Lack of systems for tracking and prompting prevent | ive care | | | | | |
| | Personal lack of interest in providing preventive s | ervices | | | | | |
| | Lack of patient interest in prevention | | | | | | |
| | Uncertainty about what preventive services to pro | vide | | | | | |
| | Lack of proper patient education materials | | | | | | |
| | Communication difficulties with patients | | | | | | |
| | Cultural differences between doctors and patients | . | | | | | |
| | The patient came for a different purpose | | | | | | |
| Ed | lucation and training for risk factors | | | | | | |
| 16 | In the past 12 months have you had education strategies for helping patients change their be | | | nanagement | of these 1 | risk factors | or |
| | Smoking | □ Ye | es 🔲 No | | | | |
| | Nutrition | □ Ye | es 🔲 No | | | | |
| | Alcohol | □ Ye | es 🗆 No | | | | |
| | Physical activity | □ Ye | es 🔲 No | | | | |
| | Motivational interviewing | □ Ye | | | | | |
| | Assessing patients' readiness to change | | | | | | |
| | Patient education strategies | ☐ Ye | es 🔲 No | | | | |

| 17 If YES to any items in questions 17, please | describe the type of ed | ucation/ training you have rec | eived |
|--|--------------------------|---------------------------------|-------|
| | | | |
| | | | |
| | | | |
| 18 Would you like additional education or tra | aining in these areas: | | |
| Assessing nicotine dependency | Yes, high priority | ☐ Yes, but not high priority | □ No |
| Smoking cessation recommendations | Yes, high priority | ☐ Yes, but not high priority | □ No |
| Assessing nutrition | Yes, high priority | Yes, but not high priority | □ No |
| Nutrition recommendations | Yes, high priority | Yes, but not high priority | □ No |
| Assessing for risk alcohol consumption | Yes, high priority | Yes, but not high priority | □ No |
| Recommendations for safe alcohol consumption | n 🔲 Yes, high priority | Yes, but not high priority | □ No |
| Assessing physical activity levels | Yes, high priority | Yes, but not high priority | □ No |
| Physical activity recommendations | Yes, high priority | Yes, but not high priority | □ No |
| Motivational interviewing | Yes, high priority | Yes, but not high priority | □ No |
| Assessing a patient's readiness to change | Yes, high priority | Yes, but not high priority | □ No |
| | | | |
| 19 If you would like training, in what format | would you like to receiv | re it? (tick all that annly) | |
| | vision/ mentoring | self-study materials Other: | |
| 20 Any other comments: | | | |
| | | | |
| Clinician details | | | |
| | | | |
| Gender: ☐ Female ☐ Male | | | |
| Age: 25-34 25-44 25-54 25 | 5-64 □ 65+ | | |
| Working status: \square Full-time \square Part-time , If | part-time, how many hou | ırs do you work per week | |
| Clinician type: ☐ General Practitioner ☐ Pra | ctice nurse | | |
| How long have you worked in general practice? | How long ha | ve you worked in this practice? | |

Thank you for your time.



Health check interview questions for clinicians

- 1. Overall, what do you think of the 45-49 health check? What are some of the positive and negative things associated with undertaking the health check?
- 2. Do you think the health check has or will increase the amount of preventive care that you provide for patients?
- 3. How many appointments did the health check generally take to complete? How long were these appointments on average?
- 4. What proportion of patients on average did you ask to return to the practice for follow up of issues identified during the health check? Did patients return?
- 5. To what extent were lifestyle risk factors such as smoking, poor nutrition, risky alcohol consumption and physical inactivity prevalent for the patients you saw for the health check? What was your experience in addressing these issues with these patients? What made this easier or more difficult?
- 6. Of those patients who received a health check, did you refer any on to other providers or services? Approximately how many and under what circumstances did you refer patients? What made it easier or more difficult to refer?
- 7. In your experience do you think particular types of patients were more likely to attend for a health check following the recall letter?

 Prompt: gender, number of risk factors, health status, employment, education etc
- 8. Based on your experience, what support would most help you do the 45+ health check? Do you think it is the same for other GPs and practices? Where would you expect to get this support?

Prompt: training, patient education materials, directories, IT/IM systems

9. Out of the support that was provided as part of the study to do the health check, which of these were most/least useful to you? Why? What other support that was needed?

Appendix E

- 10. How relevant is the 45-49 year old health check item to your practice population? Will you continue to use the health check item? Will you do this opportunistically or by recall?
- 11. Do you have any recommendations to improve the health check process or item?
- 12. Do you have any other comments?



The 45-49 Year Old Health Check Survey

Please answer each question to the best of your ability; your answers will remain confidential. After completing the survey, please post it to the University in the provided envelope.

| 1. 0 | VERALL HEALTH | 4. P | HYSICAL | _ ACTIVI | TY | | | | |
|-------------|---|-----------------|---|---|--|----------------------|----------------------------------|-------------------------|---------------------------------------|
| 1.1 | I would say in general that my health is: Excellent Unsure Very Good Good Fair Poor | 4.1 | 20 minu
makes ye
jogging, he
☐ More th | y times a tes of viou sweat eavy lifting, | igorous
or puff a
digging, a
s per weel | phys
nd p | ical act
ant? (<i>F</i> c | ivity
or ex
bicyc | that
ample |
| | Over the past 3 months, my health has: Improved | 4.2 | How man minutes that increathe mowing, or | ny times of modera reases yo harder tha carrying light | a week on the second se | cal a
rate
al? | ctivity o
e or ma
(For exa | or wa
akes
ample | alking
you
lawn |
| 2. D | IET | | ☐ 3-4 tim | ore times p
nes per wee
nes per wee | ek | | □None | : | |
| 2.1 | How many portions of fruit do you usually eat each day? A portion of fruit equals about 1 medium size piece of fruit or 2 small pieces of fruit or ½ glass of fruit juiceportions | 4.3 | the amou | st 3 month
int of phys
did <u>more</u> a
did less ac | sical activ | ity yo | | | ıge in |
| 2.2 | How many portions of vegetables do you usually eat each day? A portion of vegetables equals about ½ cup cooked vegetables, 1 medium potato or 1 cup salad/vegetablesportions | 5. A 5.1 | LCOHOL How often | -
n do you ເ | ısually dr | ink al | cohol? | | |
| 2.3a | In the past 3 months, have you increased your fruit or vegetable intake? ☐ Yes ☐ No ☐ Unsure | | 2-4 tim
2-3 tim | ly or less
nes a montl
nes a week
es a week | h | ver (s | skip to Q | 5.1) | |
| | In the past 3 months, have you decreased your fat intake? Yes No Unsure | 5.2 | a typical | y standard
day when | you are d | rinki | ng? | - | |
| 3. W
3.1 | VEIGHT What is your weight? | One : | standard drir | 1 Middie | urement ap | PICOXII | nately eq | <i>iai t</i> 0 | 1 |
| 3.2 | kg orstone & pounds What is your height? cm orfeet & inches | of Li | chooner
ght beer
125ml | of
Full-
strength
Beer
285 ml | 1 glas
Of wir
100ml | е | 1 nip of
Spirits
30ml | | glass
of
Port
Sherry
60ml |
| 3.3a | In the past 3 months, has there been any change to your weight? Yes, I lost weight No Change Yes, I gained weight Unsure | 8 | OR | | OR | OR | | OR | 1 |
| 3.3b | If your weight has changed, about how much did you lose or gain? | | □1-2
□ 7-9 | | ☐ 3-4
☐ 10 or n | nore | □5-6 | | |

| 5. ALCOHOL | | | | | | 8. Y | OUR GENERAL PRACTICE |
|--|---|--|--|--|---|------|--|
| m | ow often, in ore standar more stan | rd drinks
dard drin
nonthly | (if you a | re a wom
are man)' | an) or 6 | | In the past 3 months have you visited your usual GP* Yes |
| | Once a mo Weekly Daily or ali | most daily | nths has | | | 8.2 | Did you go to your GP in the last few months for a "45-49 year old health check"? Yes No Unsure |
| | nange in the
Yes, I dran
Yes, I dran | k more ald | ohol | ol you drin | ange | 8.3 | Would you recommend having a health check to other people your age? ☐Yes ☐ No ☐ Unsure |
| 6.1 D | SACCO you smok Yes (skip) No, but I u No, I neve | to Q6.3)
sed to smor
r smoked | oke
(skip to Q7 ₎ | | | 8.4 | At your health check, did the GP or nurse discuss any of the following risk factors with you Smoking Yes No Diet Yes No Alcohol consumption Yes No Physical activity Yes No I did not attend for a health check |
| 6.2 If you used to smoke, when did you quit? / (month/year, for example Aug/2006) 6.3 If you currently smoke, how many cigarettes do you smoke a day? | | | | | | 8.5 | In the past 3 months have any lifestyle changes that you have made (such as changing your diet, doing more exercise, quitting smoking, drinking less alcohol) been the result of attending your GP for a health check? |
| 7 Fo | or each of the book the book the book you do not so | the five li
ox under
ou:
drink alcor | sted lifes
the he | eading the estion 7.4 | | | ☐ I have not made any lifestyle changes ☐ I did not receive a health check ☐ None of the lifestyle changes I made were as a result of the health check ☐ Some or all of the lifestyle changes I made were as a result of the health check |
| | I am not thinking of doing this | I am
thinking
of doing
this, but
not in
the next
2 weeks | I am
thinking
of doing
this in
the next
2 weeks | I am trying
to do this
currently | I have
done
this and
maintained
this for at
least 2
weeks | 8.6 | How satisfied were you with the support you received in your general practice to help you change your lifestyle? Uery satisfied Somewhat satisfied Somewhat dissatisfied |
| 7.1 Eat mo
fruits or
vegetables | | | | | | | ☐ Very dissatisfied |
| 7.2 Eat less
dietary fat | | | | | | 8.7a | In the past 3 months has your GP referred you to any services, programs, or health professionals to |
| 7.3 Do moi
physical
activity | | | | | | | assist with the following? Healthy eating and nutrition Yes No |
| 7.4 Drink le
alcohol | ess | | | | | | Physical activity Yes No Alcohol consumption Yes No |
| 7.5 Quit
smoking | | | | | | | Smoking cessation Yes No |
| | ' | | | | | | |

| 8. Y | OUR GENERAL PRACTICE cont. | 9. A | BOUT YOU |
|------|--|------|--|
| 8.7c | If your GP referred you to a specialist or program for diet, physical activity, smoking or alcohol and you did not attend, why did you not attend? | 9.4 | Which of the following best describes your accommodation? |
| | and you did not attend, why did you not attend: | | Owner occupied/mortgaged |
| | | | ☐ Rented from a private landlord |
| | | | ☐ Rented from the Department of Housing |
| - | answer questions 8.8a and 8.8b if you did not nd your GP for a health check | | Other arrangements |
| 8.8a | What are the main reasons you did not attend your GP for a health check (tick all that apply) | 9.5 | Which of the following best describes your employment status? |
| | ☐ I did not know about the health check | | ☐ Employed (full or part-time, including self-employed o |
| | ☐ I am not interested in having a health check | | on a training scheme) |
| | ☐ I did not think I needed a health check | | ☐ Unemployed and looking for work |
| | ☐ I did not have the time | | At school or in full-time education |
| | ☐ I was concerned about cost | | Unable to work due to long-term sickness or disability |
| | ☐ The doctor who invited me was not my usual GP | | Looking after your home/family |
| | Other (please explain) | | _ , , |
| | | | Retired from paid work |
| 8.8b | Is there anything that could have made you more likely to attend the practice for a health check? | | Other (Specify) |
| | | 9.6 | Which of these is your highest level of education? |
| | | 3.0 | No formal certificate / Qualification |
| _ | | | Completed School Certificate / Intermediate / Year 10/4 th Form |
| 9. A | BOUT YOU | | Completed HSC / Leaving Year 12 / 6 th Form |
| | | | TAFE Certificate or Diploma |
| 9.1 | Do you primarily speak English at home? | | |
| | ☐ Yes ☐ No | | University, CAE, tertiary institute degree or higher |
| | If Yes Skip to Question 9.2 | | Other (Specify) |
| 9.1a | Which language do you primarily speak at home? | 9.7 | What is your current marital status? (Please fill in only one square) |
| | | | Single |
| | | | Separated / Divorced |
| 9.2 | In which country were you born? | | |
| | ☐ Australia | | Married / De Facto |
| | Other country | | Widowed |
| | | | |
| 9.2a | If you were born overseas, in what year did you arrive in Australia? | Tł | nank you very much for your participation in this study. Please post your survey |
| | · | | responses in the provided envelope to |
| 9.3 | Are you of Aboriginal or Torres Strait Islander descent? | C | complete your participation and be entered into the prize draw. |
| | ☐ Yes ☐ No | | |

SNAP Decisions

A Qualitative Study of General Practitioners' Decision-Making in the Screening and Management of Chronic Disease Risk Factors:
Smoking, Nutrition, Alcohol and Physical Activity (Decisions within the Health Check Consultation)

Amanda Ampt, Cheryl Amoroso, Mark Harris, Suzanne McKenzie, Vanessa Rose, Jane Taggart

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1 Introduction

The economic and social burden of chronic disease in Australia is growing, with the Australian Institute of Health and Welfare reporting that 77% of the population had at least one long-term condition in 2004-2005. During 2000-2001 chronic diseases accounted for nearly 70% of the total health expenditure allocated to diseases (AIHW, 2006). Added to that, seven out of ten general practice encounters are for chronic conditions (Veale, 2003).

The Australian Institute of Health and Welfare published statistics in 2006 regarding the SNAP lifestyle risk behaviours which stated that more than 85% of adults are not consuming enough vegetables; one in two adults are not getting sufficient physical activity; almost 50% of adults are not consuming enough fruit; and around 21% of adults smoke tobacco. These findings are alarming, especially in the context of the current burden of chronic disease in the Australian community. Due to the prevalence of these risk factors, GPs will need to prioritise which patients they will focus their risk factor assessment and management.

The 45-49 year old Health Check Medicare Item 717 was introduced in Australia in November 2006, with the aim being "...to assist with the prevention of chronic disease and to enable early intervention strategies to be put in place where appropriate" (Australian Government, 2007). It is delivered as a once only consultation by a patient's usual general practitioner (GP) to a patient aged 45 to 49 years of age with at least one risk factor (lifestyle, biomedical or family history) for chronic disease.

The Australian Government stipulates that the 45-49 year old Health Check must include the following:

- Information collection history, examinations and investigations as required;
- Overall assessment, which can include patients' readiness to make lifestyle changes;

- Interventions with referrals and follow-up as appropriate; and
- Provision of advice and information including strategies to achieve lifestyle risk factor behavioural changes.

Within this Health Check item, there is emphasis on detection and intervention for the SNAP lifestyle risk factors – smoking, nutrition, alcohol consumption and physical inactivity. A study in Spain found that external factors such as size of practice was important in determining frequency of preventive activities in general practice (Lopez de Munain 2001). However, there is currently little known about what influences Australian GPs' decisions regarding screening for and managing SNAP factors in presenting patients. Without knowing what factors impact on GPs' decision-making process, it is difficult to change current GP preventive health care behaviour. Compared with other areas of medical practice, existing behavioural risk factor guidelines are generally less prescriptive, and there is more room for GP judgment regarding interventions. Understanding GPs' decision-making process regarding SNAP risk factors is vital to provide appropriate and effective interventions and support to increase the screening for and management of SNAP risk factors, with the ultimate aim of decreasing the chronic disease burden.

This qualitative study aims to identify the key influencing factors, and asks the specific research questions:

- What are the factors that influence GPs' choosing to opportunistically screen for some, but not all SNAP risk factors in a health check?
- What are the factors that influence GPs' choosing to provide interventions for some, but not all SNAP risk factors present in a patient who is at risk for chronic disease?
- When multiple SNAP risk factors are present, what factors influence the decision regarding which risk factors to address and in what order?
- What is the acceptability and appropriateness of a framework based on factors influencing GPs decisions to support general practices to screen for and manage SNAP risk factors?

Knowledge of these key influences may increase the effectiveness of future chronic disease prevention and management interventions.

This study arose from a larger Health Check study funded by APHCRI, and also undertaken at the Centre for Primary Health Care and Equity: "45-49 year old chronic disease prevention health checks in general practice: utilisation, acceptability and effectiveness". Throughout this document reference will be made to this larger study as the APHCRI Health Check study.

2 Methods

2.1 Participants

Thirteen GPs and one practice nurse who had been involved in the APHCRI Health Check study were invited by letter to participate in this research, as well as eleven GPs who had previously expressed interest. Eight GPs and the practice nurse agreed to be to be interviewed.

Fourteen interviews which had previously been undertaken as part of the APHCRI Health Check study were also re-analysed under the specific lens of SNAP factor enquiry, with incorporation into the thematic coding framework

As participants self selected to be involved in a study regarding preventive care, we recognize that this sample is not without bias and may not represent the general GP population.

2.2 Setting

The interviews were conducted in general practices across two divisions of general practice in Sydney.

2.3 Interviews

We conducted individual interviews in two stages. The first interview consisted of a semi structured approach, aiming to gather general information about clinicians' assessments and interventions for SNAP factors within the 45-49 year old Health Check consultation, using reflections on specific consultations as a guide. This interview was piloted with a GP who was not involved in the study. Minor adjustments to the wording and sequencing of some interview questions were made following this pilot (refer to Appendix I).

After initial analysis, we developed a model on the identification of influences which affect the management of SNAP factors, and re-interviewed the clinicians. During the second interview, we outlined our initial model and asked for feedback regarding its relevance and appropriateness for general practice. We also sought further clarification regarding how clinicians intervened when patients had multiple lifestyle risk factors.

2.4 Analysis

All interviews were audiotaped, professionally transcribed and checked for accuracy. Analysis was assisted by QSR NVivo 6 software, with initial open coding of the interview transcriptions. Identification of codes and emerging themes was undertaken by two researchers, AA and CA. Coding was further refined with the undertaking of constant comparison of data leading to thematic analysis. The Theory of Planned Behaviour was used as an overarching structural framework to support the final analysis, and to develop a model of factors influencing preventive care in the health check consultation. This model was presented to the research team, and with ensuing discussion resulted in minor adjustments. During the individual feedback sessions with clinicians, validity was checked and further details regarding individual SNAP factors were sought. These were then thematically coded for differences and similarities.

3 Ethics

Ethics approval was granted by the University of New South Wales Human Research Ethics Committee. Participating clinicians were supplied with information sheets, and signed a consent form prior to any involvement. All information was de-identified.

4 Results and Discussion

Thematic analysis of the interviews revealed factors that influenced the delivery of preventive care within the 45-49 year old health Check consultation. Added to that, a

variety of activities undertaken by the clinicians emerged, all of which were variable in their delivery depending on underlying influences, and on the individual SNAP factor which was addressed. We used the Theory of Planned Behaviour to add a structural framework to our results.

4.1 The Clinician Behaviours

The delivery of preventive care is composed of a combination of possible behaviours by clinicians. The initial open coding helped us to identify the behaviours undertaken by the clinicians in their management of overall SNAP lifestyle risk factors. Not all behaviours were undertaken by all clinicians, and clinicians discussed different degrees of executing these behaviours. Added to that, some behaviours were more evident for some SNAP factors than for others.

The following section presents a breakdown of those individual behaviours with influencing factors for each discussed, as well as the implications for individual SNAP aspects.

4.1.1 Assessing risk factors

Clinicians needed to assess their patients for lifestyle risk behaviour. This included asking directly about lifestyle, reviewing previous histories and patient notes, ordering tests and updating records with new information.

It was noted by some GPs that patients expected lifestyle risk factors to be assessed within a health check consultation. This gave some clinicians a sense of greater permission to start addressing SNAP factors, which in a more standard acute type of consultation might be viewed as none of their business by some patients or too time consuming. Whether lifestyle risk factors were discussed in any detail in non health check consultations was influenced by the overarching attitude of the clinicians' orientation to preventive care in general.

I don't raise, I mean in a normal consult, I don't raise all of these risk factor issues with them so I can't really compare but during the health checks they were quite acceptable.

Differences in assessment for individual SNAP factors were evident amongst some clinicians. While review of smoking status was mentioned in all interviews as fairly straightforward, evaluation of nutrition, alcohol and physical activity demonstrated more variation. Alcohol assessment caused concern for some GPs. One GP whose orientation to preventive care arose mainly from a cardiovascular risk factor perspective stated:

Smoking comes up because it's a prime cardiovascular risk factor and we're talking cardiovascular risk here...So on the scheme of things alcohol tends to come after other issues like exercise and diet and all that sort of stuff.

This GP went on to state that his awareness for alcohol screening had however increased as a result of the health check:

So I guess that's my awareness in terms of how my practice will change is to maybe say alright, it's all very well screening people with cardiovascular risk factors but may be I should be asking a few more of them how much they drink as well.

The view was also expressed by some GPs that asking people about alcohol was not really effective, as:

If you ask people if they drink alcohol they'll say "yes" and if you ask them how much, we all know that we never get completely straight answers.

Other GPs expressed no barriers to asking people about their alcohol intake, particularly GPs who indicated that they had experience in addressing drug and alcohol issues.

Information regarding a patient's nutrition status and level of physical activity were often inferred by the clinicians either from the patient's general appearance, or from physiological markers such as blood results, weight and BMI.

Rather than what they're eating, I ask about nutrition only if the weight is very high and if they (are) obviously well looking person, I don't bother.

It would appear that an assessment of level of risk to the patient informs their intensity of assessment. For example, if the patient already exhibited signs of poor nutrition (such as obesity), more intensive screening around diet and physical activity would usually be undertaken.

Time was mentioned as a barrier to a more detailed assessment:

I mean you really don't have all that much time to look at those issues specifically, and also people cheat.

GPs' perception of their professional role was also raised, with one admitting to not asking about specific dietary intake as:

I'm not going there at all. I'm not really, in general terms, a dietician.

The value of specific guidelines for nutrition was also dismissed by this GP who doubted the effectiveness of general recommendations:

...if they haven't got a weight related thing, if they're not hypertensive, ischaemic, diabetic, why (screen for dietary recommended amounts)... I don't believe recommendations

In those practices that did do a full nutrition assessment or specifically asked about physical activity, certain influencing factors were often apparent. These included practice capacity issues with the presence of a practice nurse who did full assessments, or an expression by the GP of personal interest. Specific mention was also made of assessment resources such as Lifescripts or the use of a computer-based template supplied by the Divisions of General practice for use with the health check item.

The only thing I wouldn't have picked up is nutrition and physical activity – but now it does as it forces it to be assessed through the template

4.1.2 Motivating the Patient

GPs varied in their behaviour around motivating the patient to change risk behaviour. This was often discussed in the wider context of how much preventive care they were involved in generally, whether they felt effective in this role, and whether it was an

expected role of GPs. For some GPs, they had a strong belief motivation was a part of their role.

The great majority had attended instruction in motivational interviewing as part of the APHCRI Health Check Study, and the use of some motivational techniques was discussed by a few GPs, with a belief that their skills in this area had increased:

...now you can address some of the risk factors and assess somebody's willingness to make changes in their lifestyle and with the particular point they're up to so you know whether or not you're wasting your time by going ranting and raving...

Others felt that motivational interviewing sounded good in theory, but the reality of practice demands made it difficult to execute:

...when you went to the workshop you thought "oh, I'm going to do all this, I'm going to do all this, I'm going to check all these patients" but when it comes to doing it, it's a different story...Because of time, because of people don't want it, because of many reasons"

Some GPs expressed frustration and disappointment when they could not successfully motivate their patients, implying that they perceived their professional role to include motivation. At the opposite end of the spectrum, others felt that once the patient had been educated regarding lifestyle risk factors, the responsibility then lay fully with the patient.

I think I've discharged my duty once I've informed that they own such an issue and invited them to deal with it further with me at their pleasure.

Motivation was often expressed in terms of the patient's level of motivation, rather than whether the GP could change that level:

We are not here as saints to – I mean we need to move on with our time and there are some ten other patients for one unmotivated patient who we can help so if in the end the patient's not motivated I think motivational interviewing is not going to make a huge difference

There was some difference between the SNAP factors, with quite a few GPs expressing frustration in trying to motivate smokers to quit. Success with smoking behavioural change was generally regarded as abstinence, expressed in terms of quitting. This was different from the other lifestyle factors. GPs located success for other factors on a spectrum from incremental change to radical lifestyle alteration. Alcohol approximated smoking when the problem was heavy drinking with addiction. One GP found trying to motivate smokers so frustrating he no longer attempted to do it, while others agreed with this frustration and believed they just did not have the skills to do it:

... I think it's very, very difficult to motivate patients give up smoking ...sometimes I think it's a waste of time from my part and I may be wrong but that's the way I look at it.

I feel I'm not prepared to deal with some of the others like smoking. I don't think I'm the best person to deal with smoking and I sent them to the Quitline.

...but I'm not a very good counsellor with smoking. I think it frustrates me probably the most.

When GPs recognized that success for weight loss could include small losses, they did not voice as much frustration with motivating patients:

I cannot expect him to be 25 BMI. It's never going to be possible ... if he changes just a few things and he maintains his weight or it doesn't increase more that would be my success or if he manages to lose even 5kg and keeps a rapport with me ... I think we've done him something ...

Frustration was higher in trying to motivate patients to lose weight when perceived success was harder to achieve:

...losing 50 kilos in weight...those are the people who benefit.

Some GPs also voiced the opinion that a patient's education level influenced their motivation. When asked "How much of a role do you see as a GP has as a motivator for the patients that come in?, one GP responded with:

Oh (sigh). It is hard to say because if you – it depends on the education level of the person and how much they want to change. That's all, exactly depend on those two.

4.1.3 Giving advice and educating the patient

This aspect of behaviour is crucial to interventions for lifestyle risk management. It was definitely viewed as a professional responsibility by most GPs

I would say if someone is practising good medicine (they) would do it anyway because that's part of the job of the GP.

Different options were available for clinicians to educate their patients. They all referred to "giving advice" at some point in their interview, sometimes expressed in didactic terms, such as:

I was saying "you've got a weight problem and obviously the cholesterol is raised, you need to perhaps lose some weight ... eat healthily, eat more vegetables and to exercise regularly, all you need to do is just start walking and do it regularly". So basically I gave her information.

I have been just encouraging walking I think, walking is the most sustainable and easy to do although it gets a bit boring I suppose

Other clinicians took advice-giving further by identifying how the patients could make adjustments to risk factors and gave more specific suggestions, in some instances really trying to personalize the advice for the patient's benefit:

Everybody is different. You've just got to find the right formula that clicks one person in the right direction rather than another."

So then we discussed about not buying the coca cola and cordials but to buy the fruits. So we discussed about alternatives.

Whether patients were given written information seemed to depend on the clinicians' preference, with none reporting that the decision to give handouts depended on what the patient would prefer. Lifescripts were used by some GPs, but they were mentioned less for tailored advice than for assessment. Some GPs felt that the addition of printed material helped to reinforce the message:

I mean I rarely send people out the door without something written down on a piece of paper because experience tells me that if you don't reinforce the information you're giving people, by the time they've got to the front door they've forgotten it. So that's where the lifestyle scripts are good because they do give people a piece of paper. What they do with it when they get home I have no idea but sometimes something that you actually write down yourself actually has more impact than something you just whip out of a file and throw at the patient.

Use of written information appeared more common for nutritional advice, followed by physical activity with less discussion of material for alcohol and smoking cessation. Some GPs felt they lacked skills in the area of nutrition, and wished they had better knowledge of nutrition. This may have influenced their choice at giving pre-printed information to their patients:

Well I feel comfortable with the smoking 'cause the issues are clear cut. Nutrition, I'm a bit weak, I mean I know a fair bit about it but the area is evolving, it's a prickly area.

When GPs recognized cultural influences on dietary habits, they tried to incorporate cultural aspects into their advice. Similar to assessment for diet and physical activity, the amount of advice to patients seemed to depend on whether the patient already had an identifiable weight problem.

4.1.4 Arranging follow-up appointments

The majority of GPs scheduled the Health Check Item with at least one other visit, believing that not all items could be covered in one visit. One GP felt that the main purpose of the item was specifically for screening, and intervention if appropriate would be dealt with at another time. There was recognition that ongoing behavioural change usually required more support than a one-off visit:

It often takes two or three times to discuss with them to quit smoking or discuss the sort of change in lifestyle factors.

Smoking and alcohol were mentioned as the SNAP factors that would be followed up, while nutrition and physical activity were only followed up if the patient was already overweight or hypertensive. Individual GPs mentioned one SNAP factor more than others, but that was usually in response to what their patients' needed or what the GPs were personally interested in, for example:

I really like trying to have people losing weight. In fact I get them back and have longer consultations with them for the weight and the diet issue.

The patient's level of motivation was often cited as an influencing factor in pursuing follow up appointments. Although there was recognition that provision of follow-up

support was the ideal, how actively follow-up appointments were actually made appeared to depend upon the GPs orientation to preventive care in general. This had to be balanced with the reality of practice demands and the time involved available for practising preventive care:

...I did try to practice preventative medicine when you see obese and if they've got diabetes or heart disease, of course I – but I must say it's not structured with the timeframe allowed 'cause this is about 20 minutes or more and that's a bit hard sometimes to spare 20 minutes.

I think so, I really think so because if I'm with a patient for an hour I could but I can't because I've got a lot of other patients that want to see me and I can't spend, I do sometimes spend an hour with a patient, I spend even more with a patient but it's not common. It's very difficult and it's not the money, it's the time, the logistics to see all these patients... How many long consultations can you give. There are other patients with other issues, medically related. I put the more important in the day, they're sick, they need to get better.

Follow-up was also provided opportunistically when patients came in for other reasons, with GPs often commenting they would check to see how things were going:

...it is important for him to contemplate and to assimilate the information that I was giving him... He has come back subsequently on one or two occasions which has allowed me to ask him what he's doing.

Cost was also cited as a perceived barrier for patients to return to the surgery, with many GPs believing that patients were reluctant to pay for preventive care.

Different attitudes were also evident in practices that had an appointment system as follow-ups could more easily be arranged.

Overall, smoking and alcohol were followed up more actively, nutrition and physical activity only if a condition was already manifest.

4.1.5 Referring to other personnel and agencies

GPs exhibited various attitudes towards referring patients to other services and personnel. Many influencing factors were evident, some as basic as a belief that most things should be managed by the GP with a perception of their role as taking responsibility for the patient's care:

My philosophy's in-house as far as possible on any medical condition. I'm not a high referral source...

The decision to refer was a behaviour that demonstrated pronounced differences amongst the individual SNAP factors, with smoking prompting the most enthusiasm for referral. As outlined previously, smoking was the most frustrating factor to deal with for many GPs; perhaps this frustration and the ensuing need for outside intervention prompts a higher referral rate.

Perceived patient resistance to cost was often cited as a barrier to referral, with many GPs believing their patients would not take up referrals if they had to pay. Added to this is access to services. With the majority of 45-49 year olds in employment, accessing

referrals through working hours is difficult, and many services are not available out of hours.

Cost, also the other issue is time. If someone is working then won't have the time to go during the week and many of these practitioners are not available on weekends obviously.

Quitline, the most common referral agency, did not have these barriers.

Patient motivation was also mentioned, with the implication that patients had to be motivated in the first place:

...because if I'm going to refer them and if they are not quite motivated and then it's going to fail"

However one GP recognised that support services can actually help to motivate patients:

It was fairly obvious that they need to tackle their problem in a number of different ways and having talked to the exercise physiologist there... they at least get people motivated.

Referrals to dieticians for nutritional advice appeared to depend on the patient's level of risk, as well as whether the GP felt the support offered would be effective:

Okay if the patient has high cholesterol or hypertensive and perhaps is overweight we'll discuss their diet and that sort of things and I would ask them if they would like to see a dietician.

It was very rare for referral to dietician to be offered if the patient had no long term condition. Some GPs felt that dieticians would actually do little more than offer the same sort of advice already offered by the GP, and as such were of little value.

Many GPs voiced their lack of knowledge regarding exercise physiologists. One GP stated that she referred to physiotherapists because she had worked with them in hospitals, but had no idea what an exercise physiologist did. Without this knowledge, she was reluctant to refer as she could not vouch for their effectiveness. Referrals to gyms and exercise classes were considered by GPs, but concern was expressed about the cost to the patient.

Referral to Alcoholics Anonymous was rarely mentioned. This may be because few GPs claimed their patients were drinking at levels which required this level of intervention.

4.2 Managing multiple SNAP factors

Clinicians were presented with a hypothetical situation of a patient with multiple risk factors, and asked to reflect on how they would proceed with intervention. There was a variety of responses. Some GPs mentioned that they would try and motivate patients to address alcohol problems first, especially if they were drinking at levels high enough to de-stabilize their lives in relation to work and relationships – in other words, if the level of risk was high.

One GP mentioned that if the patient was educated, they would try and address all the SNAP factors in one go. Others were much more focused on assisting the patient in addressing what the patient wanted to do, or had a greater chance of success:

I'd try to sort out what the patient had in mind, maybe he or she wants to do the lot all together as a package, we'd have to come to some agreement as to how the patient wants to address it. But it needs to be patient orientated where possible.

This view that the intervention should be patient-led was the most common. If the patient was unsure how to proceed, and appeared motivated to address all factors, smoking was often considered first, again due to the level of risk. For other GPs, they felt it might be more advantageous to start with diet and/or physical activity, as changes in these areas would result in the patient feeling better more quickly.

In summary, most GPs felt that the factor that is affecting the patient the most should be addressed first (level of risk), but the intervention needs to be tailored to the circumstances of the patient with patient wishes uppermost:

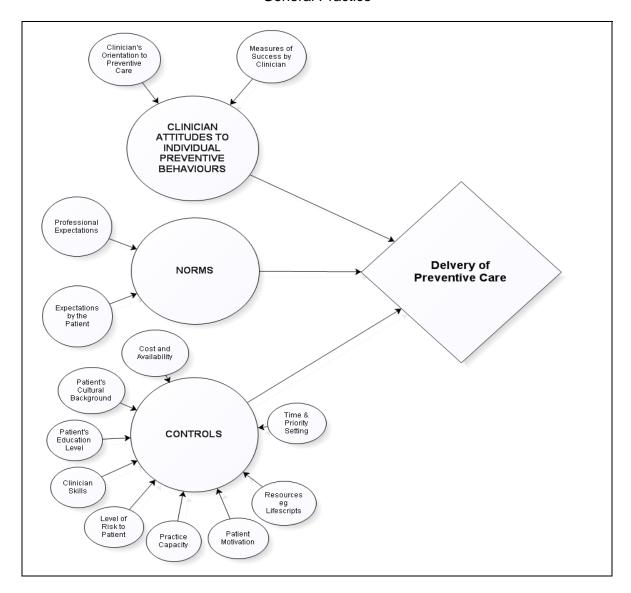
It depends on the patient, yes. It depends on the patient's medical condition and also depends on the patient willingness as well

One clinician mentioned that if all SNAP factors were present, a psychological assessment should be made first.

4.3 The Theory of Planned Behaviour and Delivery of Preventive Care We built on the Theory of Planned Behaviour by Fishbein and Ajzen (1975), Ajzen (1985) that describes how the performance of a behaviour is influenced by attitudes, by expectations (norms) and by hindering or facilitating features (controls).

The factors we identified through our thematic coding as influencing the delivery of overall preventive care, both within and separately to the Health Check consultation, articulated well into this model. Attitudes included the level of clinicians' belief that a certain behaviour would produce a desired outcome, and incorporated the clinicians' feelings about their own effectiveness in promoting behavioural change. Attitudes were strongly influenced by the clinicians' general orientation to the importance of preventive care as well as how they measured a successful outcome. Norms included what the professional community would expect, as well as perceptions of patient expectations of clinician behaviour within the Health Check consultation. With regard to controls, clinicians were most forthcoming in regard to the barriers that made delivery of preventive care more difficult and mentioned such factors as time and patient motivation as key elements.

Model – The Theory Of Planned Behaviour as Applied to Preventive Care Delivery in General Practice



5 Conclusion

In asking GPs to address SNAP lifestyle factors through the 45-49 year old Health Check consultation, it is important to start to understand how GPs view their role in this preventive care, and how they address the individual SNAP factors. This study has focused questions around these influences and behaviours, with the aim of better enabling GPs to provide such care.

Given the complexity of factors influencing GPs' preventive behavior, it is not surprising that a variety of approaches were evident. Variety was demonstrated between different GPs, between individual SNAP factors, and between different patients. However within this variety, commonalities did exist. Smoking for example appeared to produce the most frustration. Another commonality was in the trend for patients to be only partially screened for nutrition and physical activity, with assessment frequently inferred from physiological markers such as weight, cholesterol levels and BMI.

This study provides some insights that will be important in the development and implementation of preventive activities in general practice. The attitudes of general practitioners and their patients towards preventive care strongly influence both screening and intervention behaviour within the context of the health check consultation. Another strong influence is the belief in the likelihood of success of any interventions provided, including the potential success of referrals. Attitudes were also strongly influenced by the general orientation of their practice to the importance of preventive care. However there are also many constraints (controls) which have the power to reduce the amount of preventive care provided, with lack of time and patient motivation perceived to be important barriers.

GPs therefore may not respond to financial incentives such as the new 717 Medicare item for 45-49 year old health checks in a uniform way. Their attitudes, norms and a variety of control factors (as shown in Figure 1) strongly influenced their uptake of this item and how they used it to assess and intervene with their patients. Strategies such as provider education, community awareness raising, support and capacity building based on the factors influencing GP preventive behaviour may potentially be able to improve both the uptake of health checks and ensure a more consistent approach.

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45 - 49 year old Health Check (MBS Item 717)

| Full Patient Details: < <patient demographics:full="" details="">></patient> | GP Details:
< <doctor:full details="">></doctor:full> | Patient agreement for Health Chec My GP has explained the purpose of this permission to discuss my medical history/diag as appropriate. All information will be confiden | assessment and I/my carer give gnosis with other service providers |
|---|---|--|--|
| | | Patient signature (Consent may be | < <miscellaneous:date>> Date verbal)</miscellaneous:date> |

| | Assessment | Advice & Planned Actions | Resources |
|-------------------|--|--|---|
| History | | | |
| Smoking | < <clinical details:smoking="">> <<clinical details:smoking="" quitting="" stage="">></clinical></clinical> | Lifescripts smoking prescription: YES NO | Quitline: 131 848 |
| Diet/Nutrition | Number of portions of fruit and vegetables eaten per day and the types of fat eaten. | Lifescripts nutrition prescription: YES NO | HeartLine: 1300 36 27 87 |
| Alcohol | < <clinical details:alcohol="">></clinical> | Lifescripts alcohol prescription: YES NO | DirectLine: 1800 888 236 - a 24 hour telephone counselling, information and referral services for drug and alcohol related issues |
| Physical Activity | | Lifescripts physical activity prescription: YES NO | HeartLine: 1300 36 27 87 Go For Your Life Info Line: - 1300 73 98 99 |
| Depression | | | Beyond Blue: 1300 789 978 |
| Osteoporosis | | | |
| | | | |
| Examination | | | |
| Body weight/BMI | If left blank, recorded measurements | Lifescripts weight management prescription: YES NO | |

| | are in Progress Notes below | | | | | | |
|---|--|--|-----------------|--|--|--|--|
| Blood pressure | If left blank, recorded measurements are in Progress Notes below | | | | | | |
| Skin cancer | | | | | | | |
| | | | | | | | |
| Tests | | | | | | | |
| Lipids | | | | | | | |
| Diabetes | | | | | | | |
| Cervical cancer | | | | | | | |
| Prostate | | | | | | | |
| Other as appropriate | | | | | | | |
| (e.g. colorectoral cancer, breast cancer) | | | | | | | |
| | | | | | | | |
| Medical History: | | | | | | | |
| | | | | | | | |
| | | | 1 | | | | |
| Family History: | | | Social history: | | | | |
| < <clinical details:family="" history="">> <<clinical details:social="" history="">></clinical></clinical> | | | | | | | |
| | | | | | | | |
| Current Progress Notes:< <summary:progress (current)="" note="">></summary:progress> | | | | | | | |
| General Recommendations (if appropriate): | | | | | | | |

Table of GP characteristics

| GP code used
in report | Gender | Practice size | Practice location socioeconomic status* | Bulk billing ** | SNAP Work priority*** | Freq. of referral for SNAP*** | Perceived effectiveness behaviour change*** |
|---------------------------|--------|---------------|---|-----------------|-----------------------|-------------------------------|---|
| Δ. | N.4 | 4 . | | no | Mod | Low | Mod |
| Α | М | 4+ | highest | no | Mod | Low | Mod |
| В | M | 2-3 | high | yes | High | Mod | Mod |
| С | F | 4+ | high | yes | Mod | High | Mod |
| D | F | solo | lowest | yes | High | Mod | Low |
| E | F | 2-3 | middle | yes | High | Mod | High |
| F | М | solo | highest | no | Low | Low | High |
| G | М | 4+ | high | yes | High | Mod | Low |
| Н | F | 2-3 | high | yes | High | Low | High |
| I | М | 4+ | highest | no | High | Mod | Mod |
| J | F | solo | high | no | Mod | Mod | Mod |
| K | F | solo | high | no | Mod | Mod | Mod |
| L | F | solo | middle | yes | Mod | Mod | High |
| М | F | 4+ | highest | no | n/a | n/a | n/a |
| N | М | 4+ | highest | no | n/a | n/a | n/a |

^{* =} quintile of disadvantage based on 2001 SEIFA quintiles

^{** =} generally bulk bills all Medicare card holders

^{*** =} results from post-intervention survey