#### **Grampians Region Community Nursing Forum – 28th June 2017**





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**Ballarat Community Health** 

Session One	The role of nutrition in older people:
Session Two	Identifying nutritional risk
Session Three	Nutrition interventions
Session Four	Investigating Capacity to Access Nutrition
Session Five	Embedding a nutrition care pathway into practice



# **Eating for Independence**

Implementing a nutrition care pathway for identifying & assisting older people living in the community

(Hume Region Home and Community Care Program 2016)

#### **Session One**

The role of nutrition in older people

Presented by: Amy Trotter

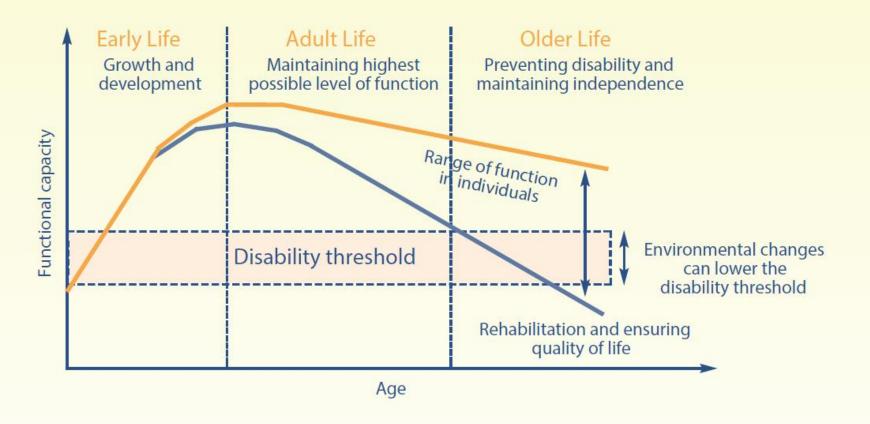
### The role of nutrition in older people:

1. Discuss the impact of nutrition on health & wellbeing

- 2. Understand how the Australian Dietary Guidelines apply to older people
- 3. Describe the main energy and nutrition needs of older people



# Poor nutrition can speed up the natural decline in functional capacity as we age

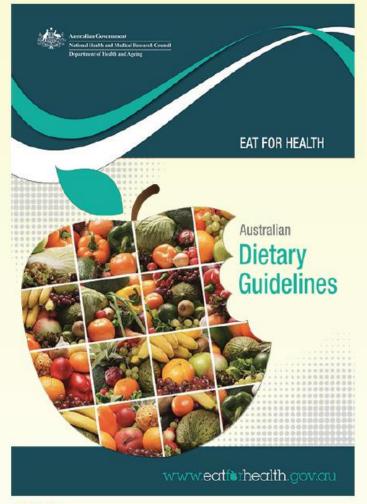


# **A Vicious Cycle**



# The Australian Dietary Guidelines

"Older people should eat...to help maintain muscle strength"



NHMRC 2013





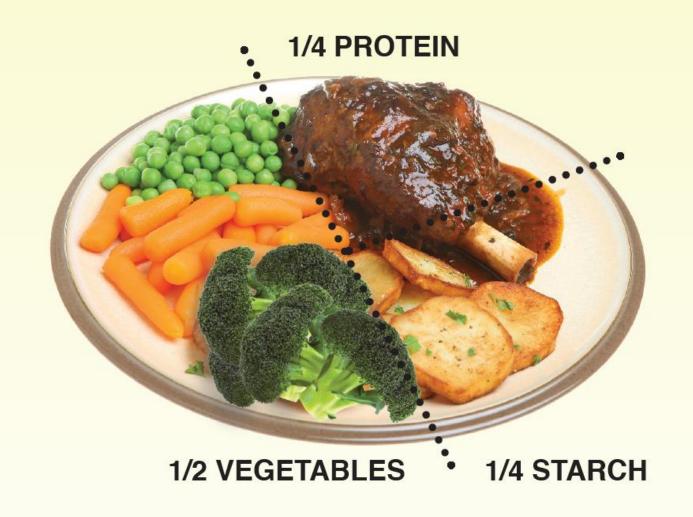
"I don't need to eat as much because I'm not as active as I used to be"



# General guide to daily serves

NUMBER OF SERVES	FOOD GROUPS	
5 - 6	Vegetables	
2	Fruit	
3 - 6	Grains	
2 - 3	Meat and alternatives	
2.5 - 4	Dairy and alternatives	
8 - 10 cups	Fluids	

NHMRC 2013



## **HIGH PRIORITY FOODS**

High energy - high protein

Dairy products

Lean meats (red, white, fish)

Eggs

Nuts

Discretionary foods – cakes, pastries





# **Meat and Meat Alternatives**





#### TAKE HOME MESSAGES

Nutrition impacts on health & wellbeing in many ways

Important to eat well and be active to maintain muscle strength

Remember the high priority foods

Nutrient requirements are not reduced even if doing less

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# Learning Activity:

Is this person eating well?

Diet history			
Breakfast	Lunch	Tea	
1/2 bowl cereal with low fat milk	Tomato soup (MOW)	Roast chicken, 2 thin slices (MOW)	
1 grain toast with butter and jam	Apple or orange	Roast potato, 1 small piece	
Coffee, dash of milk and 1 sugar	Glass of water	Roast pumpkin, 1 small piece	
Water with medications		Peas, ½ cup	
		Fruit salad and custard (MOW)	
Morning Tea	Afternoon Tea	Supper	
Black tea with 1 sugar	Black tea with 1 sugar	2 pieces dark chocolate	
	Fruit cake	1 supplement (3 scoops) with low fat milk	
Checklist			
Food Group	Recommended Number of Serves	Actual Number of Serves	
Meat and alternatives	21/2		
Fruit	2		
Vegetables	5		
Dairy and alternatives	31/2		
Grains	41/2		
Fluids	6 - 8		
High priority foods? red meat chicken fish eggs nuts			
milk yoghurt cheese ice-cream custard			
cakes, pastries Other: supplements, chocolate, jam, sugar, butter			



# **Session Two** Identifying nutritional risk Presented by: **Natalie Sutton**





# WHY DO WE WANT TO KNOW IF SOMEONE IS AT NUTRITIONAL RISK?

Nutritional risk and malnutrition is associated with poor health, falls, loss of independence

Dietetic intervention has been shown to be effective in treating malnutrition

For every \$1 spent on improving nutrition in older people, \$5 is saved on health care costs

Leggo et al. (2008), Rist et al. (2012)

# Identifying nutritional risk





#### WHAT IS A HEALTHY WEIGHT?

BMI is used as a measure of body size and is classified as:

Less than 18.5kg/m<sup>2</sup> = Underweight

18.5 - 24.9kg/m<sup>2</sup> = Healthy weight

 $25 - 29.9 \text{kg/m}^2$  = Overweight

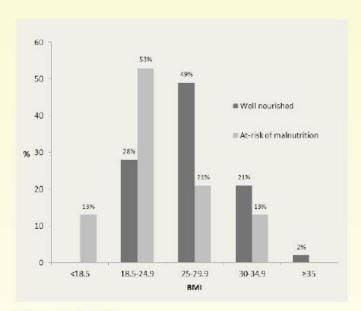
Greater than 30kg/m<sup>2</sup> = Obese

Upper range of BMI may be more appropriate for older people

Improving blood pressure and cholesterol may be more appropriate for overweight older people than reducing weight

**NHMRC 2013** 

### BMI in well nourished and at-risk people



Winter et al. 2013

- 1 in 6 at risk of malnutrition
- More than 1/2 those at risk had a BMI in the healthy range
- Almost 3/4 of those who were well nourished had a BMI in the overweight or obese range

#### WHAT IS MALNUTRITION?

Mal = bad or abnormal, nutrition

"Where a deficiency or excess of energy, protein, and other nutrients causes measurable adverse effects on tissue / body form (body shape, size & composition) and function and clinical outcome"

Watterson et al. 2009

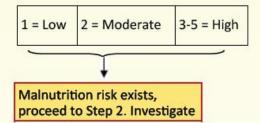
Signs of Malnutrition	
Visual	Non Visual
Unintentional weight loss	Poor mental health/depression
Skin – dry, pale, scaly	Muscle Weakness
Hair – brittle, falling out	Fatigue, dizziness
Teeth – decayed	Frequent infections
Pressure areas	Chronic diarrhoea
Muscle wastage/protruding bones	Bone and joint pain
Poor wound healing	

## Nutrition Screen ICAN: Investigating Capacity to Access Nutrition

## WHAT is the degree of malnutrition risk?

Score the following questions:	Score	
Has client lost weight without trying in the last 6 months?	No	0
	Unsure	2
	Yes 1-5kg	1
	Yes 6-10kg	2
	Yes 11-15kg	3
	Yes >15kg	4
Is client eating poorly due to reduced appetite (< 3/4 usual	Yes	1
intake)?	No	0

#### Add scores & circle the degree of risk:

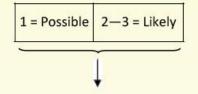


Ferguson et al. (1999)

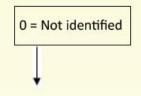
#### WHAT is the potential for nutritional risk?

Score the following questions:		Score
Has client had any recent changes that have affected what they eat, how they prepare meals or how they shop?	Yes	2
	No	0
Do you have any concerns about client's ability to have an adequate diet?	Yes	1
	No	0
<del>-</del>	Ť	-

#### Add scores & circle the degree of risk:



Opportunity exists for improving nutrition. If client wishes to address this, proceed to Step 2. Investigate



No further action required at this point in time



0 = Unlikely

Screen for nutritional risk

#### Pedro: 80 year old, recent widower

Doesn't know how to cook many dishes

Has been eating cereal and toast, as he knows how to prepare these

Not confident to do grocery shopping

Otherwise physically well and reports no weight changes

#### Use the ICAN screen to complete the following

- 1. Is this client at nutritional risk?
- 2. Determine the potential for nutritional risk

#### TAKE HOME MESSAGES

Malnutrition is difficult to identify by observation alone.

A person regardless of their weight, can be malnourished or at nutritional risk.

There is evidence that older people with a BMI in the overweight category on average live longer without disability than people with a BMI in the healthy weight range.

The use of a validated screening tool can identify the potential for malnutrition /nutritional risk.

Early identification of clients at risk = early interventions = better outcomes

# **Session Three Nutrition Interventions** Presented by: Alicia Shirley

# **Introduction to Allied Health:**

**Dietitian** 

**Occupational Therapist (OT)** 

**Physiotherapist (PT)** 

**Speech Pathologist** 

## **Dietitians**

- ✓ Offer health advice
- ✓ Support skill building
- Promote emotional wellbeing



#### DIETITIANS OFFER HEALTH ADVICE

#### Healthy eating /dietary guidelines

#### Acute /chronic conditions

- Those which can be managed with diet: e.g. diabetes, cardiovascular disease, food allergies and intolerances, constipation, diverticular disease
- Those which alter nutrition needs: e.g. wound healing, respiratory illness, neurological conditions, gastrointestinal disorders, liver and kidney disease, cancer

# Dietitians support skill building

- ☑ Meal planning
- ☑ Recipe ideas
- ☑ Food choices
- ☑ Grocery shopping
- ☑ Reading food labels





# Dietitians promote emotional wellbeing

- ✓ Eating with others
- ✓ Food enjoyment
- ✓ Healthy eating behaviours
- ✓ Lifestyle changes

...via motivational interviewing and solution focused coaching





## Zelma: 74 year old lady, lives alone

Admitted to hospital after accidently tripping over at home; no major injuries.

Overnight stay then discharged home.

#### Referred to Dietitian for weight loss

Weight 80kg, Height 1.6m, BMI 31kg (obese)

High blood pressure (managed with medication)

Osteoarthritis in knees (using painkiller daily)



#### to a Dietitian

- ✓ Making a referral
- ☑ Reason for referral
- ✓ Waiting Lists

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#### **Occupational Therapy & Nutrition**

Enabling people to feel more confident in their activities and environment





#### WHAT IS OCCUPATIONAL THERAPY (OT)?

"The primary goal of Occupational Therapy is to enable people to participate in the activities of everyday life."

Occupational Therapists achieve this by working with people to enhance their ability to engage in the activities they want to, need to, or are expected to do, or by modifying the activity or the environment to better support their independence and safety.

Therapy Choices 2015

#### OT INTERVENTION

Helping clients regain or enhance safety and independence with their daily lives

Prescription and education of clients and carers in the use of adaptive equipment

Home assessment and modification (access, moving around the home, doorways, lighting, steps, bathroom, falls hazards e.g. pets, cords, mats, clutter)

Individual and group programs and activities

Strategies for memory and cognition (organising & taking medications, appointments, managing your finances etc.)

Occupational Therapy Australia 2015

Client Story: Gloria	
67yrs, lives alone, widowed 2006	
Parkinson's Disease diagnosis 200	)4
Osteoporosis & Osteoarthritis	
Poor mobility, numerous falls	
Personal care for showering	
MOW 4 days / week	



#### Gloria's goals

To enjoy food again

To make own meal choices

To enjoy cooking again

#### **OT REVIEW**

Numerous falls in kitchen

Dangerous use of oven & stove top

Difficulty moving items from one area to another due to "freezing"

Case Management

Limited ability to chop /use knife

#### DIETETIC REVIEW

10kg loss of weight in 12 months

Lost interest in food as ability to cook declined

Forced to rely on MOW, convenience meals and takeaway foods

Apathy & depression

Reliance on services

# CARE TEAM INTERVENTIONS Equipment Reorganisation of workspace Recipes from Dietitian to use new cooking methods Community care worker assistance with meal preparation Case management and care coordination



To an Occupational Therapist

- Making a referral
- ☑ Reason for referral
- ☑ Waiting Lists

#### References

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## Nutrition Interventions

A Physiotherapy perspective



#### WHAT IS PHYSIOTHERAPY?

"Physiotherapy is a healthcare profession that assesses, diagnoses, treats, and works to prevent disease and disability through physical means.

Physiotherapists are experts in movement and function who work in partnership with their clients, assisting them to overcome movement disorders, which may have been present from birth, acquired through accident or injury, or are the result of ageing or life-changing events."

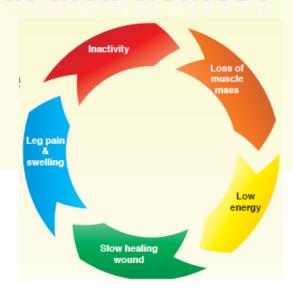
#### **Physiotherapy Intervention**

#### **Physiotherapy Intervention:**

- Exercise programs to improve mobility and strengthen muscles
- Joint manipulation and mobilisation to reduce pain and stiffness
- Muscle re-education to improve control
- Airway clearance techniques and breathing exercises
- Soft tissue mobilisation (massage)
- Acupuncture
- Hydrotherapy
- Assistance with use of aids, splints, crutches, walking sticks & wheelchairs.

### Physical issues

What are some of the challenges older people face in their homes?







to a Physiotherapist

- ✓ Making a referral
- Reason for referral
- Waiting Lists

#### References

- Occupational Therapy Australia Ltd (2014) 'Therapy Choices,' Available from: http://therapychoices.org. au/pages/physiotherapists.html, accessed October 2015
- Australian Physiotherapy Association Website, "What sort of treatment do physiotherapists use?"
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## Speech Pathology and Nutrition

Supporting community participation and safe swallowing



#### WHAT DOES A SPEECH PATHOLOGIST DO?

#### Communication:

Understanding what people say

Putting words together to express needs and wants, to complex thoughts and ideas (cognition, attention, memory)

Moving muscles to articulate speech

Non-speech strategies to communicate

#### Swallowing:

Assess swallow safety, including structure and function of anatomy

Recommend specific management strategies to assist with a safe swallow or recommend non-oral options if necessary

Supporting meal planning and preparation - appropriate consistency /texture

Speech Pathology Australia 2015



#### **COMMUNICATION PROBLEMS**

Speech: involves saying the sounds in words so that people can understand what is being said. E.g. slurred speech, inaccurate speech

Language: understanding language, expressing needs

Voice: using the vocal cords or voice box to produce speech, e.g. low volume or rough voice quality

Fluency: e.g. stuttering

Social Communication: is how we communicate and involves interpreting the context of a conversation, understanding non-verbal information and the social rules of communication that are needed to develop a relationship with another person.

Cognitive communication: e.g. memory, planning, sequencing, organising



#### SIGNS OF SWALLOWING DIFFICULTIES

Person complains of food / fluid / tablet sticking in throat after swallow

Coughing, choking, throat clearing, gagging when eating & /or drinking

Gurgly /wet voice when eating or drinking

Difficulty /slow chewing

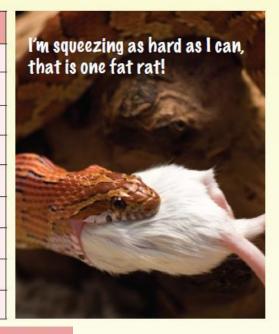
Holding food /fluids /tablet in mouth

Some food /fluid /tablet remains in mouth after swallow

Multiple swallows needed to clear mouth or throat

Report of chest infection(s)

Refusal to eat /drink



Dehydration	Malnutrition
Choking	Aspiration / Pneumonia
Social isolation	Confidence

Decreased meal satisfaction

#### SPEECH PATHOLOGY INTERVENTION

Strategies and exercises for safer swallowing

Recommendations for texture modified foods and fluids

Therapeutic exercises and strategies for speech and language, and cognitive communication including memory, sequencing and planning

Prescribe and educate on use of Augmentative and Alternative Communication (AAC)

#### CARE TEAM INTERVENTIONS

Safe swallowing exercises and techniques to minimise coughing at meal times

Soft diet texture to assist with safe and efficient swallow

Recipes and meal ideas from the Dietitian for new texture

Community access cards so that David can easily order when he eats out

Picture based shopping list so that David can participate in shopping more



#### References

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#### TAKE HOME MESSAGES

Look at the bigger picture when thinking about strategies to improve nutrition; don't stop with a quick fix solution

Improving access to nutrition can be achieved with a range of multidisciplinary strategies

Dependence vs Independence: consider varying levels of support to progress a person towards a restorative outcome



#### **NUTRITION INTERVENTIONS**

What new strategies have you learnt about that may assist clients at nutritional risk to increase their access to nutrition?

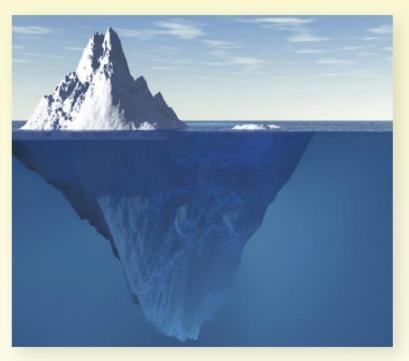
#### **The Restorative Scale**



Independence Dependence

# **Session Four Investigating Capacity to Access Nutrition** Presented by: Ashley Webb

The 'tip of an iceberg' is only 10% of its mass



National Geographic website, 2015

# Investigating Capacity to Access Nutrition Learning Outcome

Use a nutrition care pathway to identify and adequately address nutritional risk in older people living in the community.



#### **INVESTIGATING CAPACITY TO ACCESS NUTRITION**

1. Screen for malnutrition /nutritional risk

WHAT is the degree of risk?

2. Investigate the potential cause(s)

WHY is the client at nutritional risk?

4. Act to address risk

**HOW** will the client be best supported?

Case Study: Pedro			
No weight loss or a Unlikely to be at m			
Recently lost partner = 2	Diet = 1	Score of 3	
Potential for nutriti	onal risk is likely		

#### STEP 2. INVESTIGATE THE CAUSES OF RISK

#### Screening detected risk through:

weight loss, reduced food intake, changes to eating, cooking, shopping, and /or diet concerns

#### Are these factors due to:

- 1. Health Status?
- 2. Physical Access to food?
- 3. Knowledge /Skills deficit?

#### **HEALTH STATUS**

#### The main causes of Malnutrition are:

- Impaired food intake
- Impaired digestion or absorption
- Increased or changed metabolic demands
- Excess nutrient losses

NICE Clinical Guidelines 2006

#### PHYSICAL ACCESS TO FOOD

Anything that physically impedes a person being able shop for food, prepare meals or eat food could put them at nutritional risk

- Physical disability or impairment
- Mobility or transport difficulties
- Cognition or memory impairment
- Communication with others
- Dental issues

#### KNOWLEDGE /SKILLS

Not having up to date, or adequate knowledge or skills to shop, cook or make appropriate food choices can be a barrier to good nutrition

- Special diet to manage a health condition?
  - Up to date advice about this in last 12months?
- Recipes /meal repertoire, cooking skills?
- Food choices, portion control?

#### STEP 3. ACT TO ADDRESS RISK

#### HOW WILL THE CLIENT BE BEST SUPPORTED?

Will intervention be restorative? Is the client aiming for a functional gain or avoidance of apreventable injury?

 Care plan needs to be goal directed, time limited and reviewed regularly

Will intervention be supporting maintenance? Is the client aiming to maintain the status quo?

 Care plan remains static, intervention is ongoing and reviewed less frequently

#### SMALL GROUP ACTIVITY

Step 1: WHAT is the degree of malnutrition /nutritional risk?

Step 2: WHY is the client at risk in relation to their health status, physical access to food and knowledge /skills around food?

Step 3: HOW will the client be best supported, in order of priority?

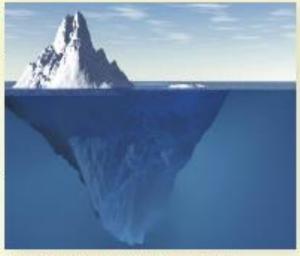
Will the care plan be reflective of restorative care or
maintenance support?

#### TAKE HOME MESSAGES

The obvious signs of nutritional risk are only part of the problem. To address the risk adequately, you need to investigate the underlying causes

Explore health status, physical access & food knowledge /skills

Will care be restorative or support maintenence?



National Geographic website, 2015



#### References

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- Department of Social Services Department of Social Services (2015) 'Living well at home: CHSP Good Practice Guide'
   Commonwealth of Australia

# **Session Five** Embedding a nutrition care pathway into practice Presented by: Ashley Webb

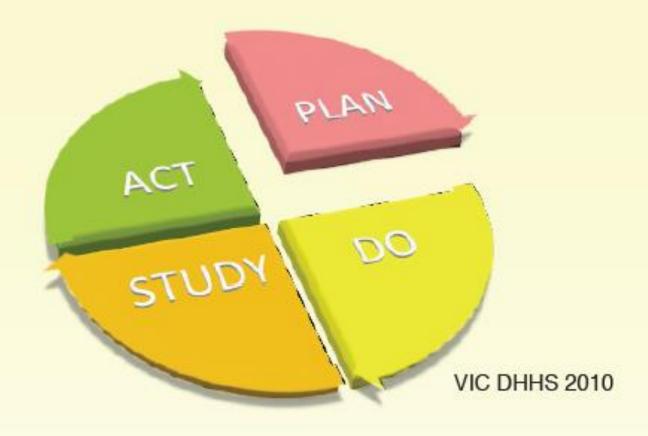


## Embedding a Nutrition Care Pathway into practice Learning Outcome

Develop a plan for embedding a nutrition care pathway into practice.



#### **Model for Improvement**



#### PERCEIVED BARRIERS

Referrals to Dietitians and other Allied Health

Clients motivation

Use of ICAN

- Not enough time
- Already ask about nutrition
- Others not on board

Care plans and care coordination



### How might you overcome barriers to using the ICAN in practice?



#### Plan for embedding ICAN into practice What is one thing you will need to do to:



- Adopt or improve nutrition risk screening in your practice?
- Offer more restorative nutrition interventions to your clients?

#### TAKE HOME MESSAGES

Knowledge is of no value, unless you put it into practice.

(Anton Chekhov)

Look for ways to overcome barriers to nutrition risk screening and restorative care

Plan Do Study Act – start with small changes

Skills Consolidation - practice, reinforce

#### References

- State of Victoria, Department of Health (2010) 'The
  Plan Do Study Act (PDSA) Model for Improvement
  Project.' Published by the Integrated Care Branch,
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  Victoria.
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   Rural Health Education Foundation, Australian
   Government Department of Health and Ageing

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- > DHHS Hume Region
- > Training participants