

Farmers Have Hearts

The effectiveness of a cardiovascular workplace health promotion intervention for Irish farmers.

Diana van Doorn¹
Dr Noel Richardson¹
Dr Aoife Osborne²

1National Centre for Men's Health, IT Carlow 2UCD School of Agriculture and Food



FARMERS
HAVE HEARTS
YOUR HEART
HEALTH RECORD

A personal lifestyle plan

Farmers Have Hearts Context

HSE- contracted IHF to the FHH 2013/14 project

- 1000 Cardiovascular Health Checks
- 4 Counties (Cavan, Mayo, Longford & Cork)
- To identify farmers with CVD risk factors
- To provide cardiovascular health information & promote positive behaviour change
- Evaluation



Health inequalities farmers

Mortality rates farmers:

7 x Heart / vascular diseases

5 x Any cause of death

3x Cancer

(Smyth et al., 2012)

Over recent decades, Irish farmers have experienced the lowest reduction in mortality rates of all socio-economic groups

(Layte et al., 2014)



Key factors underpinning health inequalities among farmers

- Lower socio-economic group
- Lower educational attainment
- Rural living conditions
- Social exclusion
- Gender
- 'Hard to reach' group

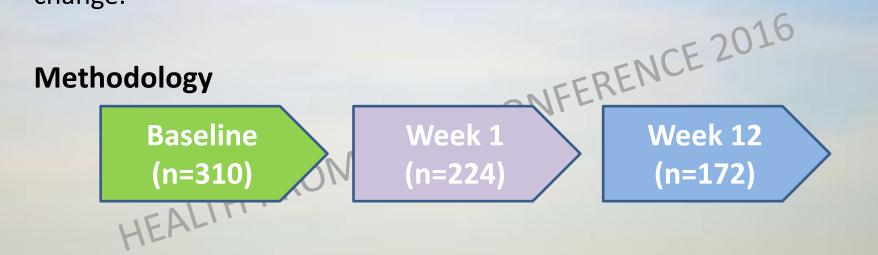


Smyth et al., 2012; CSO, 2012, Welch, 2000, Cleary et al., 2012; Walsh, 2010; National Rural Health Alliance, 2011

FHH Evaluation

To investigate the impact of the Farmers Have Hearts (FHH)

Programme on Irish farmers specifically in relation to health behaviour change.



- Insight into the cardiovascular health status of participating farmers
- Follow-up use of GP services
- Behaviour change (contemplation and action)
- Evidence base on how to engage with farmers in relation to health

Socio demographic background

Age (n=224)	%	Farming enterprise (n=224)	%
<35	6	Dry cattle	42
35-44	19	Cattle rearing	29
45-54	30	Dairy	11
55-64	27	Dairy & cattle	9
≥65	18	Sheep	5
Marital Status (n=223)	%	Other	4
Married / cohabiting	72	Full time or part time farming (n=224)	%
Single	22	Full time	55
Separated / divorced	5	Part time	45
Widowed	1	Education level (n=224)	
Living arrangements (n=224)		Primary only	21
Living alone	15	Some or completed secondary	61
Not living alone	85	Some or completed Third level	18

Cardiovascular health status farmers

Objective Measured health outcomes	%
Blood pressure (≥ 140/90 mmHg)	46
Total cholesterol levels ≥5.0 mmol/L	46
LDL levels (>3.0 mmol/L)	44
Overweight (BMI kg/m ² 25.0-29.9)	51
Obese (BMI kg/m2 ≥30.0)	36
'At risk' (37-40 inches) waist	42
'High risk' (>40+ inches) waist	38

Self-reported health and lifestyle behaviours

Self-reported health and lifestyle	%	
Family history	82	
Lack of physical activity (<5 days a week)	35	
Stress Most of the time	64 16	
Alcohol use >17 standard drinks per week	46 25	
Smoking	18	

Risk factors for cardiovascular health

Total Blood pressure ≥ 140-159/90/99

Total cholesterol >5.0 mmol/L

HDL cholesterol <1.0 mmol/L

LDL cholesterol ≥3.0 mmol/L

Triglycerides ≥2.0 mmol/L

Blood glucose levels ≥7.0 mmol/L

BMI kg/m2 ≥ 25(Overweight)

High Waist circumference ≥37 inches

Family history of Heart disease, Stroke or Diabetes

Tobacco use

Regular alcohol use

Standard drinks per week >17

Physically inactive; less than 5 days a week active

Stress ('often'/'most of the time')

81% of farmers four or more risk factors for CVD

Follow-up use GP services

Baseline:

■79% advised to see their GP

Week 1:

- ■11% reported having visited their GP
- ■45% 'planning' to visit GP\

Week 12:HEALTH PF

In total 32% reported having visited their GP as direct result of the cardiovascular health check



Behaviour change

Behaviour change (Self-report)		1 (n=224) emplation	Week : Action %	12 (n=172)			
Yes	74		48				
Types of behaviour change							
Diet	64		89				
Physical activity	35		93				
Smoking habits	56	(n=27)	36	(n=14)			
Alcohol consumption	12	(n=74)	29	(n=38)			
Stress management	4	(n=135)	17	(n=66)			
Other	13						
Perceived positive impact of health behaviour change on health							
(n=81)							
Yes			65				

Behaviour change

Contemplating change

'Healthy' total cholesterol Making change PROMOTION CONFERS (<3.0 mmol/l)

BMI HEAD (≤5.0 mmol/l) and/or LDL

- -Waist circumference

'Healthy' BMI (≤24.9) circumference (<94cm)

What works in terms of engaging farmers in health



of farmers would not have attended a health check if it was not for the FHH programme.

- Personal approach IHF staff (18%)
- Opportunistic nature (13%)
- Furthermore: Settings based (workplace), convenient location, time, conditions and peer support

Conclusions FHH Evaluation

- Addressed a health need
- Reach beyond 'worried well'
- Encouraged more proactive health behaviours
- Informed best practice approaches to engaging farmers in relation to health interventions



Recommendations

- Expansion of health promotion targeting Irish farmers
- Follow-up use of (preventive) health services
- Local support networks and peer support
- More research needed specifically in relation to obesity and stress among farmers









More information:

www.irishheart.ie

Report:

www.irishheart.ie/media/pub/farmershavehearts_evaluation 2014.pdf

Diana van Doorn diana.vandoorn@itcarlow.ie