



The Counterweight Programme Project board includes national key opinion leaders on obesity Specialist team of Weight Management Advisers (dietitians & nutritionists) train and mentor Practice Nurses in weight management, to competency Weight management "In the Wild" Central data collection, analysis and feedback

 Ongoing programme enhancement using Continuous Improvement Methodology (includes RCTs, audit, qualitative research etc)







Counterweight: Effectiveness data

- Model considers impact of the 12 month observed outcomes of the Counterweight Programme
 45% follow up attendance at 12 months
 Mean weight loss of 3kg
- Assume no impact on the non-attending 55%
 Weight gain 1 kg/year as in in non-intervened obese population
- Scenarios considered:
 Base case: weight lost is regained over the next two years
 Best case: weight loss is maintained over the individual's life

Both of these - then revert to 1 kg/year weight gain

The Counterweight Project Team (2009) Obesity



















Counterweight Process

- Centralised nurse training
- □ Whole practice meeting
- Recruit appropriate patients
- **G** 6 months of support and mentoring in practice
- Consolidation session
- Training of a buddy dietitian

Training for Clinicians

- Causes of obesity
- Healthy eating and physical activity
- Energy Balance
- Weight loss expectations
- Behaviour change strategies
- Pharmacotherapy
- Weight loss maintenance

Patient Intervention

- □ Aim to achieve \geq 5-10% weight loss
- Educational programme using behaviour change strategies
- 6 appointments or group sessions over 3 months
- Weight loss maintenance
- Quarterly follow up for 1 year
- Annual reviews

Practice Commitment

- Offer nurse-led weight management (approx 3 hours per week, 150 hours per year)
- Recruit 25 patients per trained staff per year
- Offer each patient 6 appointments over 3 months, then follow up quarterly for 12 months
- Offer individual appointments of 10-30 minutes duration, group appointments 1 – 2 hours duration
- Collect data on obesity template

Evaluation

- □ Height, weight, BMI, waist circumference
- Number of patients offered weight management intervention
- Number of patients attending Counterweight service
- Proportion of patients attending agreed number of appointments
- \square Number and proportion achieving weight loss target of ${\geq}5\%$

Continuous Improvement

- Incentives are offered in some areas to assist general practice buy-in
- Evaluation in different community settings and pharmacies
- Training programme refined after initial research phase
- All training materials refined after qualitative research
- Tracking of process of Counterweight implementation
- New process for evaluation developed

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Health Boards	Oct -06	Jul -07	Jan -08	Jun -08	Oct -08	Feb - 09	May -09	Sept -09
Lanarkshire		333	596	659	880	1112	1352	1407
Lothian		126	337	514	765	808	938	992
Tayside		0	67	121	171	210	246	302

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National Aggregate Data: Patient Numbers Enrolled in Counterweight

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Health Boards	Oct -06	Jul - 07	Jan -08	Jun -08	Oct -08	Feb - 09	May -09	Sept -09
Forth Valley					5	24	57	73
Shetland					15	25	95	109
Dumfries & Galloway							4	4
Highland							31	64
Western Isles								3
Borders								
Orkney								
Total Waves 1,2 & 3		459	1000	1294	1858	2202	2829	3156

Baseline Characteristics						
	National Aggregate					
Total Numbers	3156					
% Females	74					
% Males	26					
Mean age	54					
Mean BMI (range)	37 kg/m ² (28-68)kg/m ²					
% with BMI>40 kg/m ²	24					
% with BMI>50 kg/m ²	3.9					

National Aggregate Data: Attendance and Weight Change Outcomes

3 months	6 months	12 months
Enrolled >3m prior n = 2320 Attended 3m appt n = 1355 (58%)	Enrolled >6m prior n = 1989 Attended 6m appt n = 665 (33%)	Enrolled >12m prior n = 1402 Attended 12m appt n = 342 (25%)
Wt change in patients attended mean loss (kg) = 2.5 ≥ 5% loss = 19%	Wt change in patients attended mean loss (kg) = 3.7 ≥ 5% loss = 35%	Wt change in patients attended mean loss (kg) = 4.0 ≥ 5% loss = 35
Wt change in all at time point ≥ 5% loss = 11%	Wt change in all at time point ≥5% loss = 12%	Wt change in all at time point ≥5% loss = 9%

Regional Data: Baseline Characteristics											
	Lanark	Lothian	Tayside	Ayrshire & Arran	Fife	Grampian	Shetland	Forth Valley	Dumfries & Galloway	Western Isles	Highland
Patients enrolled	1407	992	302	85	112	5	109	73	4	3	64
% Female	70	75	79	78	81	80	78	86	75	100	80
% Male	30	25	21	22	19	20	22	14	25	0	20
Mean age	54	54	51	54	55	51	48	49	55	61	54
Mean Baseline BMI (range) kg/m ²	36 (28- 68)	37 (28- 68)	36 (28- 53)	37 (29-57)	37 (29- 58)	39 (29-45)	33 (30-37)	38 (28- 63)	43 (37-49)	37 (28- 59)	36 (28-56)

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		Lanark	Lothian	Tayside	Ayrshire & Arran	Fife	Shetland	Forth Valley	Highland
	Attenders Started >3m prior	665 1132	454 818	111 174	25 35	6 17	46 63	21 34	6 6
	% Attendance	58	56	64	69	35	73	62	100
	Attenders Mean weight loss (kg) % >5% loss	2.2 15	2.2 25	2.5 22	3.7 32	2.1 0	1.0 6.5	3.2 33	4.8 33
	Started >3m prior % >5% loss	9	14	14	22	0	4.7	21	33

Regional Data: 6 month weight change outcomes & attendance rates

	Lanark	Lothian	Tayside	Ayrshire & Arran	Shetland	Forth Valley
Started >6m prior Attenders	1031 409	752 184	130 44	5 3	15 9	9 2
% Attendance	40	25	34	60	60	22
Attenders Mean weight change (kg) % >5% loss	3.53 33	4.32 25	3.6 41	3.0 67	2.08 44	0.15
Started >6m prior % >5% loss	13	9.3	14	40	27	0

Regional Data: 12 month weight change outcomes & attendance rates

	Lanark	Lothian	Tayside
Started >6m prior Attenders	770 174	524 170	76 16
% Attendance	23	21	21
Attenders Mean weight change (kg) % >5% loss	4.54 41	3.34 34	3.32 31
Started >6m prior % >5% loss	9.3	9.3	6.5

