

Evaluation of MoveMore: A Physical Activity Behaviour Change Intervention for People affected by Cancer

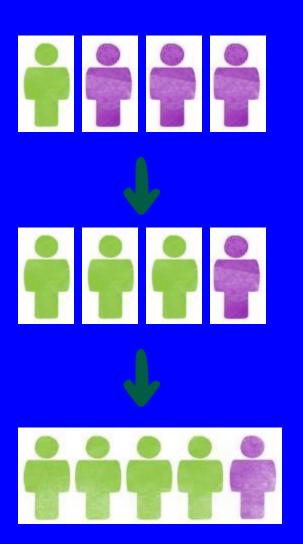
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3 in 4 people living with cancer are in the survivorship stage¹

1 in 4 of them deal with consequences of their treatment²

1 in 5 of cancer survivors may have unmet needs³

The problem....



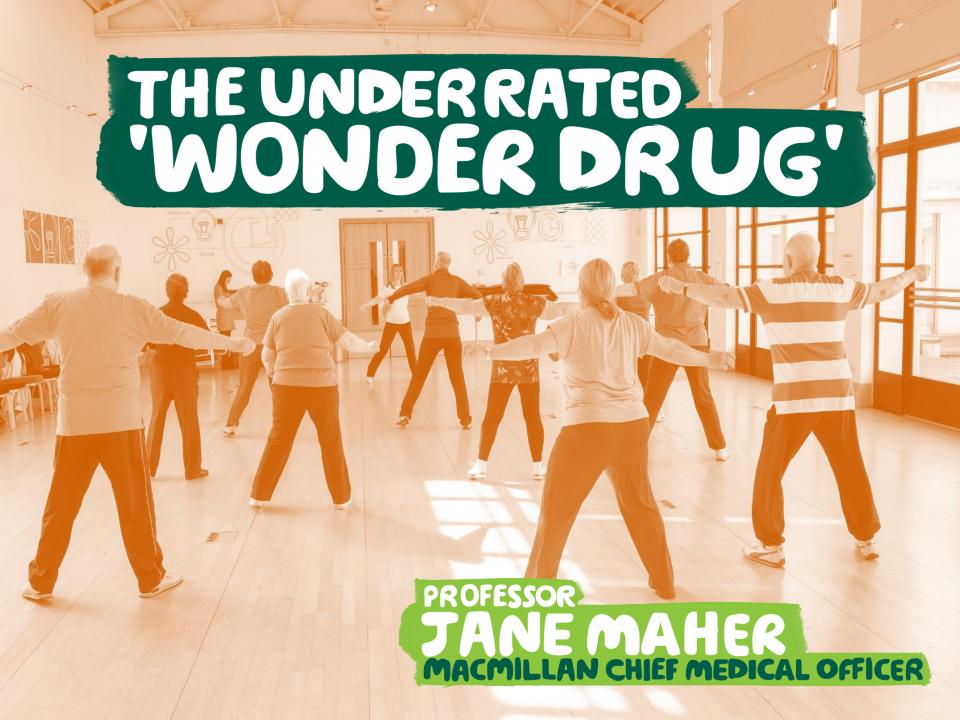
Chronic / late appearing side effects of cancer treatment:

Physical

- Fatigue
- Weight changes
- Reduced fitness C/V & MSE
- Endocrine problems
- Osteoporosis
- Cardiotoxicity
- Lymphoedema
- Limited range of movement
- Pain and arthralgia
- Sexual dysfunction
- Incontinence

Psychological

- Lack of confidence
- Loneliness
- Social isolation
- Changes in body image
- Anxiety
- Depression
- Cognitive dysfunction
- Loss of control
- Self esteem
- Helplessness





MACMILLAN PHYSICAL ACTIVITY BEHAVIOUR ANGE CARE PATHWAY A formative evaluation.

Authors: Jon Adamson', Alex Stutz', Neil Richards', Dr Melvyn Hillsdon', Prof. Jenny Roberts', Rhian Harlack', Sarah Worbey', Jo Faster', Justin Webb' CFE Research, "University of Exeter, "University of Sheffield, "Macmillan Cancer Support





MACMILLAN PHYSICAL ACTIVITY PATHWAY

People at any stage of their cancer journey **Health** and Community social care Local physical Extended brief Very brief advice Intervention activity 30-60 seconds opportunities 30-60 minutes **Brief** advice 5-10 minutes Ongoing behaviour change support service minimum 12 months

"Everyone living with and beyond cancer is aware of the benefits of physical activity and enabled to choose to become and to stay active at a level that's right for them"

A framework for Edinburgh Napier physical activity behaviour change



- Based on Based on NICE Public Health Guidance 49: Behaviour change individual approach
- Macmillan invested £6 million 2012-2018 in MoveMore Intervention in Scotland, England, Northern Ireland and Wales

Raise awareness (Very brief advice / Brief intervention)

Referral

Behaviour Change (Extended brief intervention)

Local physical activity opportunities

Ongoing behaviour change support

Awareness raising

- Health and wellbeing events (attend, present)
- Attend patient support groups
- Social media
- Local media (radio, newspaper articles)
- Banners, posters and leaflets
- Engagement with other services (for example, Macmillan Information Services, other charities)
- Holistic Needs
 Assessment (as part of the Recovery Package)
- Champions, former service users
- Events, campaigns

Key referral routes

- Self-referrals
- Healthcare professionals
 - o CNS
 - o Consultant
 - o GP
 - Physiotherapist
 - Practice Nurse
 - Occupational therapist
 - o Oncologist
- Electronic referral possible
- Feedback provided to HCPs

Principles

- Lasts at least 30 minutes
- Needs assessment
- Activity levels
- o Contraindications
- Cancer status
- Safety and appropriateness
- Address barriers to change
- Instils confidence to change
- Uses MI
- Sets goals

Minimum offer

- Access to Macmillan Move More DVD
- Access to health walks
- Encouragement to increase activity in daily life
- Access to sports
- Access to community activity
- Access to cancer specific sessions
- Signposted or delivered directly

Support post activity

- Long term support agreed at intervention
- System in place to review progress during activity
- Informal support offer

Delivery

- Face-to-face / telephone / group
- Healthcare / community / leisure setting
- Practitioner trained in motivational interviewing and level 4 cancer rehabilitation

Support during activity

- Long term support agreed at start
- Review progress
- Informal support



The evaluation (2014-2017)

- Phase 1: 6 pilot sites
- Phase 2: final total of 14 sites
- Quantitative data on outcomes
- Ethnographic observations of services
- Qualitative interviews with staff, stakehold and service users
- Formative process evaluation
- Economic analysis

Cost of £600,000!



National Evaluation Methodology CaPASEF: Outcome Measures UNIVERSITY

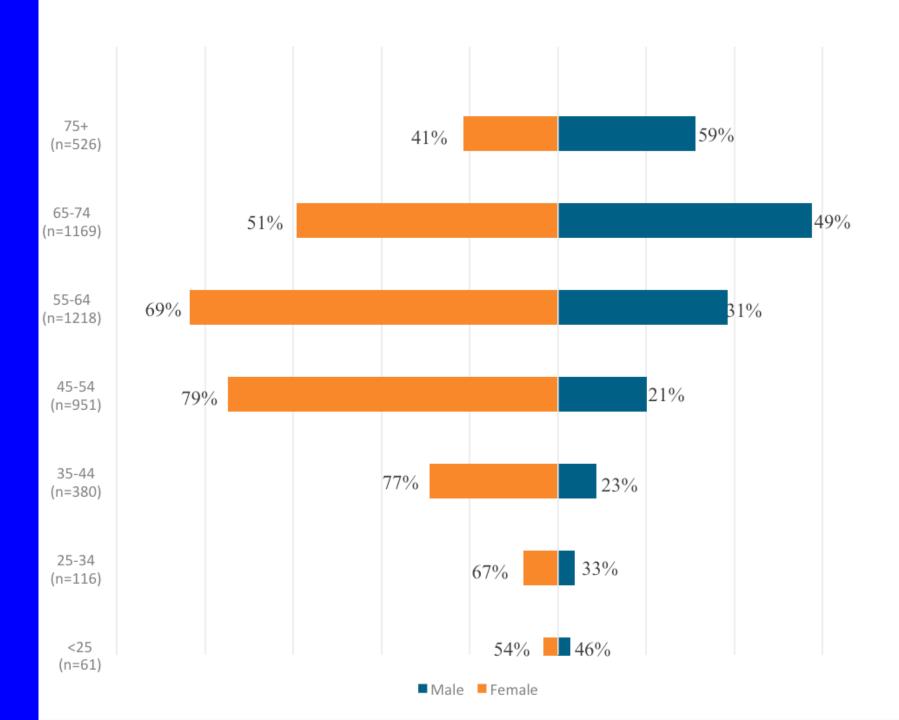
Repeated Measures, Before & After Intervention 3, 6 + 12 month follow up

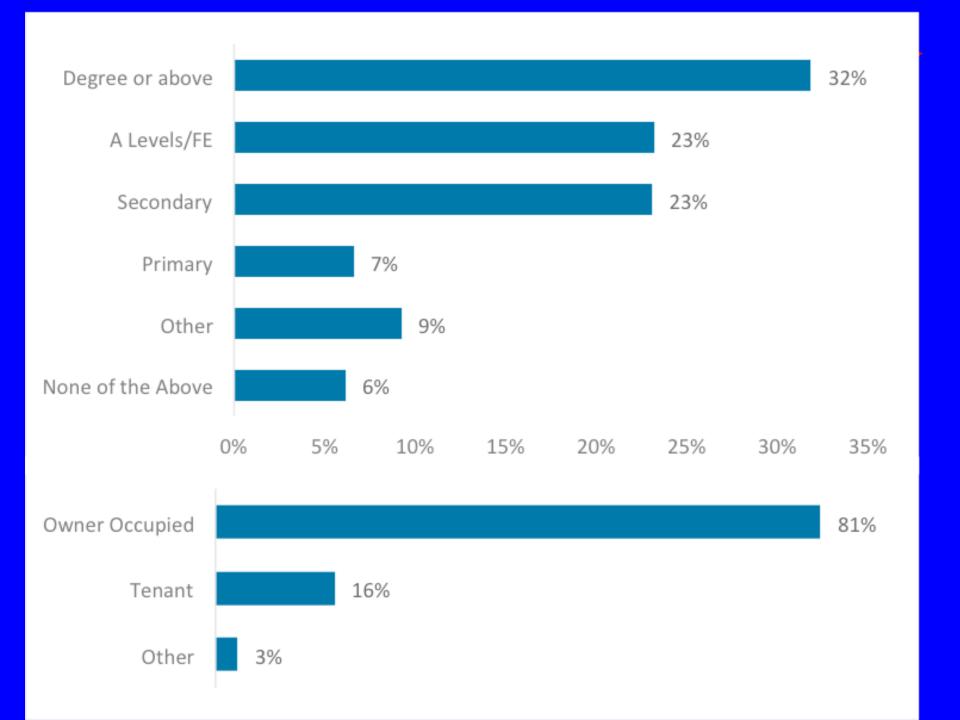
1. Outcome measures	
Levels of Physical Activity	Scottish Physical Activity questionnaire (SPAQ)
Fatigue	FACIT -F
Health Status Quality of Life	EQ5D
Self Efficacy	General Self efficacy questionnaire

2. Demographic and Costs Monitoring and Evaluation

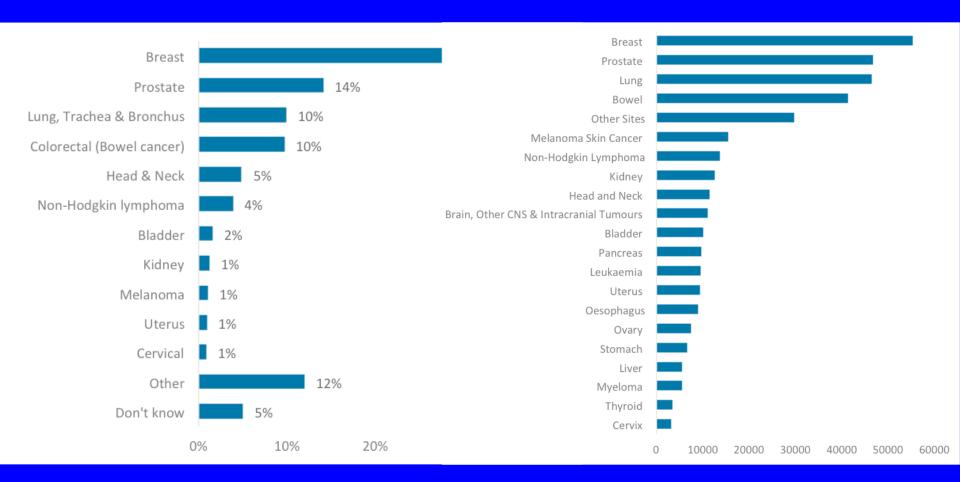
Gender, age, ethnicity, disability, socio-economic status, cancer status, stage of treatment, previous levels of physical activity levels, costs, resources

3. Objective Measure - accelerometer









MoveMore Participants

Cancer Incidence

Behaviour change intervention Rapier

- Practitioners' BECCI score*: 22.8 out of 44 (page 80)
- "Going through the motions" (in some services)
- Closed questions
- No summary statements
- If a motivated client assumption was behaviour change intervention not required
- Goal setting good (confidence score 1-10)
- No true personalised offer
- Face to face was better than telephone based approach
- Group based BCI worth considering
- Move More practitioner MI training



MOVE MORE Edinburgh Napier NORTHERN IRELAND















CONSULTATION WITH MOVE MORE COORDINATOR

DIVERSE MENU OF PHYSICAL ACTIVITY
OPPORTUNITIES TAILORED TO YOUR NEEDS

MINIMUM OF 12 MONTHS FOLLOW UP SUPPORT



WALKING, SPORTS. ACTIVE AT HOME

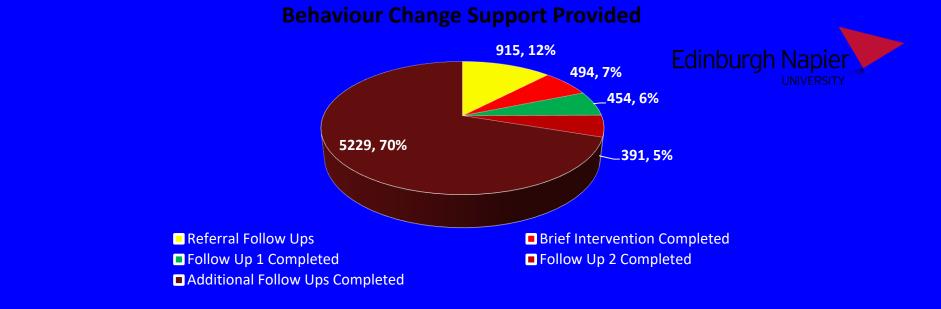


GROUP-BASED INDIVIDUAL

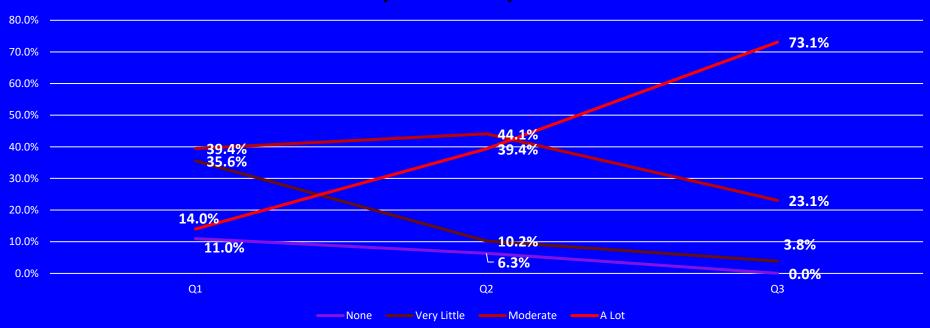


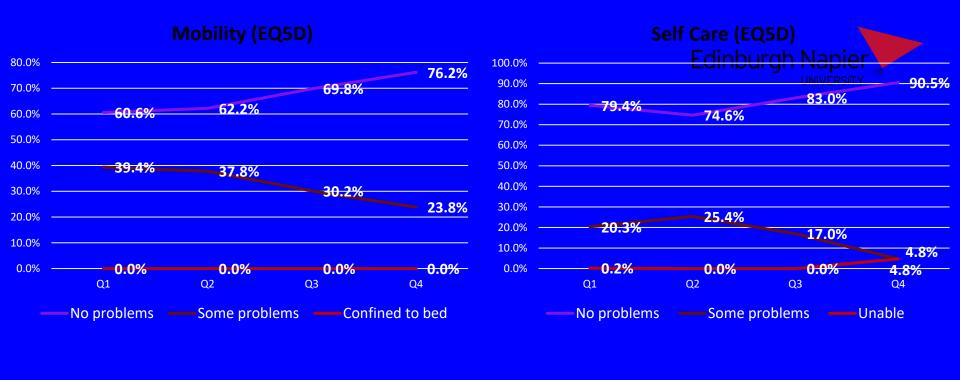
CANCER SPECIFIC NON-CANCER SPECIFIC

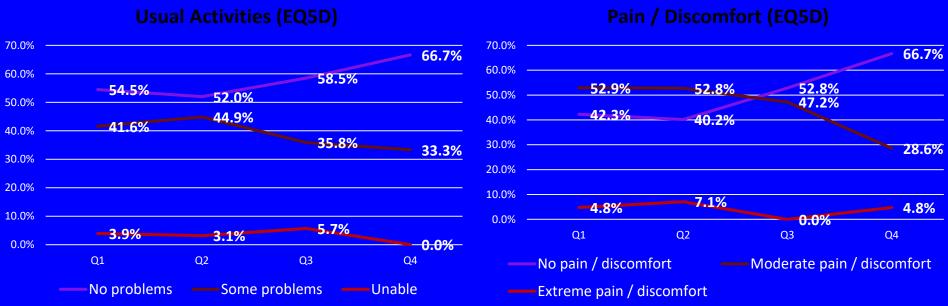




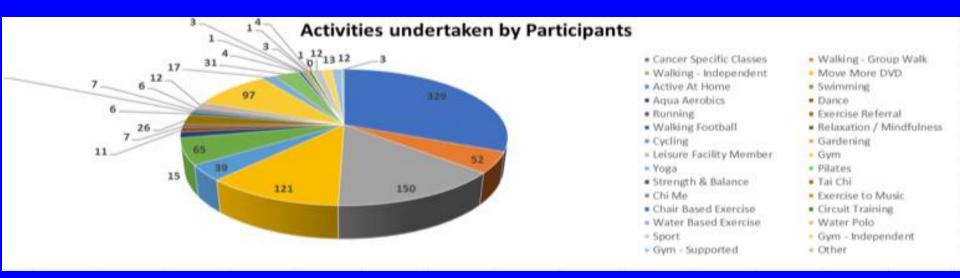
Physical Activity Levels











3.3 Cost per service user and cost ner completer

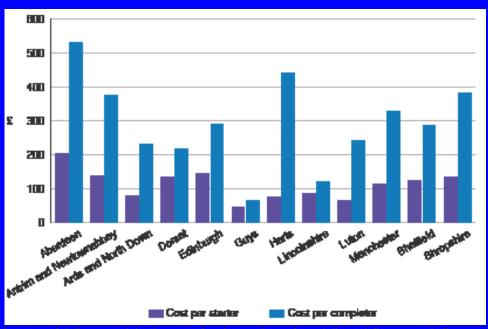
If costs are averaged across all starters*, the mean cost per service user is £111 (£101 excluding set-up costs). However, taking the (recommended) cost per completer approach results in a mean cost per completer of £291 (£265 excluding set-up costs). There are alternative ways to average costs and further information can be found in the *Evaluation of the Macmillan Physical Activity Behaviour Change Care Pathway*

This cost estimate is similar to that found in previous studies. The Let's Get Moving feasibility study found a mean cost per participant of between £124 and £630⁸¹.

Also, a recent systematic review of exertise inburgh Napier referral schemes (which underpins the NICE Public Health guideline: Physical activity: exercise referral schemes (PH54) found an average cost per service user of £225.82

Mean costs per completer vary substantially across services. These are also shown in Figure 7 (together with costs averaged across all starters).

Figure 7: Cost per service user (starters and three-month completers) based on three-month running costs



In terms of delivery models, the costs for signposting only and direct delivery are similar. In terms of setting, the healthcare setting has the lowest mean cost per service user. This is partly due to the fact that this setting achieves higher follow-up rates – 59% compared to 41% for the community setting.





Thankyou for listening!
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