



2007-2018

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Forestry Commission Scotland

Economic Research

- Health Walks
- Horticultural therapy
- Branching Out
- Green Gym
- Natural Play
- Forest School
- WAP for people with Dementia



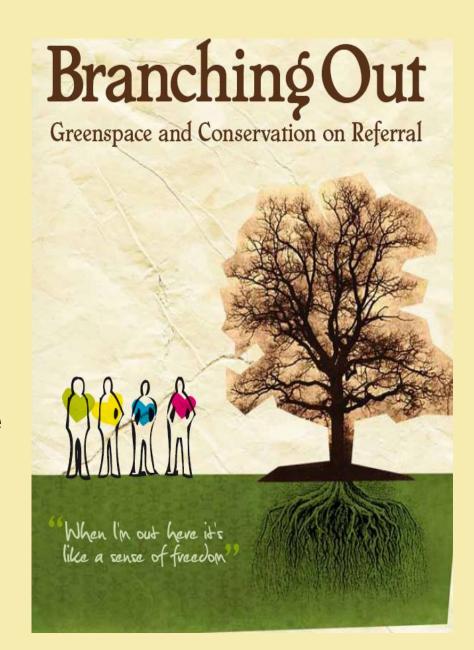
Greenspace and conservation on referral for adults using mental health services

Programme runs in 10 area health boards across Scotland

40 plus groups delivered per annum

Established training programme for environment and health professionals

Economic study 2016





Branching Out Summary of Economic Study

Branching Out is a programme run by Forestry Commission Scotland (FCS) that aims to improve the Health-Related Quality of Life of adults experiencing severe and enduring mental health problems. First established in 2007, it is based on a 12-week programme of woodland activities, which are used as a vehicle to help participants learn strategies that can maintain positive mental health. It runs as an adjunct treatment for those in secondary and tertiary care.

The programme has been evaluated through two survey-based studies, one for 2011-2012 and one for 2014-2015. The studies used 12-point short form surveys, completed by participants both before and immediately after the scheme, with a follow-up survey three months after completion of the programme.

The 2011-2012 survey showed benefits in Quality-Adjusted Life Years (QALYs), a standard measure used to assess the cost-effectiveness of treatments across the health care sector, but these were not statistically significant. It also showed that the programme was cost-effective when compared with the National Institute for Health and Care Excellence (NICE) guidelines. The aim of the 2014-2015 survey was to increase the amount of data available, to see whether a larger sample would show statistically significant effects for QALYs, and to extend the analysis of the programme's cost-effectiveness.

The results of both surveys show small but significant improvements in participants' mental health, social participation and general vitality. Perhaps because of a relatively low response rate to the full survey, the benefits for QALYs in the 2014-20151 survey are also not statistically significant.

Improvements in mental health and vitality as a result of the scheme are particularly marked for participants with more severe mental health problems before they entered the programme.

The programme has a high retention rate. Participants were more likely to maintain contact with Branching Out than with comparable schemes, which indicates their satisfaction with it.

The cost of one QALY delivered through Branching Out is just over £17,000. This compares favourably with the NICE benchmark of £30,000 for an intervention to deliver one QALY. Although it was not possible to collect reliable data. on how long its benefits last, this indicates that Branching Out is a cost-effective way to improve mental health.

Details of the programme are available at www.forestry.gov.uk/branchingout

¹QC Consulting 2016, Snanching Out Economic Sciencion: Final Report to Forestry Commission Scotland. Available at: www.forestry.gov.u/branchingout.







Branching Out Positive Mental Health Through Nature

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Introduction

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Conclusions

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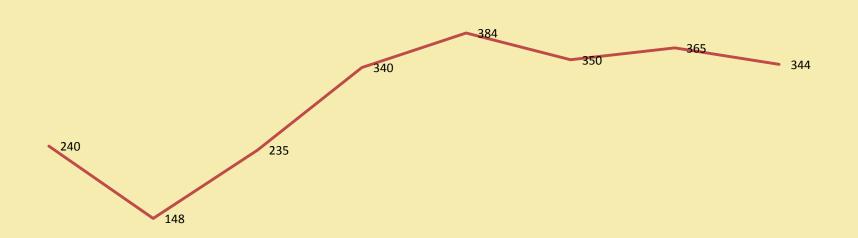




Statistics

No's of groups and referrals since 2007



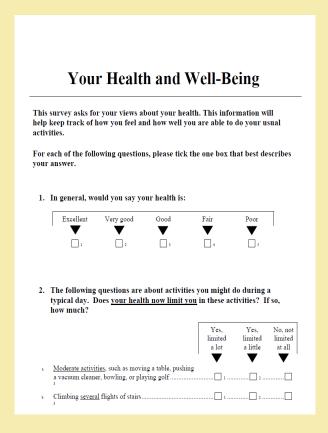




Our Research

Quantitative evidence using Cost Utility Analysis

- Recent health economic study carried out over 2 years
- Data collected in 2014 and 2015
- Short form 12 questionnaires (selfadministered patient questionnaire to measure treatment effectiveness www.optum.com)
- Baseline, Post & 3 month follow-up



Our Results

Quantitative evidence using Cost Utility Analysis: Results

- Scores converted to SD-6 scores (health state classification utility scores)
- Lower score indicates a worse health state and a higher score indicates improved health state
- Pooled data shows Improvements in scores for physical health, mental health, vitality, social functioning and life role measured.
- Used to calculate cost of Quality-Adjusted Life Years (QALY)
- Pooled data shows a QALY improvement in 51% of participants, and no change in 10% of participants (n=175)
- 2011/12 data shows QALY improvement in 57%, and no change in 8% (n=73)

Climbing several flights of stairs..



Our Results

- One QALY costs £17,300 compared to NICE guidelines of £30,000.
- Completion rate 2007 2015 is 70% (2050 participants)
- Adults with moderate to severe & enduring conditions show the most improvement.

Focus groups (2007) reported 5 areas of improvement:

- 1. Mental wellbeing
- 2. Physical health
- 3. Daily structure and routine
- 4. Transferable skills acquisition
- 5. Social skills and networking



Branching Out Economic Study

- The cost of one QALY delivered through Branching Out is £17,300
- NICE benchmark of £30,000 for intervention to deliver QALY gain
- Branching Out is a cost-effective way to improve mental health



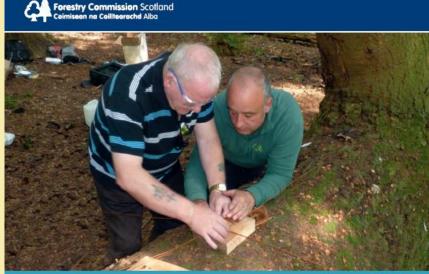
Other Green Prescription programmes



Benefits for people with dementia and their carers:

- Being treated as equals
- Improvements in self-esteem
- Increased confidence
- Increased socialisation
- Mental restoration
- Connection to the past life experiences
- A sense of togetherness
- New and innovative service that complements traditional therapeutic interventions

Woodland Activity Programme



Research Note

Forests as places of mental well-being for people with dementia

Mandy Cook June 2015

This Research Note is based on a PhD research study 'Forests as places of mental well-being: the meaning and use of urban forests by people with early-stage dementia'. The study examines and develops ways for people with dementia (especially those in the early stages) to engage with nature, and with other people, in the context of trees, woodlands and forests. Initial results from the study found that a pilot programme of activities, led by Forestry Commission Scotland rangers in an urban woodland setting, provided an overwhelmingly positive experience for people with early-stage dementia, by offering meaningful experiences that contributed to well-being and feelings of self-worth. The woodland errironment also provided a 'library' of resources and stimulation. The programme helped people with early-stage dementia remain active and connected within the community, enabling them to maintain their independence for as long as possible, and provided support for carers. Such programmes can be seen as a new and innovative way of engaging with people with early-stage dementia, which could complement traditional therapeutic interventions. As the Note stresses, an 'end of the road' approach to people with dementia is no longer acceptable. We need to explore more ways of providing care with an emphasis on empowerment and maintaining the best possible quality of life. It is hoped that this Note will provide a valuable resource, not only for people who manage woodlands and other green spaces, but also for health-care professionals.

FCRN019

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Questions?



Thank you for your interest!

Questions directed to:

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Website:

www.forestry.gov.uk/branchingout

Photography:

Forestry Commission Picture Library

& Andrew MacDonald

www.exhibitscotland.com

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