Mobility scooters, the long term health impacts

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WHO uses mobility scooters?

Many older people have difficulty walking and the percentage of people in this group rises with age1. Using a mobility scooter enables its user to travel distances previously travelled by foot without any physical effort. For an older adult with difficulty maintaining their previous levels of walking, using a mobility scooter may allow them to participate in activities they previously could not access or partake in without discomfort.



WHY should we care !

to make a fully informed choice.

1 Mindell, J. and R. Craig (2005). Healthy Survey for England. Department of Health. London

For older adults regular physical activity lowers the risk of disability and the risk of developing chronic conditions associated with age2. By replacing walking with a mobility scooter users risk de-conditioning the physical functionality that allows them to walk, thus reducing their mobile capability at a greater rate than if they had continued to travel without assistance. The long term impact of mobility scooter use has not been researched at all Empirical evidence showing the benefits and disadvantages of scooter usage in terms of physical functioning is needed to allow those, recommending or choosing to use a scooter



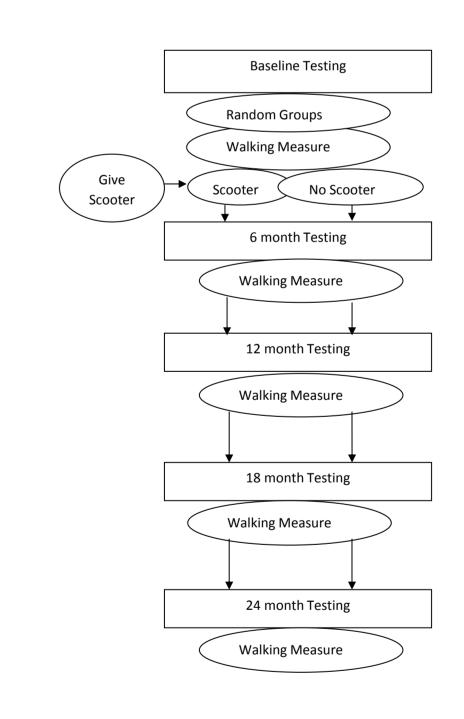
HOW will we find out?

The study will follow the health and mobility of a group of older people for two years.

This study will examine differences over time between scooter users and non-scooter users on their walking levels and on a series of physical and cognitive tests.

Participants will be randomly assigned to either be given mobility scooters or not. Scooter users will be given pedometers to record the distance they travel by foot and their scooters will be fitted with odometers to record how far they travel using the scooter. Non-scooter users will be given pedometers to record how far they travel by foot.

All participants will be monitored over time for physical and cognitive health markers including blood pressure, weight, grip strength, gait speed, anaerobic threshold, lung function, activities of daily living, processing speed, cued/free recall, and working memory. All participants will be measured across these before they are assigned to groups and every six months afterwards across a two year period.



who are scooter

users show the

greatest

declines in

upper body

strength3.

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WHAT will the impact be

The results from this study will form the basis of two health and mobility scooter guides; one aimed at health care professionals and the other at current and potential mobility scooter users.

The guides will give advice on the potential health outcomes of scooter usage. This will give people the tools to make an informed decision on whether to use a scooter.

worth 5 billion by 2015₄. 2 Guralnik, , J., A.Z.LaCroix, et al. (1993). "Maintaining Mobility in Late Life. Demographic Characteristics and Chronic Conditions" American Journal of Epidemiology 137(8): 845-857. 3 Thoreau, R. (2011). Personal Mobility Scooters: Health differences between mobility scooter users and the unaided pedestrian. Accessibility Research Group Working Paper. UCL. 4 Miles-Tapping, C. and L. MacDonald (1995). "Lifestyle Implications of power mobility" Physical & Occupational Therapy in Geriatrics. 12(4): 31-49

The scooter

industry is

worth 3.5billion

pounds today

and will be



