





# **Exercise Referral Schemes enhanced by Self-Management Strategies to battle sedentary behaviour**



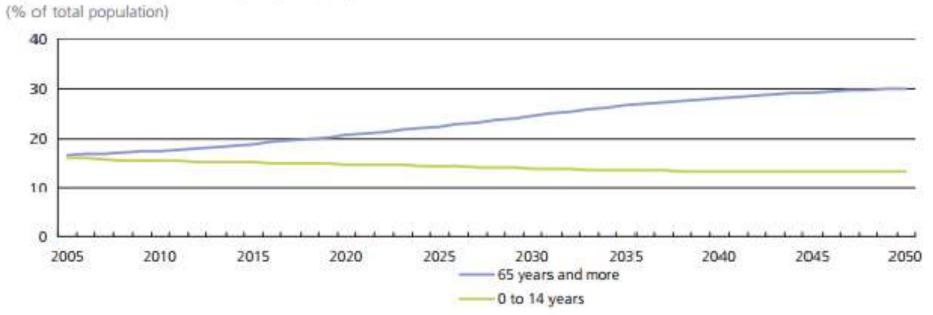
Dr Mark Tully, Senior Lecturer in Physical Activity and Public Health UKCRC Centre of Excellence for Public Health, Queen's University Belfast 17 April 2018

# Background



- Older adults (65+ years) is the fastest growing segment
- The increase of the elderly population leads to increased prevalence of frailty, risk for poor health outcomes, and related health and social care costs

#### Figure SP.11: Population projections, EU-27





## **Background**

- Physical activity (PA) has well documented health benefits
- Approximately two thirds of the European population are inactive

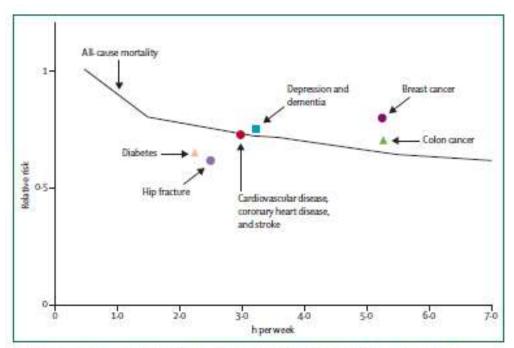
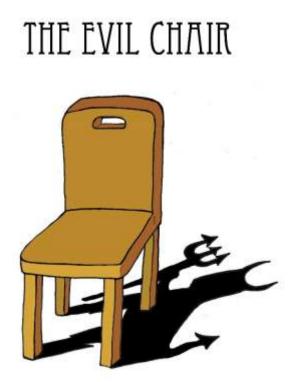


Figure 2: Associations of moderate-to-vigorous physical activity with key health events, including all-cause mortality

Adapted with permission from Powell and colleagues.<sup>10</sup>



#### **Need for innovation...**





City of Melville launches 'Fit for Life' community physical activity program

Australasian Leisure Management (press release) - 5h ago



Physical activity could improve your happiness, study says
Atlanta Journal Constitution - 5 Apr 2018



Physical Activity Conversations With Patients Need to Be Routine, AHA

Says

TCTMD - 6 Apr 2018 <

#### **Need for innovation...**



- Only common physical activity programme across European health services are Exercise Referral Schemes (ERS)
- Low update and adherence, especially in older adults
- Added challenge of increasing sedentary behaviour in older adults





# **Key Aims**

- Develop and test complex intervention to address sedentary behaviour and physical activity
- ▶ Exercise referral schemes enhanced with self-management-strategies
- Test long-term (cost) effectiveness (18 month follow-up)





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CRS alture and also with general recommendations about PA.

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ONE-TO-ONE MEETING





TELEPHONE FOLLOW-UP



REDUCE YOUR TV TIME



INTERRUPT YOUR SITTING TIME



LIMIT YOUR COMPUTER USE



# SITLESS

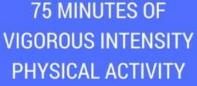
# EXERCISE REFERRAL SCHEMES ENHANCED BY SELF-MANAGEMENT STRATEGIES TO BATTLE SEDENTARY BEHAVIOUR

PROTECT BONE HEALTH AND MUSCLE MASS



REDUCE YOUR

**RISK OF FALLS** 



150 MINUTES OF MODERATE INTENSITY PHYSICAL ACTIVITY

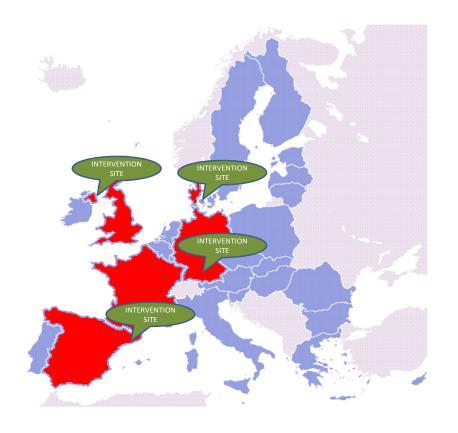


OR A COMBINATION OF BOTH

OR



#### **INTERVENTION SITES**

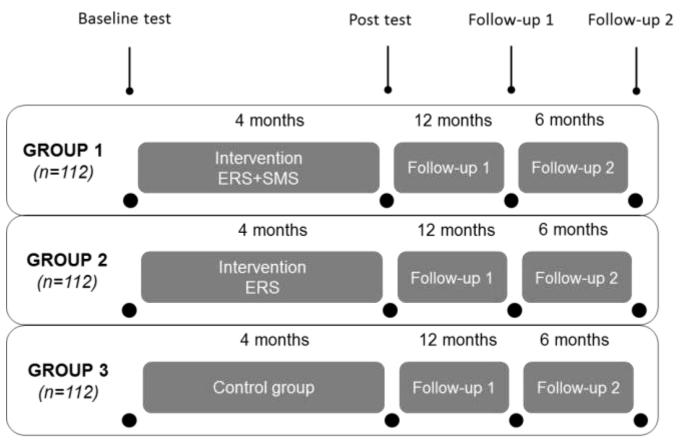


- CATALONIA: FundacióBlanquerna
- DENMARK: University of Southern Denmark
- UNITED KINGDOM:Queen's UniversityBelfast
- GERMANY: UniversitätUlm





# Design



Test sessions



#### **Outcomes**

- Day to day physical activity
- Functional performance
- Mental health and wellbeing

















"SITLESS will provide a <u>breakthrough</u> in the field of physical activity promotion, since it combines several already tested concepts but that have never been proofed together in such a <u>comprehensive</u> and multidimensional way with an important focus on <u>long term effects</u>"



### **Progress**

- Intervention developed with service users
- ▶ 1300 participants recruited
- Intervention complete
- Will finish post intervention assessments this month



#### Lessons

 Need to develop interventions that are suitable for cross-cultural application

 Our participants value social interactions in programme over the health benefits or the novelty



# Benefits of working in partnership

- Collaboration with experts
- Opportunities for impact (e.g. Danish National Physical Activity Guidelines for Older Adults)
- Travel





#### **Future Direction**

- Upstream programmes that engage the least active older adults
  - Socially isolated
  - Low socio-economic position
  - Preventing functional decline
- Implementation research

# Thanks for listening



#### **Dr Mark Tully**

UKCRC Centre of Excellence for Public Health (NI) Centre for Public Health Queen's University Belfast



m.tully@qub.ac.uk



www.sitless.eu



@marktully qub



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