



- Co-lead injury epidemiology and prevention group
 - Injury across the lifecourse
 - Database studies (epidemiology)
 - Systematic reviews (e.g. Cochrane)
 - Observational studies
 - Trials
 - Implementation research
- ARC theme lead Building Resilience in Later Life
- Consultant in Public Health in Leicestershire
 - Integration team falls prevention
 - Health Determinants Research Collaboration
 - Health improvement



Falls prevention research

- Preventing falls in the community
 - Falls Management Exercise Programme (FaME)
 - OTAGO exercise programme
- Preventing falls in Care Homes
 - Action Falls



Falls in older adults (community)

- 30-40% community dwelling >65 yrs fall each year
 - 30-50% minor injury
 - 5-6% major injury (excluding fracture)
 - 5% fractures; 1% hip fractures
- 50% hospital admissions for injury due to fall
- History of falls a major predictor future fall



- >10% ambulance call outs due to falls (up to 40% not taken into hospital)
- Declining activity, increasing frailty, receipt of care
- Concern about falling reduced physical activity increase risk

NO STATEMENTS ON AGE ONLY ON 'RISK'

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GUIDELINE

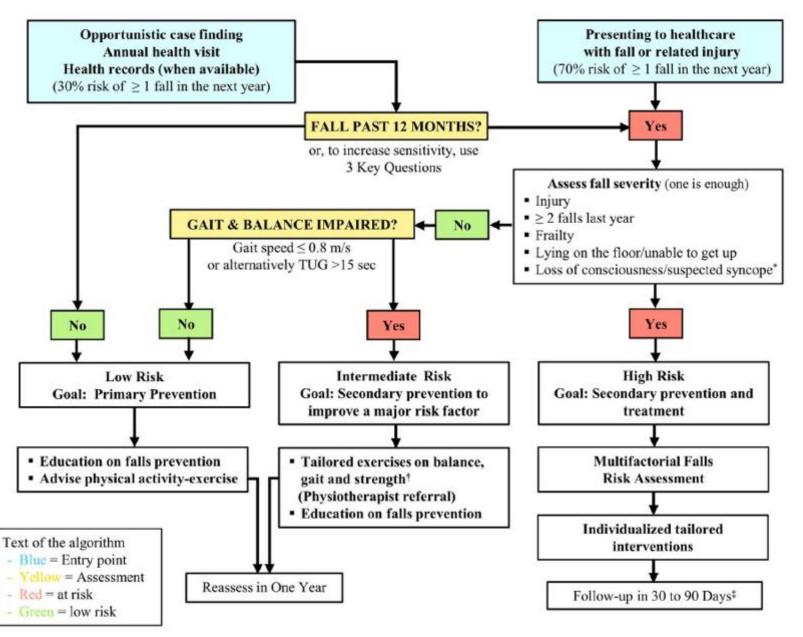
World guidelines for falls prevention and management for older adults: a global initiative

Manuel Montero-Odasso ^{1,2,3,†}, Nathalie van der Velde^{4,5,†}, Finbarr C. Martin⁶, Mirko Petrovic⁷, Maw Pin Tan^{8,9}, Jesper Ryg^{10,11}, Sara Aguilar-Navarro¹², Neil B. Alexander¹³, Clemens Becker¹⁴, Hubert Blain¹⁵, Robbie Bourke¹⁶, Ian D. Cameron¹⁷, Richard Camiciou¹⁸, Lidy Clemson¹⁹, Jacqueline Close^{20,21}, Kim Delbaere²², Leilei Duan²³, Gustavo Duque²⁴, Suzanne M. Dyer²⁵, Ellen Freiberger²⁶, David A. Ganz²⁷, Fernando Gómez²⁸, Jeffrey M. Hausdorfe^{29,30,31}, David B. Hogan³², Susan M.W. Hunter³³, Jose R. Jauregui³⁴, Nellie Kamkar¹, Rose-Anne Kenny¹⁶, Sarah E. Lam³⁵, Nancy K. Latham³⁶ Lewis A. Lipsitz²⁷, Teresa Liu-Ambrose³⁸, Pip Logan³⁹, Stephen R. Lord^{40,41}, Louise Mallet⁴², David Marsh⁴³, Koen Milisen^{44,45}, Rogelio Moctezuma-Gallegos^{46,47}, Meg E. Morris⁴⁸, Alice Nieuwboer⁴⁹, Monica R. Perracini⁵⁰, Frederico Pieruccini-Faria^{1,2}, Alison Pighills⁵¹, Catherine Said^{52,53,54}, Ervin Sejdic⁵⁵, Catherine Sherrington⁵⁶, Dawn A. Skelton⁵⁷, Sabestina Dsouza⁵⁸, Mark Speechley^{3,59}, Susan Stark⁶⁰, Chris Todd^{61,62}, Bruce R. Troen⁶³, Tischa van der Cammen^{64,65}, Joe Verghese^{66,67}, Ellen Vlaeyen^{68,69}, Jennifer A. Watt^{70,71}, Tahir Masud⁷², the Task Force on Global Guidelines for Falls in Older Adults[‡]

HIGH RISK

- Past fall with injury
- Multiple falls (≥2 falls) in last yr
- Inability to get up after the fall without help
- Frail

World guidelines for falls prevention and management for older adults





The Falls Management Exercise (FaME) programme

- Aimed at adults >65 at risk of falling
- 24-week exercise programme
- Delivered by Postural Stability Instructors
- Group based, in the community
- Challenges balance, improves strength
- Increases in difficulty and resistance
- Includes
 - Home exercises
 - Floor work
 - Progressive tailored exercise
 - Tai Chi moves













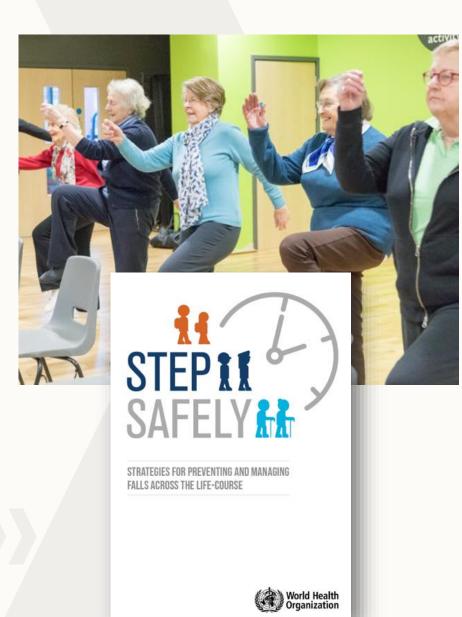
- reduces falls rate by between 26-54²%
 - (depending on population and duration)
- Supports self management and transition onto other activity opportunities
- Increases habitual physical activity
 - (> 105-167 minutes per week by end of programme)
- Improves confidence, reduces concern about falls
- Improves physical function and quality of life
- Maintains bone density
- Changes peoples' lives
- Return on Investment reports range from £2.89-£13.00 - £50.59 for every £1 invested





Policy context and support for FaME

- 2009 Department of Health Prevention Package recommends FaME
- 2012 RCP Audit of falls services in NHS recommend FaME
- 2015 CDC in US Cite FaME in Falls Compendium
- 2017/8 Public Health England recommended FaME as costeffective and presented Return on Investment data
- 2020 FaME Implementation Manual for Commissioners of Services endorsed by NICE
- 2022 World Falls Guidelines exercise recommendations include FaME and links to Implementation Manual and Rol data





Falls in care homes

- Three times more common
- 400,000 people live in care homes in the UK
- 40% of admissions from care home
- Action Falls (previously Guide to Action) Logan et al*
 - Co-designed
 - Multi-domain
 - 1 hour training (all staff)
 - Falls incident chart (patterns)
 - Drug falls risk chart
 - Checklist (screening and assessment with actions)
 - Use on all residents
 - repeated 3-6m



Logan et al., 2021 https://www.bmj.com/content/375/bmj-2021-066991



Action Falls

- Study of 84 care homes (39 intervention)
- Fall rate 3-6 month post training
 - 6/1000 Action Falls group
 - 10.4/1000 control group
 - 43% reduction in falls rate
 - Reduction in fractures at 6m-1year (small numbers)
 - No change in physical activity

- Cost effectiveness
 - Cost/QALY £4,544
 - Cost per fall averted £191
 - Cost per participant £108
 - 92% likely to be cost effective at £20,000/QALY

By March 2023, 300 different care homes were using Action Falls

In Nov 2023 NHS England endorsed it as the

Falls Prevention Tool to use





HCH health and wellbeing focus areas





Structured medication review

People who live in a care home are likely to be taking multiple medicines (polypharmacy) and risks can outweigh benefits



Learning disability and autism

third largest setting that people with learning disabilities reside



Nutrition and hydration

higher prevalence of over-nourishment and undernourishment – which can lead to greater risk of falls, wounds, infections and catheter issues



Falls, Physical Activity, Strength & balance exercise

Greater prevalence of frailty and chance of falls. Recommendation to implement Action Falls (falls prevention and management programme)



Mental health

Complex conditions and ageing can negatively impact mental health



Dementia

>70% of people living in care homes have dementia or severe memory problems



Deterioration

Care home staff can recognise when a person may be becoming unwell before the person exhibits obvious clinical signs of a deterioration –prevents escalation of care

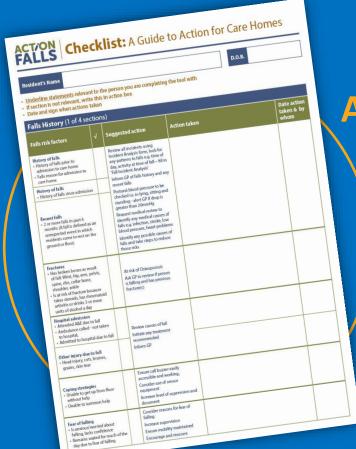


Palliative and end of life care

Caring for people who are at the end of their lives is a large part of what care homes provide

ACT/ON FALLS

Key Components of the Action Falls Programme



Action Falls Checklist (resource)

1 hour care home \training programme





Falls risk factors	V	Suggested action	Action taken	Date action taken & by whom
FALLS HISTORY				
History of falls		Review all incidents using Incident		
History of falls prior to admission to		Analysis form, look for any patterns to falls		
care home		e.g. time of day, activity at time of fall – fill		
Falls reason for admission to care		in 'Fall Incident Analysis'		
home		Inform GP of falls history and any recent		
History of falls		falls		
History of falls since admission		Postural blood pressure to be checked i.e.		
Recent falls		in lying, sitting and standing - alert GP if		
2 or more falls in past 6 months (A		drop is greater than 20mmHg,		
fall is defined as inadvertently		Request medical review to identify any		
coming to rest on the ground or at a		medical causes of falls e.g. infection,		
lower level, including slipping from		stroke, low blood pressure, heart problems		
side of bed or misjudging where		Identify any possible causes of falls and		
chair seat is)		take steps to reduce those risks		
Fractures		At risk of Osteoporosis		
Has broken bones as result of fall:		Ask GP to review if person is falling and		
Wrist, hip, arm, pelvis, spine, ribs,		has previous fracture(s)		
collar bone, shoulder, ankle				
Hospital admission				
Attended A&E due to fall, Ambulance called - not taken to		Review causes of fall, initiate any		
		treatment recommended, inform GP		
hospital,		l leatine it recommended, inform GF		
Admitted to hospital due to fall Other injury due to fall				
Head injury, cuts, bruises, grazes,				
skin tear				
Coping strategies		Ensure call buzzer easily accessible and		
Unable to get up from floor without		working,		
help,		Consider use of sensor equipment		
Unable to summon help		Increase level of supervision and		
- India to daminon noip		Idocument		
Fear of falling		Consider reasons for fear of falling,		
Is anxious / worried about falling,		increase supervision, ensure mobility		
lacks confidence,		maintained, encourage and reassure		
lacks confidence,		I lamanda, onoodrago and rodoodro		



EHCH health and wellbeing focus areas





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People who live in a care home are likely to be taking multiple medicines (polypharmacy) and risks can outweigh benefits



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Falls pathway

- Primary prevention
 - Environmental, personal actions
 - Physical activity
 - Medicines reviews
- Secondary prevention
 - Tailored exercise interventions
 - Falls service
 - Fracture liaison service
 - falls service communication
- Tertiary prevention
 - Frailty assessment



Thank you

Any questions?

Proactive Care

Michael Azad
Consultant Geriatrician
NUH

Introduction

- Number 10 Delivery Unit Acute Clinical Reference Group member
- BGS Frailty in Urgent Care Settings Specialist Interest Group Chair
- BGS Policy and Communications Committee member
- Previous BGS England Council Chair
- NHSE Hospitals Steering Group member
- NHSE SDEC Workforce Group member

BGS

Be proactive:

Delivering proactive care for older people with frailty



Reablement, Rehabilitation, Recovery: Everyone's business



Bringing hospital care home: Virtual Wards and Hospital at Home for older people





Date published: 19 December, 2023 **Date last updated**: 19 December, 2023

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Search

Integrated care, Older people, Personalised care

Our work

Proactive care: providing care and support for people living at home with moderate or severe frailty

Get involved



About us

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Core components

Enablers

References

Introduction

Commissioning

This guidance is for integrated care boards (ICBs) and provider organisations involved in the design and delivery of proactive care.

Coronavirus

Proactive care is personalised and co-ordinated multi-professional support and interventions for people living with complex needs. Many systems are already delivering proactive care.

The specific aims of proactive care are to improve health outcomes and patient experience by:

- 1. delaying the onset of health deterioration where possible
- 2. maintaining independent living
- 3. reducing avoidable exacerbations of ill health, thereby reducing use of unplanned care.

Core components

- 1. Identifying the target cohort for whom there is the greatest potential impact on health and system outcomes.
- 2. Carrying out holistic assessments, such as a Comprehensive Geriatric Assessment
- 3. Developing a personalised care and support plan
- 4. Delivering Co-ordinated multi-professional interventions to address the person's range of needs.
- 5. Providing a clear plan for continuity of care, including an agreed schedule of follow-ups

Key enablers

- 1. Flexible workforce
- 2. Shared care record
- 3. Clear accountability and shared decision-making

Proactive care – what to measure?

- services should consider using patient reported outcomes or functional measures, such as Activities of Daily Living (ADLs) and patient experience measures
- use of unplanned care
- outcome measures for proactive care are difficult to implement, process measures may provide another approach to demonstrate the value of an intervention
- healthy life expectancy (PHM)
- some system benefits may not be realised for a few years

Recommendations for delivering proactive care

- 1. Proactive care services should be aligned to the approximate geography of a Primary Care Network (PCN)/Primary Care Cluster (PCC) or equivalent, with a dedicated proactive care team in each equivalent area across the UK.
- 2. Policy makers and commissioners should prioritise national funding and contractual arrangements to ensure that proactive care is available to all older people living with frailty in the community.
- 3. Leadership is vital to the delivery of successful proactive care services, and it should be supported and nurtured through training opportunities and protected funding.
- 4. Outcome measures are vital in evaluating the success of proactive care interventions and should always be implemented when new services are launched. National guidance on how to measure the impact of proactive care interventions should be published, and investment is needed in clinical research and IT infrastructure focussed on data collection and evaluation.
- **5.** Proactive care services should be staffed by a core multidisciplinary team, consisting of at least one GP with an interest in frailty, one Advanced Clinical Pratitioner,

- and one Care Co-ordinator. A gold standard team would include professionals from social care, mental health services, therapies, pharmacy and geriatric medicine.
- **6.** Local and national investment in training and development opportunities for the multidisciplinary team working in proactive care is needed, including mandatory frailty training, training in communication, leadership, and coaching, and education on the wider health and care system.
- 7. A culture of flexible and cross organisational working should be embedded in proactive care services, which requires good working relationships across services. A shared proactive care workforce plan across the partner organisations in each PCN/PCC or equivalent should be developed.
- 8. Services across the UK should use BGS's *Be proactive:*Evidence supporting proactive care for older people with frailty³ to make the case for proactive care services in their local area, and use *Be proactive: Delivering proactive care for older people with frailty* as a roadmap for implementing services.

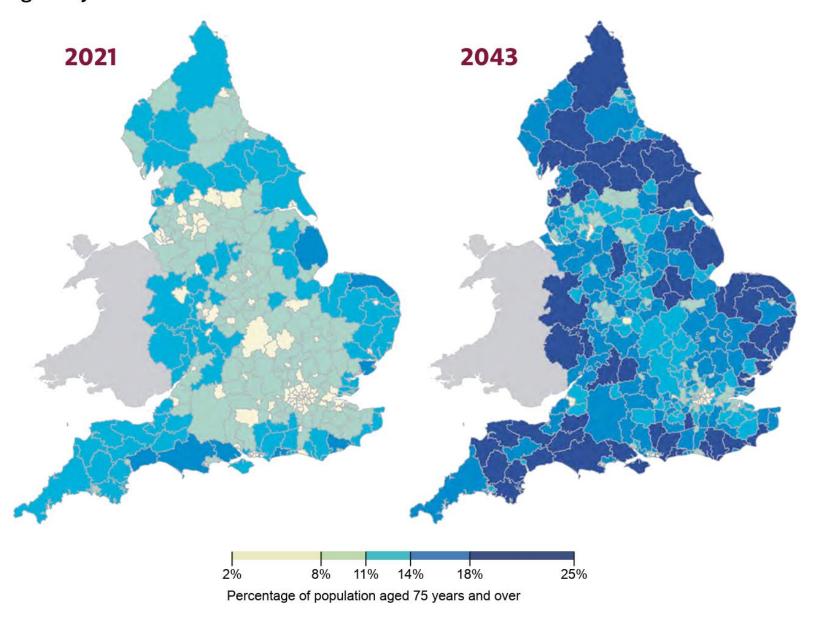
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Figure 1: Map of England showing the projected rise in the percentage of the population aged 75 years and over



Source data: Office for National Statistics (ONS), 2021 mid-year estimates by local authority,³ and 2018-based subnational population projections for 2043⁴



TheKingsFund>

Ideas that change health care

> Making our health and care systems fit for an ageing population

Authors
David Oliver
Catherine Foot
Richard Humphries



What to do about frailty



Rowan H Harwood

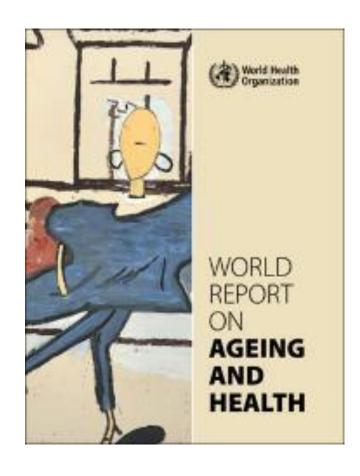
Professor, consultant geriatrician
University of Nottingham and Nottingham University Hospitals.

Why me?

- Geriatrician, clinical academic
- Clinical epidemiologist, applied health researcher
 - 250 papers, 5 books, 10 trials, £17M grants, 2 NIHR programmes
 - Former Editor-in-Chief Age and Ageing
- Chair, WHO TAG for measuring Healthy Ageing and working group on Quality of Dying
- Topics:
 - Falls preventions (cataract surgery, screening, day hospital), community rehabilitation, care homes, MH problems in hospital, cognitive disorders ward, prevention of dependency in dementia, communication in dementia, operationalizing personcentred care.
- I just write a book chapter called 'Is it time to move on from frailty?'



World Report Framework for Healthy Ageing



- Intrinsic capacity
- Locomotor
- Sensory
- Vitality
- Cognition
- Psychological

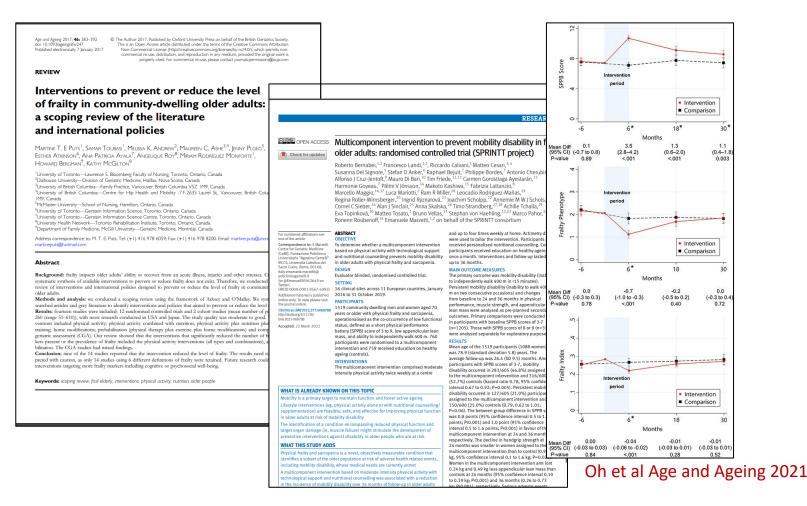
- Functional ability
- Meet basic needs
- Learn, grow, make decisions
- Mobility
- Build and maintain relationships
- Contribute to society

Environments



The ask

What does the research evidence tell us will have most impact **and** what should we stop doing to enable the tertiary prevention of frailty?



- Exercise
- Dietary protein/amino-acids
- Deprescribing
- 'CGA'



Trials in older people

- Populations are heterogeneous
- Interventions are complex
- Control groups are often 'active'
- Co-morbidities are common
- Adherence is uncertain
- Outcomes are multiple
- Stakeholders are multiple
- Context is crucial



'The reductionist tendency to conclude that no RCT evidence implies that an intervention is ineffective, has been a betrayal'.



What outcomes do you want to prevent?

- Mortality
- Cure or reduce frailty
- Disability, immobility
- Falls, injuries
- Hospital admissions
- Dependency, care home admission
- Adverse events or healthcare-associated harm
- Well-being, mental well-being
- (Poor) quality of life /HALE
- Carer strain and poor carer quality of life

- Inclusion
- Occupation
- Personhood
- Enjoyment



King's Fund Integration Report

- Multiple interdependencies and transitions
- Right service and capacity in right place at right time
- End silo thinking

	Health outcomes	Patient experience	Savings	Ease
Self-management	М	Н	L	L
Primary prevention	Н	М	М	М
Secondary prevention	Н	M	М	М
Managing ACS conditions	Н	М	М	М
Integrating mental and physical health care	Н	Н	М	М
Care co-ordination and integration	Н	Н	L	L
End-of-life care	n/a	Н	М	М
Medicines management	Н	Н	Н	М
Managing elective activity	М	М	М	М
Managing emergency activity	Н	Н	Н	L

Low impact / low ease (high difficulty)

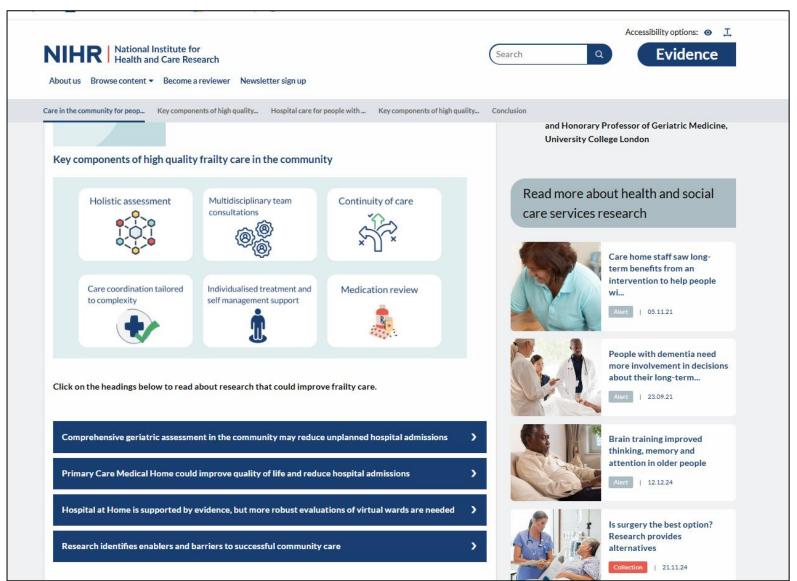
Medium impact / medium ease

High impact / high ease (low difficulty)





NIHR review of frailty care



October 2024 www.evidence.nihr.ac.uk



PrAISED



RESEARCH





Promoting Activity, Independence, and Stability in Early Dementia and mild cognitive impairment (PrAISED): randomised controlled trial

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Correspondence to: R H Harwood Rowan.harwood@nottingham.

(or @RowanHarwood on Twitter: ORCID 0000-0002-4920-6718) compared with usual care. Additional material is published online only. To view please visit the journal online.

Cite this as: BMJ 2023;382:e074787 SETTING http://dx.doi.org/10.1136/

Accepted: 13 July 2023

ABSTRACT

To determine the effectiveness of an exercise and functional activity therapy intervention in adults with early dementia or mild cognitive impairment

Randomised controlled trial.

Participants' homes and communities at five sites in the United Kingdom.

PARTICIPANTS

365 adults with early dementia or mild cognitive impairment who were living at home, and family members or carers.

INTERVENTION

The intervention, Promoting activity, Independence, and Stability in Early Dementia and mild cognitive impairment (PrAISED), was a specially designed, dementia specific, rehabilitation programme focusing on strength, balance, physical activity, and performance of activities of daily living, which was tailored and progressive and addressed risk and the psychological needs of people with dementia. Up to 50 therapy sessions were provided over 12 months. The control group received usual care plus a falls risk assessment. Procedures were adapted during the covid-19 pandemic.

MAIN OUTCOME MEASURES

The primary outcome was score on the carer (informant) reported disability assessment for dementia scale 12 months after randomisation. Secondary outcomes were self-reported activities of daily living, physical activity, quality of life, balance, functional mobility, fear of falling, frailty, cognition, mood, carer strain, service use at 12 months, and falls between months 4 and 15.

365 patient participants were randomised, 183 to intervention and 182 to control. The median age of participants was 80 years (range 65-95), median Montreal cognitive assessment score was 20 out of 30 (range 13-26), and 58% (n=210) were men. Intervention participants received a median of 31 therapy sessions (interquartile range 22-40) and reported completing a mean 121 minutes of PrAISED exercise each week. Primary outcome data were available for 149 intervention and 141 control participants. Scores on the disability assessment for dementia scale did not differ between groups; adjusted mean difference -1.3, 95% confidence interval -5.2 to 2.6; Cohen's d effect size -0.06, 95% confidence interval -0.26 to 0.15; P=0.51). Upper 95% confidence intervals excluded small to moderate effects on any of the range of outcome measures. Between months 4 and 15 the intervention group experienced 79 falls and the control group 200 falls (adjusted incidence rate ratio 0.78, 95% confidence interval 0.5 to 1.3; P=0.3).

- No benefits from 12 months activity-based intervention
- BUT
 - **COVID** pandemic
 - Intensity
 - Socio-economically privileged population
 - Psycho-social vs bio-medical outcomes

WHAT IS ALREADY KNOWN ON THIS TOPIC

Dementia is associated with progressive loss of functional ability, including



Off-the-top-of-my-head top-tips

- Vaccination
- Falls prevention
- Deprescribing
- Community Mental Health, proactive dementia support
- Hospital-at-home
- Bed-based or community rehabilitation
- Specialist chronic disease management pathways (stroke, Parkinson's)
- Specialist community-based end-of-life care
- Specialist care home support (crisis, mental health, EOLC)
- Cataracts, hearing aids, arthroplasty, dentistry



Pain and Frailty

ICS Frailty programme

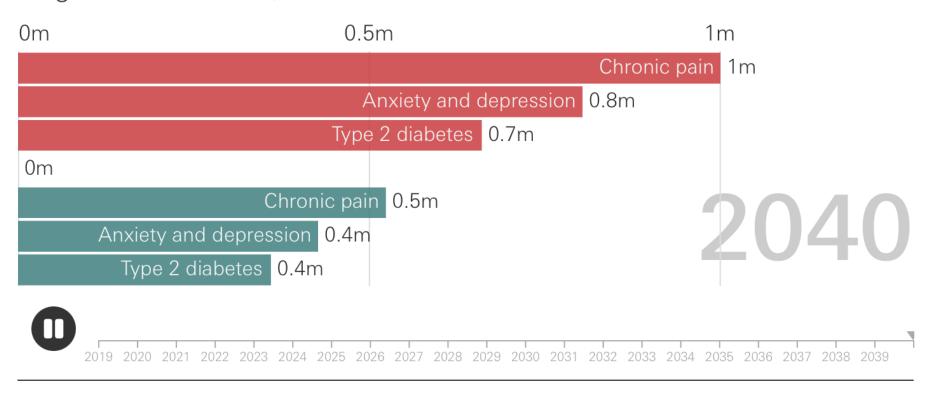
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Honorary Consultant Geriatrician, University Hospitals Derby and Burton
NHS Foundation Trust



Chronic pain projected to increase markedly by 2040

Projected number of people aged 20 years and older living with diagnosed condition, 2019 to 2040



REAL Centre

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Figures are rounded to 1 decimal place. Transition reflects average growth rate between 2019 and 2040.



Pain and Frailty are closely linked

Persistent pain is a risk factor for frailty

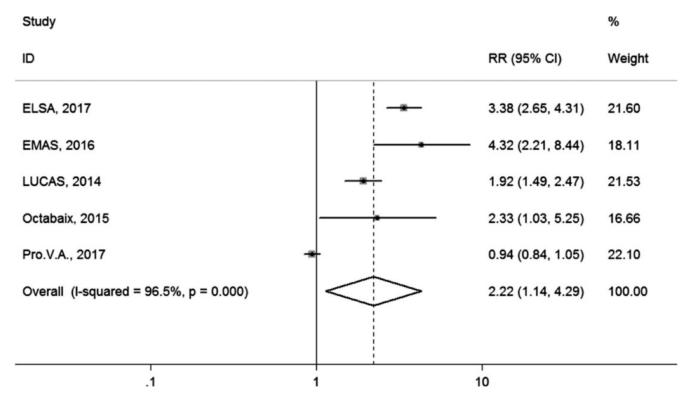


Figure 2. Forest plot of the relative risks (RR) and 95% confidence intervals (CI) from a random-effects meta-analysis for the association between pain at the baseline and incidence of frailty during the follow-up. For each study, the size of the grey square is indicative of the relative weight each study carried in the meta-analysis. The rhombi represent the pooled RR for this association.

MA from prospective longitudinal studies, N=13,120

Persistent pain at baseline, RR 2.22 of developing frailty at follow-up

Saraiva et al, Age Ageing 2018; 47(6):785-793. doi: 10.1093/ageing/afy104.

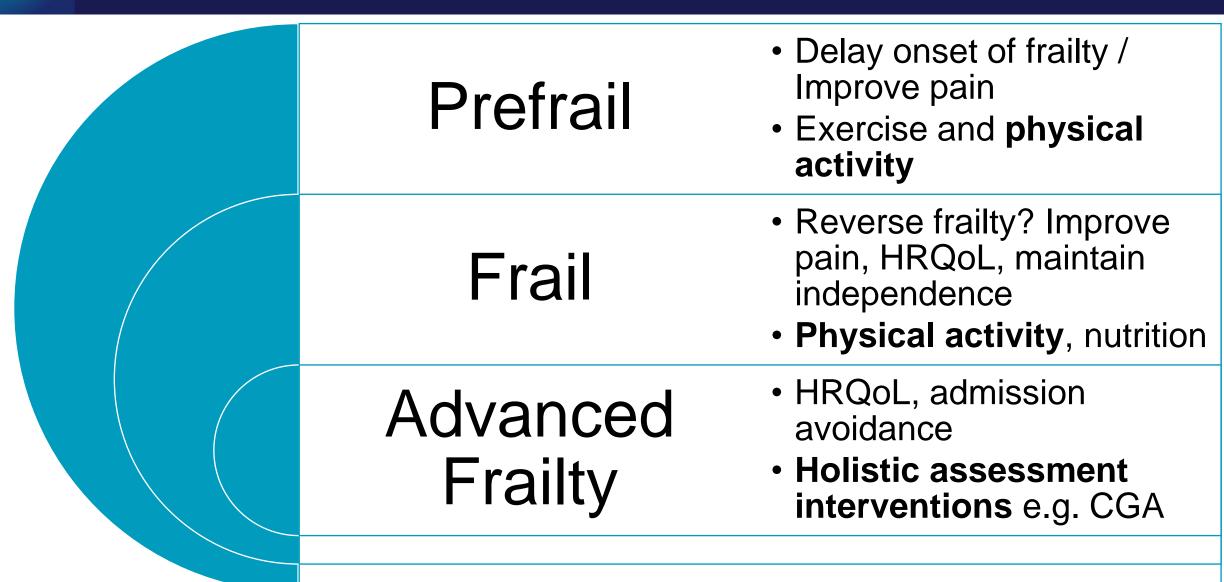


Physical activity is effective for pain and frailty

Frailty	Pain	
Puts et al, Scoping Review (2017) – In community dwelling older adults, physical activity reduced level of frailty .	Geneen et al, Cochrane Review (2017) – Physical activity and exercise is an intervention with few adverse events that may improve pain severity and physical function.	
Travers et al, Systematic Review (2019) – In primary care frailty interventions, a combination of muscle strength training and protein supplementation delay or reverse individual frailty criteria and the easiest to implement in primary care.	Lam et al, Mapping Review (2023) – Using Pain Management Programmes and psychological therapies may improve responses to pain and well-being.	



Outcomes and Interventions





Holistic assessment-based interventions for frailty

Arakelyan et al, Umbrella Review (2023) -

Comprehensive Geriatric Assessment – hospital and community settings

Outcomes:

Improved HRQoL

Hospital admission avoidance



Implementation and Impact

- Focus on prevention of frailty and improvement of pain
- Pain may be a key target for mitigating against frailty, given greater 'visibility'
- Physical activity as an intervention for both frailty and pain research gap



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Thank you

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