

Falls – Implementing best practice

Dr Emma Stanmore

Prof Chris Todd

www.profound.eu.com







Older people at risk of falls

- ▶ In > 75s, falls are the leading cause of death resulting from injury.
- ▶ 500 admitted to Hospital every day, 33 never go home
- ▶ 1 in 3 >65's and 1 in 2 >80's fall p.a.
- Fractures costs £1.8 billion p.a.
- 1 Hip Fracture every 10 mins
- 1 Wrist Fracture every 9 mins
- 1 Spine Fracture every 3 mins



(World Health Organization (2007) <u>WHO Global report on falls prevention in older age.</u> Masud, Morris *Age & Ageing* 2001; 30-S4 3-7 Rubenstein. *Age & Ageing*; 2006; 35-S2; ii37-41

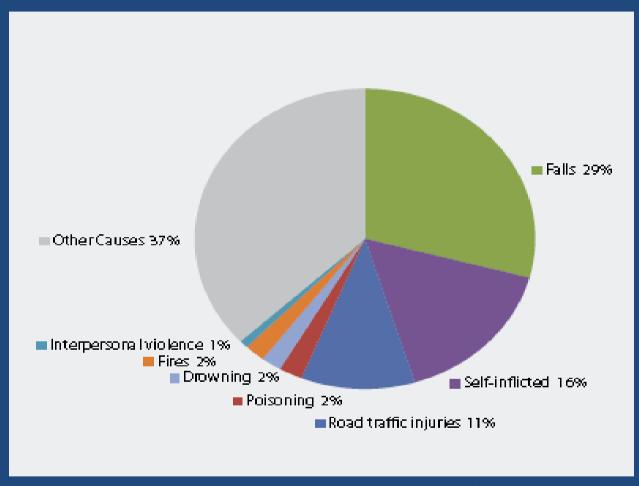






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Falls most serious frequent home accident



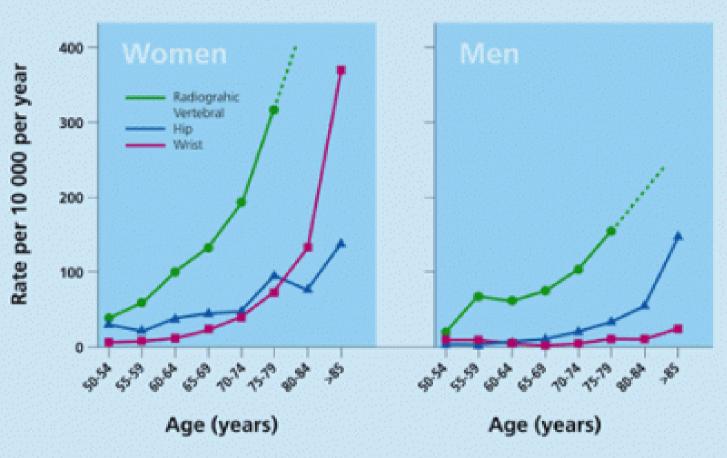
Fatal injuries in the EU amongst older people (65+) by cause and gender







Age- and gender-specific incidence of vertebral, hip and distal forearm fractures

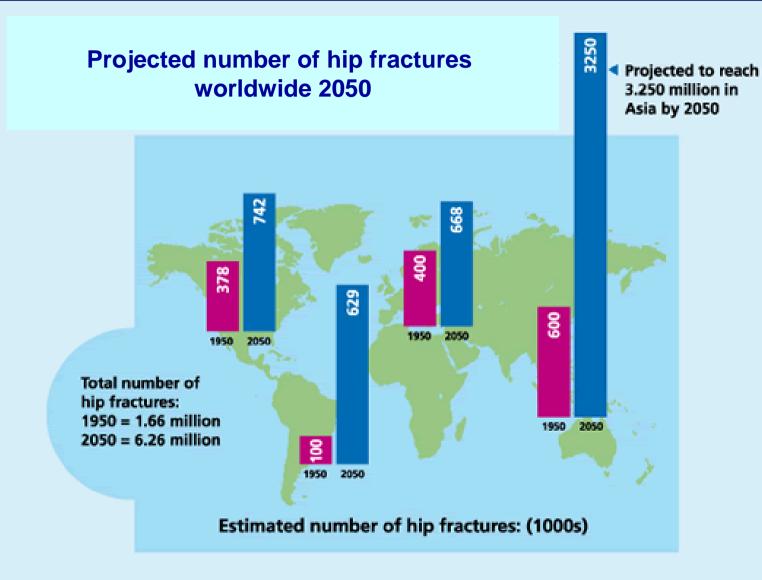


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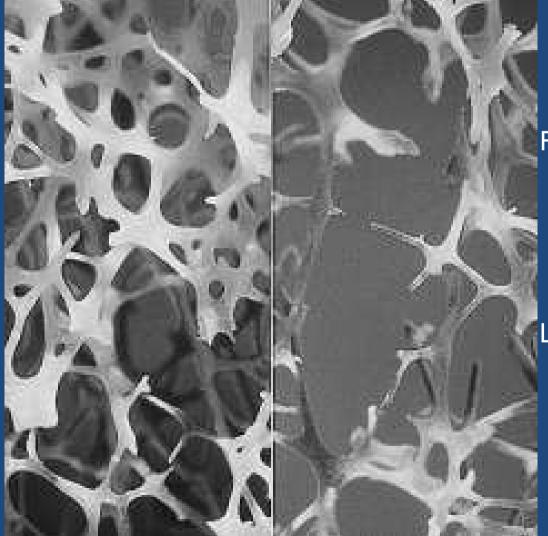


Adapted from C. Cooper et al, Osteoporos Int 1992; 2:285-9





Osteoporosis, falls and fractures



EVOS/EPOS Group

Falls explain betweencenter differences in the incidence of limb fracture across Europe. *JBMR* 2002

Low BMD is less

predictive than risk

of falling for future

limb fractures in

women across

Europe. *Bone* 2005







Robinovitch S et al Lancet 2013

- Video captured 227 falls: 130 individuals (mean age 78 years, SD 10)
- Most frequent cause of falls:
 - incorrect weight shifting, 41% (93 of 227)
 - trip or stumble (48, 21%),
 - hit or bump (25, 11%),
 - loss of support (25, 11%),
 - collapse (24, 11%).
 - NB Slipping only 3% (6) falls.
- 3 activities associated with highest proportion of falls (n=227 falls)
- forward walking (54 falls, 24%),
- standing quietly (29 falls, 13%),
- sitting down (28 falls, 12%).





Falls can be prevented!

- Multiple-component group exercise
- Multiple-component homebased exercise
- Tai Chi
- Multifactorial intervention individual risk assessment
- Vitamin D NB low Vit D
- Home safety interventions by OT

Interventions for preventing falls in older people living in the community (Review)

Gillespie LD, Robertson MC, Gillespie WJ, Lamb SE, Gates S, Cumming RG, Rowe BH



This is a reprint of a Cockman review, prepared and training and by The Cockman Collaboration and guiddless in The Cockman Laboration and

Gillespie et al 2012, 159 trials, 79193 pts





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Modifiable risk factors for falls

<u>Intrinsic</u> <u>Extrinsic</u>

History of falls

Environmental hazards

Medications

Medical conditions Walking aids/assistive devices

Age Footwear and clothing

Impaired mobility

Postural instability

Depression

Visual impairments

Foot problems

Incontinence

Nutritional deficiences

Exposure

Physical activity

Behaviour







- Prevention programmes are efficacious
- Implementation gap
 - Falls prevention not a priority
 - Services not available
 - Evidence not used or modified
 - Training needs to be challenging, progressive & regular
 - Programmes often too short term
 - Refusal/non-adherence=50-90%; prevention not effective?





Resources

ProFaNE: http:/profane.co (Prevention of Falls Network Earth) - Online Community of healthcare professionals committed to the Prevention of Falls.

Later Life Training: www.laterlifetraining.co.uk
Training programmes, Advice, Booklets,
Videos/training DVDs, Websites

ProFouND: http://profound.eu.com disseminate best practice in falls prevention





What is ProFouND?

- 21 partners 12 countries
- disseminate best practice in falls prevention
- embed evidence based programmes in at least 10 countries/15 regions by 2015
- use internet & ICT to facilitate widespread implementation

www.profound.eu.org







ProFouND

- collate resources library
- create PFPApp distribute tailored, customised, best practice guidance
- cascade model e-learning to create cadre of accredited exercise trainers across Europe
- create "ICT for Falls Forum"









UK Manchester Glasgow London **Belfast Stuttgart Amsterdam** Leiden FIN Jyväskylä Umeå **Empoli Ancona** Barcelona Madrid E Valencia EL **Athens** Lamia **Trondheim** NO CH Zurich Ö Vienna

Budapest



WP 1	Management, co-ordination, sustainability & meetings	
	UNIMAN	
WP 2	Website construction and maintenance	
	GCU	
WP 3	Website resources content management	
	NTNU	
WP 4	Toolkit and best practice guidance development	
	RBMF	
WP 5	Best practice exercise regimen training	
	LLT	
WP 6	Evaluation and outcome monitoring	
	UNIMAN	
WP 7	ICT and technology for falls forum	
	ECHAlliance	
WP 8	National & regional implementation & dissemination	
	EuroSafe	
	ProFouND	

Prevention of Falls Network for Dissemination







Home

About Contact



Curating the best falls prevention resources for use by professionals in practice and to inform our application development



Developing powerful web applications to enable easy production of tailored information for at-risk older people



Maximising Take-up of Effective Falls Prevention Interventions

> Promoting the dissemination and adoption of evidence based best practice in falls prevention throughout europe and beyond

The Prevention of Falls Network for Dissemination (ProFouND) is a new EC funded initiative dedicated to bring about the dissemination and implementation of best practice in falls prevention across Europe.

ProFouND comprises 21 partners from 12 countries, associate members from a further 10 countries. ProFouND aims to influence policy to increase awareness of falls and innovative prevention programmes amongst health and social care authorities, the commercial sector, NGOs and the general public so as to facilitate communities of interest and disseminate the work of the network to target groups across EU. Read more about ProFouND.

ProFouND has eight work packages with clearly defined aims, objectives and deliverables.

















School of Nursing, Midwifery and Social Work, University of Manchester University Place, Oxford Road, Manchester M13 9PL

EC ICT PSP Grant Agreement 325087

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- 1. University of Manchester
- 2. Glasgow Caledonian University
- 3. Robert Bosch Gesellschaft für medizinische Forschung
- 4. Norges Teknisk-Naturvitenskapelige Universitet
- 5. Later Life Training Ltd
- EuroSafe European Association for Injury Prevention and Safety Promotion
- 7. Osteoporosis Betegek Magyarországi Egyesülete
- 8. Swiss Council for Accident Prevention bfu
- 9. Instituto de Salud Carlos III
- 10. Azienda Unità Sanitaria Locale 11 Empoli
- 11. National Center for Scientific Research "Demokritos"
- 12. Connected Health Alliance CIC
- 13. Instituto de Biomecánica de Valencia
- 14. Fundacio Institut Catala de l'Envelliment
- 15. TEILAM: Technical Educational Institute of Central Greece
- 16. Johanniter-Unfall-Hilfe in Österreich
- 17. Istituto Nazionale Riposo e Cura Anziani
- 18. Regionförbundet i Västerbottens län
- 19. Jyväskylän Yliopisto
- 20. Stichting Consument en Veiligheid







Deliverable	Description	Month
D1.1	Brief project presentation	1
D1.2	Kick-off meeting & report	2
D1.3	Management and communication guidelines	3
D1.4	Interim periodic report: Period	7
D1.5	First periodic report: Period	14
D1.6	Draft business plan and sustainability strategy	18
D1.7	Interim periodic report: Period 2	20
D1.8	Second periodic report: Period 2	26
D1.9	Business plan and sustainability	30
D1.10	Interim periodic report: Period 3	32
D1.11	Third periodic report: Period 3 1	36
D1.12	Final report	36





Deliverable	Description	Month
D2.1	Website online	2
D2.2	Resources management system	6
D2.3	Basic Platform for distance learning provision	6
D2.4	Secure data transfer portal	12
D2.5	EU Directory of Stakeholders	10
D2.6	PFP App online	24





Deliverable	Description	Month
D3.1	Content classification scheme	4
D3.2	Crowd sourcing underway	12
D3.3	Crowd sourcing quadrupled	30
D3.4	Content classification scheme	30
	revision	





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MANCH	Deliverable	Description	Month
	D4.1	Online videos on evidence based strength and balance exercises (English language version)	6
	D4.2	First evidence synthesis and generic guidance	8
	D4.3	First suite of tailored toolkits available online with implementation guidelines	18
	D4.4	Updated evidence syntheses and generic guidance	20
	D4.5	Full series of evidence synthesis reports with implementation guidance and toolkits for tailoring regimens available in app version	24
	D4.6	Updated evidence syntheses and generic guidance	34





Deliverable	Description	Month
D5.1	Home exercise booklets	1
	distributed for translation	
D5.2	Protocol for tutor training	4
D5.3	Online resources to support	6
	tutor training	
D5.4	Protocol for quality assurance	9
D5.5	Interim report on trained tutors	24
D5.6	Final report on trained tutors	36





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Deliverable	Description	Month
D6.1	Core standardised data set	4
D6.2	Protocol for standard data collection from administrative databases	6
D6.3	Open meeting on core datasets and protocols	7
D6.4	Protocol for bespoke data collection	9
D6.5	Baseline data in participating centres/regions	15
D6.6	Interim report on data collection	24
D6.7	Report on changes in participating centres and regions	36





Deliverable	Description	Month
D7.1	Launch of on-line marketplace and innovation factory platform	12
D7.2	Promotion of at least one reference site project or technology	12
D7.3	Report on networking event to encourage partnerships	24
D7.4	Repository of procurement, implementation and standardisation best practice with reference examples	24
D7.5	Report final ICT networking meeting	36





Deliverable	Description	Month
D8.1	Publication and dissemination strategy	8
D8.2	Launch stakeholder meeting	8
D8.3	Directory of EU stakeholder and template for regions	9
D8.4	Interim stakeholder open meeting	20
D8.5	Final stakeholder open meeting	36
D8.6	Report on implementation actions	36





