

ED attendance in Ireland

	NO, OF ATTENDANCES	% OF ED ATTENDANCES	
All Ages	865,057	100	26
17-64	591,909	68	20
65-84	183,827	21	45
85+	40,721	5	59

• Ireland: 21% 65-84, 5% ≥85

• UK: 20.8% >65 in 2016/2017

• Canada 12-24% of ED attendance ≥65

Older People with Frailty in ED

- Older people with Frailty: 5-10% of all ED attendees (Ferguson et al 2010)
- Need to consider Frailty along with presenting complaint (Preston et al, 2018)
- No frailty measure validated for widespread use in ED (Apostolo et al, 2017)
- How do we identify those who need CGA?





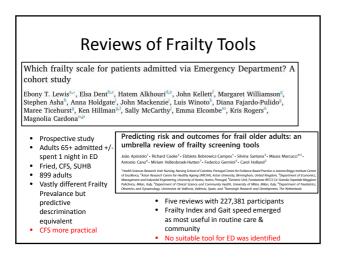
- Prospective cohort study in Canadian EDs
- 1,072 aged 65+ Independent ADLs, minor injury
- 3-month incidence of functional decline 12.1%
- Measuring frailty may enhance current risk screening for functional decline
- Feasibility issues to be addressed

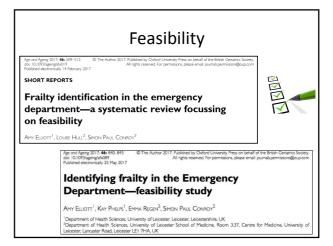
Systematic Review



Screening of the frail patient in the emergency department: A systematic review

- · 4 tools Clinical Frailty Scale, Deficit Accumulation Index, Identification of Seniors at Risk and Study of Osteoporotic Fracture Frailty Index
- Frailty predicts risk of admission, mortality, LOS but not 30day return to ED
- Recommend RCTs to compare with usual methods of care





Systematic review of Frailty Identification (Elliott et al, 2017)

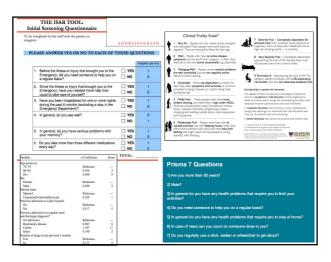
- 1872 titles, 1827 excluded, 45 papers full-text review, 4 contained data on feasibility / clinical acceptability
- 9 tools used in 3 countries
- Tools took 1 10 minutes to complete
- None able to be used in more than 52% of all older people potentially eligible
- Additional work required to appreciate how tools are used, by whom & when in order to ensure acceptability





Feasibility study (Elliott et al 2017)

- One large ED, 43% of total ED workforce
- Primary outcome likelihood of future use
- Ideal characteristics brevity, simplicity, multidimensionality
- Compared ISAR, CFS, PRISMA-7 & Silver code
- 75% of staff would use at least one of the tools again





Simple performance measures?

- Hand Grip strength
- Walking speed
- Timed-up and Go



• BUT do measures reflect a limitation imposed by acute illness or frailty? (Stiffler et al, 2013)

Hand Grip

- Predictor of all-cause mortality
- Predictive validity for decline in cognition, mobility, functional status
- · Associated with Frailty

(Rijk et al, 2015)

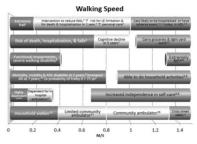


Walking speed (Middleton et al, 2015)

- Simple indicator of functional capacity and general health
- Predictive of:
- Functional dependence
- Frailty
- Mobility disability
- Cognitive decline
- Response to Rehabilitation
- Hospitalization
- Cardio-vascular related events & mortality
- All cause mortality
- Timed central straight path 5-10m, 2.5m acceleration







on of walking speeds and the associated outcomes. m/s, meters per second; ↑,
ed; LE, lower extremity; indep, independent; ADL, activities of daily living; AD,
mer's disease; 2x, two times; yo, years old; d/c, discharge

Frailty & gait speed

- Study of 1327 people >65, frailty in 10.5%, walking speed >0.9m/s ruled out frailty(Castell et al, 2013)
- Walking speed <0.8m/sec is a simple approach to diagnosing frailty in primary care
- In ED, patients with gait speed <1.0m/s identified as 'high risk' for an adverse incident (Tucker et al, 2016)

Timed Up and Go



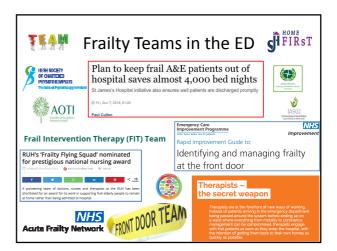
- TUG most widely used, not recommended (Eagles et al, 2018)
- Elliott et al (2017) do not recommend physical measures eg. TUG/hand-held dynamometry due to feasibility

Re-visiting CGA at SJH ED

- Cross-sectional study
- Think Frailty & CFS
- Gait speed
- TUG
- Functional mobility Ax
- Grip strength
- · Calf circumference



- 101 participants
- Frailty (CFS≥5) 35%
- 52% used gait aid
- 'Frail' more likely to be female (p.036), using a walking aid (p.001) and to have had a fall within the last 6 months (p.007).
- Frailty not significantly associated with hospital admission, grip strength or calf sarcopaenia



Recommendations (Theou et al, 2018)

Older Adults in the Emergency Department with Frailty

- Older person should have interdisciplinary assessment in ED to identify frailty
- Review medications, screen for geriatric syndromes, care plan addressing needs including patient goals & preferences
- Follows the patient beyond the ED



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