

IL TEAM GERIATRICO IN PRONTO SOCCORSO PER LA PRESA IN CARICO DEI PAZIENTI FRAGILI: L'ESPERIENZA FIORENTINA DEL GIROT

Enrico Benvenuti (Firenze)

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The History of Geriatric Emergency Medicine

Teresita M. Hogan, MD, Lowell W. Gerson, PhD, Arthur B. Sanders, MD

"Excellent emergency care does not happen by chance. The standard emergency approach that excels in the young, fails in older patients. Older adults experience unnecessary morbidity and excess mortality in our emergency departments"





The History of Geriatric Emergency Medicine

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Figure 1: Geriatric Emergency Medicine Timeline

Geriatrio	2020 Journal of Geriatric			
		2001-2009 Research Setting Priority	2010 GEM Competencies for EM Residents published	Emergency Medicine Launched 2021 1 st GEAR
1990 JAHF funds ED Elder Assessment	1994 AGS forms Geriatrics For Specialists Initiative	Project 2002 AGS Jahnigen	2011 first EM GEMSSTAR NIH award made	papers published 2022 AGEM 10 th anniversary
Project 1991 SAEM forms	1994 Philanthropy funded Beeson	Awards begin 2003 ACEP forms Geriatric Section	2014 GED Guidelines published	2023 ACEP targets 900 total accredited
Geriatric Task Force 1992 Report on ED elder care issued	Awards begin 1994 EM joins GSI	2008 First k nown GED opens	2014 GEDC forms 2016 Beeson Awards	GEDs 2023 GEDC targets
1993 JAHF funds ED Elder Needs Project	Specialty Council 1996 Emergency Care of Elder Person	2009 GEM quality indicators published	continue under NIH 2018 GEAR formed	providing 10,000 clinicians with GEM resources
1994 Seed grants for GEM research	textbook/training manual published	2009 SAEM forms Academy of GEM	2018 ACEP GED accreditation begins	2023 Strategic planning
1990		2000s	2010s	2020s





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Figure 3: Lesson Learned Rise of GEM

	Lessons Learne	ed Rise of GEM	
Problem Definition/Recognition	Research	Establish Champions	Clinical Practice
Needs Analysis:YES we have a problem! olncreased morbitdy/mortality olack of education obemographic "silver tsunami"	Observational Articles Controlled Studies Guidelines Research Network	Inside and Outside of EM Organizations Leaders/Influencers	Individual Experience Doctors and Nurses Patients and Families Some of the above in positions of influence
Focus on important clinical issues and outcomes	Med School and Residency Training GEM Fellowships	Career Development Grants Funders/Philanthropies NIH Mechanisms, Program Officers GEAR	How to improve clinical care? ∘GEDC ∘GEDA
Lived stories ED staff and patients	Curriculum development and dissemination Residency Leaders (CORD)	ACEP Geriatrics Section	Organizational Intervention and Support Hospital Systems
Numbers of failures in data	Competencies ABEM Testing	SAEM Task Force and Academy	Hospital Leaders and System Changes
External Support: •AGS, •Hartford, •Atlantic •Gary and Mary West Foundation	GEDC GEAR		National Accreditation GEDs



Why GEAR?

With an aging U.S. population, there is an increasing demand for optimal, interactive care for older adults across emergency departments (EDs), hospitals, and health systems. Older adults use the emergency department (ED) as an important source of acute medical care, making 20 million visits annually. Yet, the amount of strong evidence resulting in improved outcomes in geriatric emergency care is limited. People with dementia are twice as likely to use the ED and 1.5 times more likely to have an avoidable visit. When in the ED, they often struggle and are at greater risk of poor outcomes; however, little research has studied how to improve emergency clinical care for people with dementia. To address this gap, we must: 1) identify areas for improvement of emergency care for older people, including those with dementia and 2) develop and test strategies to improve the care delivered to this vulnerable population.

The need for research in geriatric emergency medicine (GEM) was acknowledged early on by Lowell Gerson, PhD, who observed the disproportionate use of emergency departments by older persons and, with others, formed the Society for Academic Emergency Medicine Geriatric Emergency Medicine Task Force. Dr. Gerson's work and mentorship has led to several developments, including the establishment of clinical guidelines and accreditation processes for geriatric emergency departments. The Geriatric Emergency Care Applied Research Network (GEAR), which aims to establish infrastructure to support collaborative, interdisciplinary research to improve care for older adults, is yet another result of that work

Developed by leaders in emergency medicine to ensure that our older patients receive well-coordinated, quality care at the appropriate level of every emergency department encounter.





One size ED care does not fit all.

ACEP.org/GEDA

Department Today

Why should my institution seek GED accreditation?

20 million seniors visit our nation's EDs.

With the number of older adults growing rapidly, there is a critical need for more geriatric-focused care.

Preparing for accreditation allows the hospital and ED to focus on the needs of this complex and growing population and to ensure that the resources available to the ED meet the needs of the patients they serve.

Early data from existing models of geriatric emergency care — models that promote best clinical practices and create a more positive and sensitive physical environment — show they have the potential to improve health outcomes, coordinate care more effectively, and reduce costs.

"Accreditation is just one step in the process of providing geriatric attuned healthcare in the Emergency Department. We continue to try out new clinical pathways or equipment to make our care better."

Lauren T. Southerland, MD, FACEP
 The Ohio State University Wewner Medical Center, OH

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Criteria by accreditation level:



1 Staffing 1 emergency medicine MD/DO lead with evidence of focused geristric EM education 1 RN with evidence of focused geristric EM education 2 Physician champion/Medical Director with evidence of focused geristric EM education 2 Physician champion/Medical Director with evidence of focused geristric EM education 2 Physician champion/Medical Director with evidence of focused geristric EM education 2 Nurse case manager/transitional care nurse present > 56 hrs/week 2 Interdisciplinary geristric assessment team includes > 2 roles 1 Interdisciplinary geristric assessment team includes > 4 roles 3 1 executive/administrative sponsor supervising GED program 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	CRITERIA	LEVEL 3	LEVEL 2	LEVEL 1
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High quality signage and way-finding	Non-slip floors			0
	Adequate hand rails			0
	High quality signage and way-finding			0
Writeel-criair accessible ionets	Wheel-chair accessible toilets			0
Availability of raised toilet seats	Availability of raised toilet seats			0



The following criteria outline the minimum standards for accreditation of a geriatric ED in three levels. Levels 1 and 2 are designed to reflect an increasing commitment to senior-specific care in the ED. Each level has an accreditation term of three years.



Level 1

Accreditation Fee: \$15,000

An ED with policies, guidelines, procedures, and staff (both within the ED and throughout the institution)

providing a coherent system of care targeting and measuring specific outcomes that form an overall elevation in ED operations and transitions of care both to and from the ED, all coordinated for the improved care of older adults.



Level 2

Accreditation Fee:

\$7,500

An ED that has integrated and sustained senior care initiatives into daily operations and demonstrates

interdisciplinary cooperation for delivery of senior services. This level has an established supervisor coordinating the staff tasked with the daily performance of senior services.



Level 3

Accreditation Fee:

An ED with one or more specific initiatives that are expected to elevate the level of senior care. \$2,500

Personnel to implement these efforts are identified and trained.

Metrics for the initiatives are followed.











Join

Login

Silver Book II

Ho

Quality care for older people with urgent care needs

Welcome to the Silver Book II, written by leading international experts in frailty and hosted by the British Geriatrics Society.

The Silver Book II addresses a wide range of urgent care issues specific to older people. Aimed at clinicians and other healthcare professionals working in emergency departments and urgent care, this updated resource is presented in a highly accessible digital format and is free of charge.



Written by clinicians for clinicians, we hope this resource will be of help and perhaps some inspiration to colleagues supporting the care of older people with urgent care needs across the world."

- Simon Conroy, Professor of Geriatric Medicine, University of Leicester, Co-lead Author of Silver Book II Ann Emerg Med. 2020 February; 75(2): 162-170. doi:10.1016/j.annemergmed.2019.08.430.

Concepts in Practice: Geriatric Emergency Departments

Elements to consider when choosing a Geriatric ED model of care.

	GED Unit	Geriatrics Practitioner Model	Geriatrics Champion	Geriatric-Focused Observation Unit Program
Additional staff required:	Geriatrics Practitioner Case Manager Pharmacy support Physical therapists Social worker	Geriatrics Practitioner Case Manager Pharmacy support Physical therapists Social worker	Case Manager Pharmacy support Physical therapists Social worker	Inpatient Geriatrics consult service Case Manager Pharmacy support Inpatient Physical Therapists Social worker
Initial training costs:	Geriatrics training for unit nurses and providers	Geriatrics training for all ED nurses and providers Geriatrics training for practitioner	Geriatrics training for all ED nurses and providers	Geriatrics training for all ED nurses and providers
Physical space restraints	Yes	No	No	No
Effect on ED length of stay	unknown	increased	unknown	none or decreased
Effect on hospitalization rates	decreased ^{21, 22}	decreased ^{26, 29, 54}	unknown ⁴⁰	decreased ⁴²⁻⁴⁴



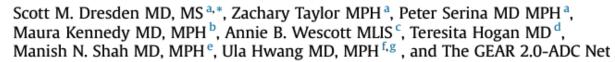
JAMDA

journal homepage: www.jamda.com



Review Article

Optimal Emergency Department Care Practices for Persons Living With Dementia: A Scoping Review



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Discussion

This scoping review demonstrates the state of research on ED care practices for PLWDs. This review demonstrates that studies of components of ED care and emergency care needs for PLWDs are wide ranging with little depth on any topic. Studies on components of ED care for PLWDs included a comprehensive geriatric assessment and dedicated ED unit, care partners in the ED and hospital care companions for PLWDs, identifying delirium, fall prevention, admission to a home hospital program, pain assessment and management, all palliative care, and changes to the physical environment. Four studies showed improvement in patient-centered outcomes or health services use: a comprehensive geriatric assessment and dedicated ED unit, stimulation reduction and noncontact monitoring, dementia companions, and hospital at home program. These successful interventions should be considered for future multicentered studies.

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SPECIAL ARTICLE



Providing care for older adults in the Emergency Department: expert clinical recommendations from the European Task Force on Geriatric Emergency Medicine

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Table 1 Topics for Geriatric Emergency Medicine guidelines selected by experts after modified Delphi procedure

Rank	Topic
1	Comprehensive Geriatric Assess- ment in the Emergency Department
2	Age/frailty adjusted risk stratification
3	Delirium and cognitive impairment
4	Family involvement
5	Environment
6	Polypharmacy
7	Silver trauma
8	End of life care in the acute setting

Geriatric consultation service in emergency department: how does it work?

Terry Man Yue Yuen, ¹ Larry Lap Yip Lee, ¹ Ikea Lai Chun Or, ¹ Kwai Lin Yeung, ¹ Jimmy Tak Shing Chan, ¹ Catherine Pui Yuk Chui, ² Emily Wai Lin Kun²

Figure 1 Flowchart showing the logistic of geriatric consultation service. CNS, community nursing service; ED, emergency department; EMW, emergency medicine ward.

fall or dizziness, preferably CT scan of brain has been done in selected cases 7. Rehabilitation either in inpatient or outpatient setting is beneficial 8. Patient presented with adverse drug reaction and polypharmacy 9. Patient presented with fever but infectious cause is adequately excluded

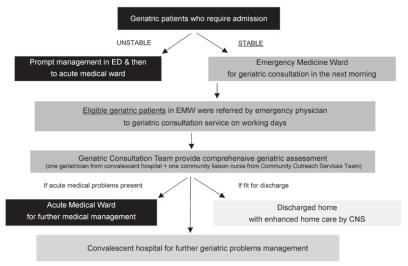


Table 1 List of eligible and ineligible cases of programme 'We Care' List of eligible cases for programme 'We Care' List of ineligible cases for programme 'We Care' Patient aged 65 OR < 65 years who was an old age home resident with the following presentation 1. Patient is recently discharged from TPH, AHNH or recurrent A&E attendances 1. Patient clinically and socially can be discharged by emergency physician 2. Patient with known terminal cancer for palliative care 2. Patient <65 years old except old age home resident 3. Patient with known end organ failure who decided not for active resuscitation 3. Cases with fever or renal replacement therapy and displayed coping problem 4. Cases diagnosed with gastroenteritis 4. Patient with recurrent hospital admission (mild COAD, CHF, etc) 5. Patient with multiple medical problems, but not indicated for direct acute hospital admission 6. Patient with poor social support and recent decline in functional level. For example,

Geriatric consultation service in emergency department: how does it work?

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Table 4 Patients' characteristics versus outcomes

	Not required acute medical admission after consultation?				Death <14 days after discharge from geriatric consultation?			
	No AHNH	Yes TPH/home	p Value	OR (95% CI of OR)	No	Yes	p Value	OR (95% CI for OR)
Clinical severity								
Urgent (triage category 1-3)	263	1337	0.021	1.382 (1.049 to 1.821)	1568	32	0.012	0.245(0.075 to 0.804)
Non-urgent (triage category 4-5)	75	527			599	3		
Sex								
Female	180	943	0.367	1.113 (0.882 to 1.403)	1111	12	0.046	2.016(0.998 to 4.073)
Male	158	921			1056	23		

AHNH, Alice Ho Miu Ling Nethersole Hospital; TPH, Tai Po Hospital.

Table 3 Top 10 ED diagnoses for programme 'We Care' geriatric consultation

ED diagnosis	Number of cases	%
COAD	521	23.7
Heart failure	244	11.1
Dizziness	242	11.0
Chest pain	122	5.5
Decreased GC	117	5.3
Hypoglycaemia	83	3.8
Hypertension	80	3.6
Bronchitis	47	2.1
Hyperglycaemia	46	2.1
Syncope	45	2.0

ED, emergency department; GC, general condition.

Geriatric consultation service in emergency department: how does it work?

Terry Man Yue Yuen, ¹ Larry Lap Yip Lee, ¹ Ikea Lai Chun Or, ¹ Kwai Lin Yeung, ¹ Jimmy Tak Shing Chan, ¹ Catherine Pui Yuk Chui, ² Emily Wai Lin Kun²

Table 2 Demographic data, characteristics and outcomes of patients

·	Number	r	Percentage		
Total	2202		100%		
Venue of discharge					
Acute Medical Ward (AHNH)	338		15.3%		
Convalescent Medical Ward (TPH)	825	1864	37.5%	84.7%	
Home	1039		47.2%		
CNS referral (for those who were discharged home)					
No	865		83.3%		
Yes	174		16.7%		
Adverse outcomes					
Death within 14 days					
No	2167		98.4%		
Yes	35		1.6%		
Reattendance within 48 h					
No	2166		98.4%		
Yes	36		1.6%		

Table 2 Demographic data, characteristics and outcomes of patients

	Number	•	Percentage	
Total	2202		100%	
Clinical severity				
Triage category				
Urgent				
1	6	1600	0.3%	72.7%
2	46		2.1%	
3	1548		70.3%	
Non-urgent				
4	594	602	27.0%	27.3%
5	8		0.3%	

Effectiveness of a Geriatric Emergency Medicine Unit for the Management of Neurocognitive Disorders in Older Patien Results of the MUPACog Study

Dementia and Geriatric Cognitive Disorders

Research Article

Dement Geriatr Cogn Disord DOI: 10.1159/000510054 Received: May 19, 2020 Accepted: July 9, 2020 Published online: December 17, 2020

Results: The study included 801 patients admitted to the ED between January 1, 2015, and December 31, 2018 (400 in the exposed group). Of those, 72.5% were female, and the mean age was 87 ± 5 years. After adjusting for confounding factors, the 30- day readmission rate was significantly associated with the MUPA unit intervention.

Conclusion: CGA in a GEMU improved health outcomes in elderly patients with NCD in the ED. We recommend that all EDs include a geriatric team, such as the MUPA unit, to treat all patients with NCD admitted to the ED.

Table 2. Multivariate analyses of the 30-day readmission rate (first step)

Variables	p value*	Logistic regression [†]				
	(uni- variate)	OR	95% CI	<i>p</i> value [‡]		
Age ≥85 years old	0.84	1.07	(0.71-1.61)	0.75		
Male	0.05	1.49	(1.00-2.20)	0.53		
MUPA unit intervention	0.04	0.68	(0.47 - 0.98)	0.03		
Home	0.94	1.04	(0.71-1.52)	0.83		
History of falls	0.38	1.20	(0.83-1.75)	0.33		
Charlson index ≥5	0.50	0.78	(0.33-1.85)	0.57		
Diagnosis of fall risk	0.83	0.98	(0.67-1.44)	0.93		
Hospitalization	0.11	0.77	(0.54-1.11)	0.17		

CI, confidence interval. * Variables with p values ≤ 0.25 in univariate analyses and essential variables (age, sex, and variables identified previously) were included in the model. † First step of the stepwise logistic regression with 797 patients. B = -1.18. ‡ p values ≤ 0.05 were considered to indicate statistical significance.

Table 3. Multivariate analyses of the 30-day readmission rate (final step)

Variables	p value*	Logis		
	(uni- variate)	OR	95% CI	<i>p</i> value [‡]
MUPA unit intervention Male	0.04 0.05		(0.46-0.94) (0.99-2.12)	0.02 0.06

CI, confidence interval. * Variables with p values ≤ 0.25 in univariate analyses and essential variables (age, sex, and variables identified previously) were included in the model. † Final step of the stepwise logistic regression with 797 patients. B = -1.36. ‡ p values ≤ 0.05 were considered to indicate statistical significance.

Improving outcomes for older people in the emergency department: a review of reviews

Louise Preston , ¹ James David van Oppen , ^{2,3} Simon Paul Conroy , ² Suzanne Ablard , ¹ Helen Buckley Woods , ⁴ Suzanne M Mason , ¹

Conclusions The evidence base describing interventions is weak due to inconsistent reporting, differing emphasis placed on the key characteristics of primary studies (staff, location and outcome) by review authors and varying quality of reviews. No individual interventions have been found to be more promising, but interventions initiated in the ED and continued into other settings have tended to result in more favourable patient and health service outcomes. Despite many interventions reported within the reviews being holistic and patient focused, outcomes measured were largely service focused.



U.S. Department of Veterans Affairs

Public Access Author manuscript

JAm Geriatr Soc. Author manuscript; available in PMC 2019 August 02.

Published in final edited form as:

JAm Geriatr Soc. 2019 July; 67(7): 1516–1525. doi:10.1111/jgs.15854.

RESULTS: A total of 2000 citations were identified; 17 articles describing 15 unique studies (9 randomized and 6 nonrandomized) met eligibility criteria and were included in analyses. ED interventions showed a mixed pattern of effects. Overall, there was a small positive effect of ED interventions on functional status but no effects on QOL, patient experience, hospitalization at or after the initial ED index visit, or ED return visit.

CONCLUSION: Studies using two or more intervention strategies may be associated with the greatest effects on clinical and utilization outcomes. More comprehensive interventions, defined as those with all three key intervention components present, may be associated with some positive outcomes.

Similar to previous reviews and the 2014 Geriatric Emergency Department Guidelines, <u>our finding that bridge designs may</u> <u>be associated with positive outcomes suggests that ED visits should not be considered in isolation but rather as an integral part of the older patient's continuum of care, bridging inpatient and outpatient services.</u>

HOSPITAL AT HOME®

Home-based care for older adults By Johns Hopkins Medicine

Hospital at Home® is an innovative geriatric care model providing hospitallevel care in a patient's home as a full substitute for acute hospital care.

The program is currently being implemented at numerous sites around the United States by VA hospitals, health systems (including Presbyterian Health System), home care providers, and managed care programs as a tool to cost-effectively treat acutely ill older adults, while significantly improving patient safety, quality, and satisfaction.

The Hospital at Home® solution includes a range of tools to support adoption and implementation by any health care organization including:

- Clinical eligibility criteria
- Implementation manual
- Financial planning and evaluation tools
- Patient recruitment and education tools
- Measurement tools
- Patient-tracking mechanisms

Outcomes of implementing Hospital at Home® compared to similar hospitalized patients:

- Lower mortality rates
- Lower rates of delirium sedative medication and restraints use
- Higher satisfaction of patient and family
- Less caregiver stress, better functional outcomes
- Cost savings of 19% to 30% compared to traditional inpatient care
- Lower average length of
- Fewer lab and diagnostic tests compared with similar patients in hospital acute care
- Advances the Triple Aim of clinical quality, affordability and exceptional patient experience

HOSPITAL AT HOME PROGRAMS: enable patients to receive acute care at home reducing complications while cutting the cost of care by 30 percent or more.}

Hospital at Home® allows an older adult with an acute illness to remain in the comfort of their own home while receiving hospital-level care. This model helps older adults avoid common iatrogenic complications associated with stays in traditional acute care hospitals such as delirium, polypharmacy, functional decline, and others

WHY CHOOSE THE JOHNS HOPKINS HOSPITAL AT HOME PROGRAM

Hospital at Home® was developed by researchers at the Johns Hopkins University Schools of Medicine and Public Health. The concept was successfully tested in a National Demonstration and Evaluation Study at several Medicare managed care sites and at a VA Medical Center. It was the first implementation of the Hospital at Home model to completely substitute care in the patients' home for acute inpatient care.

Annals of Internal Medicine

IMPROVING PATIENT CARE

Hospital at Home: Feasibility and Outcomes of a Program To Provide Hospital-Level Care at Home for Acutely III Older Patients

Bruce Leff, MD; Lynda Burton, ScD; Scott L. Mader, MD; Bruce Naughton, MD; Jeffrey Burl, MD; Sharon K. Inouye, MD, MPH; William B. Greenough III, MD; Susan Guido, RN; Christopher Langston, PhD; Kevin D. Frick, PhD; Donald Steinwachs, PhD; and John R. Burton, MD

Background: Acutely III older persons often experience adverse events when cared for in the acute care hospital.

Objective: To assess the clinical feasibility and efficacy of providing acute hospital-level care in a patient's home in a hospital at

Design: Prospective quasi-experiment.

Setting: 3 Medicare-managed care (Medicare + Choice) health systems at 2 sites and a Veterans Administration medical center

Participants: 455 community-dwelling elderly patients who quired admission to an acute care hospital for communityquired pneumonia, exacerbation of chronic heart failure, exac bation of chronic obstructive pulmonary disease, or cellulitis.

Intervention: Treatment In a hospital-at-home model of a that substitutes for treatment in an acute care hospital.

Measurements: Clinical process measures, standards of ca clinical complications, satisfaction with care, functional status, a costs of care.

798 @ 2005 American College of Physicians

Results: Hospital-at-home care was feasible and efficacious in delivering hospital-level care to patients at home. In 2 of 3 sites studied, 69% of patients who were offered hospital-at-home care chose it over acute hospital care: in the third site, 29% of patients chose hospital-at-home care. Although less procedurally oriented than acute hospital care, hospital-at-home care met quality standards at rates similar to those of acute hospital care. On an Intention-to-treat basis, patients treated in hospital-at-home had a shorter length of stay (3.2 vs. 4.9 days) (P = 0.004), and there was some evidence that they also had fewer complications. The

Context

Hospital care for older people often means latrogenic complications and a decline in function. Home hospital care might reduce these adverse outcomes.

Content

Patients were 65 years of age or older and required hospital care for pneumonia, heart failure, chronic obstructive pulmonary disease, or cellulitis. In phase I, they were hospitalized. In phase II, they could choose home hospital care (continuous nursing care followed by at least daily visits from a nurse and a physician). Sixty percent of patients chose home hospital care. Patients who received this type of care had shorter stays; fewer procedures, consultations, and indwelling devices; less delirium; greater satisfaction: and similar functional outcomes.

Cautions

The study was nonrandomized, and data were missing.

Conclusion

Home hospital care may be a good alternative for selected patients.



Cochrane Database of Systematic Reviews

Admission avoidance hospital at home (Review)

Shepperd S, Iliffe S, Doll HA, Clarke MJ, Kalra L, Wilson AD, Gonçalves-Bradley DC

Authors' conclusions

Admission avoidance hospital at home, with the option of transfer to hospital, may provide an effective alternative to inpatient care for a select group of elderly patients requiring hospital admission. However, the evidence is limited by the small randomised controlled trials included in the review, which adds a degree of imprecision to the results for the main outcomes.

Analysis 1.1. Comparison 1 Admission avoidance hospital at home versus inpatient care, Outcome 1 Mortality at 3 months using IPD.

Study or subgroup	Admission avoidance	Inpa- tient care			mortality				Weight	mortality
	N	N	(SE)		IV,	Fixed, 95%	CI			IV, Fixed, 95% CI
Davies 2000	97	50	-0.1 (0.627)			-+-			8.16%	0.94[0.27,3.2]
Harris 2005	39	37	2 (1.428)				-		1.57%	7.54[0.46,123.97]
Kalra 2000	142	151	-0.4 (0.393)			-+-			20.76%	0.69[0.32,1.49]
Ricauda 2004	60	60	-0.5 (0.348)			-			26.48%	0.63[0.32,1.24]
Wilson 1999	101	96	-0.2 (0.273)			-			43.03%	0.82[0.48,1.4]
Total (95% CI)						•			100%	0.77[0.54,1.09]
Heterogeneity: Tau ² =0; Chi ² =	3.12, df=4(P=0.54); I ² =0%									
Test for overall effect: Z=1.45	(P=0.15)									
		Favours ho	spital at home	0.01	0.1	1	10	100	Favours inp	atient care



1.0 Purpose of the guiding principles

This resource is a source of information and evidence for Integration Authorities and NHS Boards in Scotland on the provision of Hospital at Home services.

It is intended to assist in local and regional planning for acute and specialist services to support people, who would ordinarily require admission to acute hospital, to receive treatment in their home.





Hospital at Home Programme

Progress update October 2023

Hospital at Home (H@H):

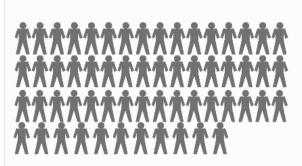
- is a short-term, targeted intervention providing acute level hospital care in an individual's own home or homely setting.¹
- has high satisfaction and patient preference across a range of measures.¹
- reduces pressure on unscheduled acute care in hospitals by avoiding admissions and accelerating discharge.¹
- has consistent evidence of lower costs compared to inpatient care.¹

What we do:

- Optimise and expand H@H services: Support NHS boards/HSCPs to optimise and expand their existing H@H services.
- Develop new H@H services: Support remote and rural areas across Scotland to implement new H@H services.
- National Learning System: Enable H@H services to share and learn from each other.
- National Infrastructure: Develop national infrastructure to enable sustainable H@H services.

Impact so far...

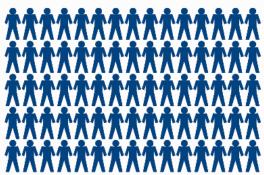
33% increase in patients managed by hospital at home services²



5,322 patients were managed by H@H

services from April 2022 to September 2022.

compared to...

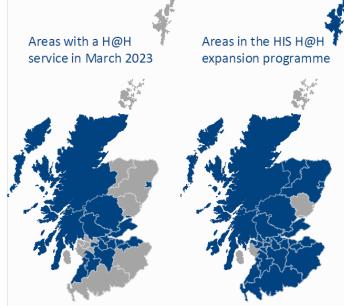


7,076 patients managed by H@H services from April 2023 to September 2023.

H@H services prevented over 7,000 people spending time in hospital during April-September 2023, relieving pressure from A&E and the Scottish Ambulance Service.

This has been achieved by...

Working with more areas across Scotland¹



More areas than ever now either have a H@H service or are working with Healthcare Improvement Scotland to develop a service. This includes some of the most remote and rural areas of the country. It is equivalent to 370 "virtual hospital at home beds". The expansion programme includes 27 health and social care partnerships, meaning an expansion of up to 10 new HSCP areas.

Allocating £3.6 million

Scottish Government have allocated £3.6 million to continue the growth of H@H services in 2023/24.

This is being used by H@H services to support more patients by:



Obtaining equipment, including point of care testing, to reduce travel time.

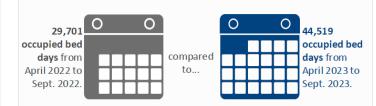


Performing remote consultations to promote equity of access and increase consultant sessions



Recruiting and training staff to build capacity and to free up clinical time.

Increasing bed days by 50%1



Occupied bed days are counted in H@H when a patient stays overnight in the service. Since 1 April 2023 there has been a change to the way in which these are measured for greater accuracy. This may contribute towards a higher increase in this period compared with the previous year.

Networking events in Glasgow and Inverness⁴

Networking events were held for people working in H@H services in September and October 2023.

Of the attendees who provided feedback, **94%** said that the events were useful or very useful.

As a result of the event, attendees said:

- They would develop pathways
- Link with other services including SAS, and
- Develop their point of care testing.

Supported by:



No place like home

Using virtual wards and 'hospital at home' services to tackle the pressures on urgent and emergency care

January 2022

No place like home

What will help to relieve the pressure on hospitals?

- Investment in virtual wards, 'hospital at home' services and social care teams
- > A sustainable health and social care workforce.
- A cross-government strategy on health inequalities.

What support do community resource teams need?

- > Better regional collaboration and clinical networking across health boards.
- Investment in training more clinicians to work in the community.
- Rapid access to the right diagnostics and interventions.
- > Closer working relationships with therapists, social care, and palliative care teams.

It's time to change the way we work

During the second winter of the COVID-19 pandemic, NHS waiting lists are at an all-time high. Hospital emergency departments, primary care and GPs, urgent care and the ambulance service in Wales are all under enormous pressure. Prolonged stay in acute hospitals increases the risk of hospital-acquired infections in older frail patients and disrupts patient flow, an issue that is exacerbated by bed shortages. It is time to think outside the box: radical change is needed.

We're calling for an expansion of the number of virtual wards and 'hospital at home' services that provide specialist medical care in the community across Wales. These teams can help to reduce hospital admissions, get people home more quickly, and improve the quality of patient care.

Wales is getting older

The number of people aged over 65 in Wales is projected to increase by 16.1% between 2020 and 2030. The increase is even larger in older age groups—the number of those aged over 75 is projected to increase by 23.9% in the same time period.

COVID-19 mortality rates <u>rise</u> sharply with age, and COVID-related hospital admissions have consistently been <u>highest</u> among older people. Yet during the second wave of the pandemic in winter 2020/21, a significant number of people with COVID-19 became infected while in hospital-around two in five of these patients in Wales died, and those with hospital-acquired infection were typically older and more frail than those infected within the community.

Where possible, we need to keep people out of hospital

Many of those who died with probable hospital-acquired COVID-19 had been in the hospital for at least a month prior to exposure. Keeping older people out of hospital and in their own home has never been more important. Over the next few months, the vision of care closer to home as set out in <u>A Healthier Wales</u> must be supported by a significant investment in community resource and staffing, especially in social and intermediate care.

1. Investment in care closer to home

The long-lasting impact of the COVID-19 pandemic will inevitably place even more pressure on the social care system. The Welsh government must prioritise social care reform, while collaboration between GPs and specialist doctors should be at the forefront of the design and delivery of the care of older people with frailty. Strong professional relationships across primary and secondary care are built on good communication. Intermediate care — including virtual wards and 'hospital at home' services — reduces unnecessary hospital admissions and enables people to stay at home for longer.

We need: An ambitious plan to tackle waiting lists and the NHS backlog: not just asking clinicians to 'do more', but expanding social care provision and community medicine and supporting patients and the workforce to adopt new technologies to harness innovation and improve resilience.



What are community resource teams?

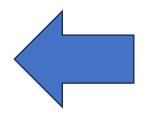
Community resource teams (CRTs) are made up of health and social care professionals who coordinate care for people living at home. Models vary across Wales: some teams provide intermediate acute healthcare, others are integrated with social care and provide holistic assessment, treatment and support for both short and long-term care. However, CRTs are often under-resourced and under-recognised. During the pandemic, some CRT staff have been redeployed to other parts of the NHS, which has reduced the capacity of community teams to treat patients at home and keep them out of hospital in the first place.

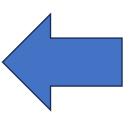
What are virtual wards?

A virtual ward is a multidisciplinary team meeting involving primary care, secondary care, the local authority and voluntary services. The aim is to reduce pressure on unscheduled care by preventing inappropriate hospital admissions and improving flow through hospital by expediting discharge. This is done by providing comprehensive multidisciplinary care in the community. During a virtual ward round, health and care professionals discuss how to support older people with frailty, those with chronic disease and those with increasing social care needs. The aim is to do this within their own community. In addition, virtual wards can improve patient experience, reduce NHS costs and lead to more collaborative working.

What is a 'hospital at home' service?

Hospital at home provides short-term, intensive, hospital-level care for acute medical problems in a patient's home. This is provided by multidisciplinary healthcare teams led by a senior clinician. It can provide urgent access to relevant blood tests, ultrasounds and hospital-level diagnostics and interventions and gives access to the same specialty advice as would be provided for any hospital inpatient. Providing specialist healthcare at home could reduce pressure on NHS resources and be less disruptive to older people with frailty, while leading to higher levels of patient satisfaction.





Hospital in the Home

Guideline





PURPOSE

In NSW, Hospital in the Home (HITH) is defined as the range of service delivery models providing (acute and post-acute) care that is delivered in home (including Residential Aged Care Facilities), clinic or other settings as a substitution or avoidance of hospital.

The HITH Guidelines have been developed by clinicians to provide clear, standardised guidance to Local Health Districts and Specialty Health Networks (LHD/SHN) regarding terminology, key elements and principles of HITH in NSW.

The need for the delivery of acute care in the home as an alternative to care in a hospital setting is being driven by advances in medicine, increased pressure on the healthcare system and evidence of improved health outcomes for patients who spend less time in hospital.

The guidelines reflect evidence based best clinical practice, expert consensus and opinion and although the guidelines are not mandatory, they have been endorsed by clinicians and NSW Ministry of Health with an expectation that the key principles will be utilised in standardising practice across NSW.

KEY PRINCIPLES

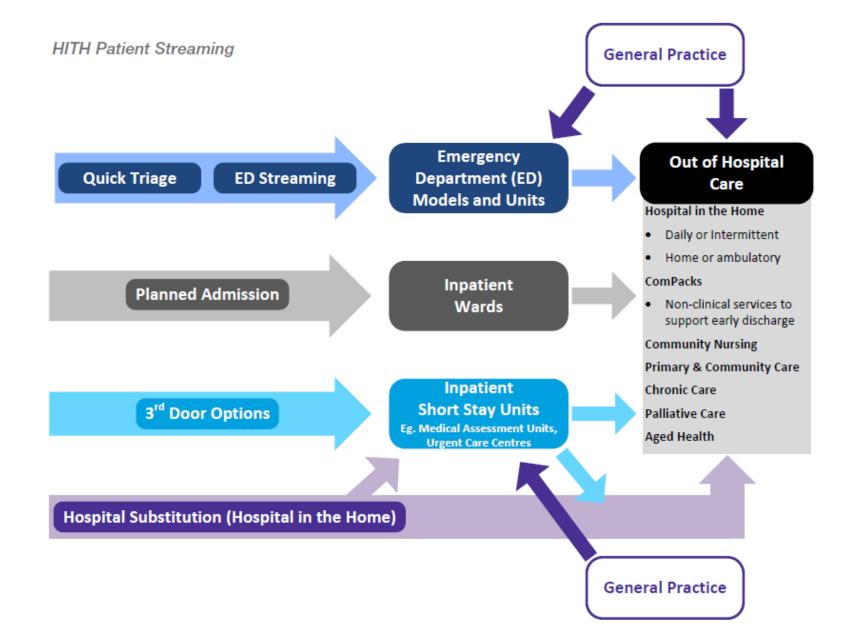
The guidelines underlying principles will support LHDs/SHNs to develop evaluate and monitor HITH services to meet local needs.

Underpinning these guidelines are the following key principles:

- keeping people healthy and out of hospital
- local and system level strategic planning for growth of HITH to meet acute bed demand
- mandatory reporting and data collection framework
- consistency of evaluation
- leveraging of funding streams including Activity Based Funding



Ministry of Health, NSW 73 Miller Street North Sydney NSW 2060 Locked Mail Bag 961 North Sydney NSW 2059 Telephone (02) 9391 9000 Fax (02) 9391 9101 http://www.health.nsw.gov.au/policies/



Hospital Care in the Comfort of Home



Hospital at Home® provides safe, high-quality, hospital-level care to older adults in the comfort of their own homes.

Developed by the Johns Hopkins Schools of Medicine and Public Health and tested at medical centers across the country, this innovative care model lowers costs by nearly one-third, and reduces complications. It is highly rated by patients and caregivers alike.

If your hospital wants to implement Hospital at Home in a safe and effective manner, contact us to learn more.

How Does Hospital at Home Work?

Is Your Organization Ready for Hospital at Home?

Hospital at Home Toolkit



info@hospitalathome.org

nome About Us		Develop four i	rogram	News & Resources	Stories	Contact Us
Overview		Histor	у			
listory		1995	Dr. John Burton, of Johns Hopkins School of Medicine, and Dr. Donna Regenstreif. The John A Hartford Foundation conceived a new program to provide safe and effective hospital-level care in the home. A geriatric study team led by Dr. Bruce Lef			vide safe and
How it Wo	rks		developed m	nedical eligibility criteria and the beasurement methodology.	•	•
Safety & Quality		1996-1998	A 17-patient <u>pilot trial №</u> showed that Hospital at Home® was feasible, safe, and cost effective.			asible, safe, and
		2000-2002	three Medica center. Hosp the acute ho were a third developing of both patients treated in the	emonstration and Evaluation Stuare managed care organizations oital at Home met disease-speci spital. The average patient length lower than an inpatient stay. Patilelirium, requiring sedatives, or no and family members were more hospital, and family member stood ousual tasks more quickly.	and one Veterans Af- fic quality standards h of stay was shorter ents also had a lowe eeding chemical rest satisfied with care o	fairs medical at rates similar to , and overall costs or chance of traints. In addition, compared to those
		2002-Present	the country,	•		sites throughout
				erian Health Services, Albuquerq		
				s Affairs Medical Center, Boise, I		
				s Affairs Medical Center, Honolul		
				s Affairs Medical Center, New Or		
				s Affairs Medical Center, Philade		
				s Affairs Medical Center, Portland		
			Veteran	s Affairs Medical Center, Bend, C	oregon	
		2010	home-based enhanced tw	ate partnership tested a modified care is provided by nurses, with ro-way telemedicine-video. The r oup, instead of a hospital.	physician consult via	a biometrically
		2011	care model.	me was formed to develop and on The Hospital at Home team is a me, while continuing to offer and I.	partner and clinical	consultant to
		2015	at Mount Sin	CMS Innovation Center challeng ai, New York is currently testing led payment model for fee-for-se	Hospital at Home to	inform a possible

demonstration.

Hartford Foundation is funding a research evaluation of the study, and supporting development of technical assistance resources in anticipation of a successful

News & Resources

Develop Your Program



Modello assistenziale costituito da un team multiprofessionale specialistico medico (geriatri ed internisti) ed infermieristico responsabile della presa in carico degli ospiti SARS-COV2 positivi - in collaborazione con medici di famiglia e USCA mediante la creazione di unità di Cure Intermedie direttamente all'interno delle RSA, con reparti «bolla» destinati all'accoglienza degli ospiti positivi dotati assistenza infermieristica h24

«HOSPITAL-AT-NURSING HOME»





ORIGINAL ARTICLE



Caring for nursing home residents with COVID-19: a "hospital-at-nursing home" intermediate care intervention

Enrico Benvenuti¹ · Giulia Rivasi² · Matteo Bulgaresi¹ · Riccardo Barucci¹ · Chiara Lorini³ · Daniela Balzi⁴ ·
Antonio Faraone⁵ · Giacomo Fortini¹ · Gabriele Vaccaro³ · Ilaria Del Lungo¹ · Salvatore Gangemi¹ · Sante Giardini¹ ·
Cecilia Piga¹ · Eleonora Barghini¹ · Serena Boni¹ · Giulia Bulli¹ · Paolo Carrai⁵ · Andrea Crociani⁵ · Aldo Lo Forte⁵ ·
Letizia Martella¹ · Simone Pupo¹ · Irene Marozzi² · Giulia Bandini⁶ · Primo Buscemi³ · Claudia Cosma³ ·
Lorenzo Stacchini³ · Lorenzo Baggiani⁵ · Andrea Ungar² · Enrico Mossello² · Guglielmo Bonaccorsi³ ·
Giancarlo Landini⁵

Table 1 GIROT members and roles

Member	Role
Medical specialists • Geriatricians • Internal medicine specialists	Team coordination and direction Clinical management of COVID-19 infection (diagnostic exams, clinical evaluation and therapy) Prevention and management of geriatric syndromes Communication with families End of patients' isolation after infection
Local Health District Nurse	Advice and support to NH nurse management Staff training for COVID-19 on PPE use and cleaning procedures Setting up of residents' and staff testing Advanced nursing care, including management of complicated pressure sores and feeding tubes
Local Health District Direction	Nursing care coordination and direction Staffing management, including supply of health workers in case of staffing shortage Provision of PPE stocks
Local Health District Physiotherapy	Conventional geriatric rehabilitation Respiratory training Coordination of patients' mobilization
Palliative specialists	Early palliative care Provision of palliative medications Communication with families
Public hygiene experts and occupational health professionals	Setup of COVID-19 "bubbles" and dedicated pathways including donning and doffing stations Other environmental interventions for transmission control, including creation of COVID-19 signs and posters Management of NH staff occupational health issues End of patients' isolation after infection

GIROT

Membri e ruoli

- Azienda Sanitaria USL CENTRO
- AOU Careggi
- ACOT area fiorentina

Con il sostegno economico di:

- Fondazione Santa Maria Nuova
- CRF

Table 2 GIROT interventions provided in each nursing home during the outbreak

At the beginning of the outbreak

Environmental interventions to limit transmission: cleaning procedures, room changes and setup of "COVID-19 bubbles" including with donning and doffing stations

Residents' and staff testing to identify all SARS-CoV-2 cases

Use of ID bracelets to favor residents' identification (particularly in presence of external staff)

Comprehensive geriatric assessment of SARS-CoV-2-positive residents and risk stratification according to symptoms severity (Green/Yellow/Red code); medical therapy review and optimization (including COVID-19 protocol-based therapy), blood testing

Direct provision of oxygen and first-line medications (Table 2) within 24 h of outbreak

Supply of caloric nutritional supports including specific diets for dysphagia

Identification of staff shortage and supply of nurses and other healthcare workers from local hospitals as appropriate

Provision of PPE and staff training on appropriate PPE use and other transmission control procedures

During the course of the outbreak

Regular medical assessment according to color coding, including interventions for prevention and management of geriatric syndromes

Activation of palliative comfort-based care services, when deemed appropriate based on comprehensive geriatric assessment

Regular residents' and staff SARS-CoV-2 testing for infection monitoring

Daily clinical report to GPs and regular update to families

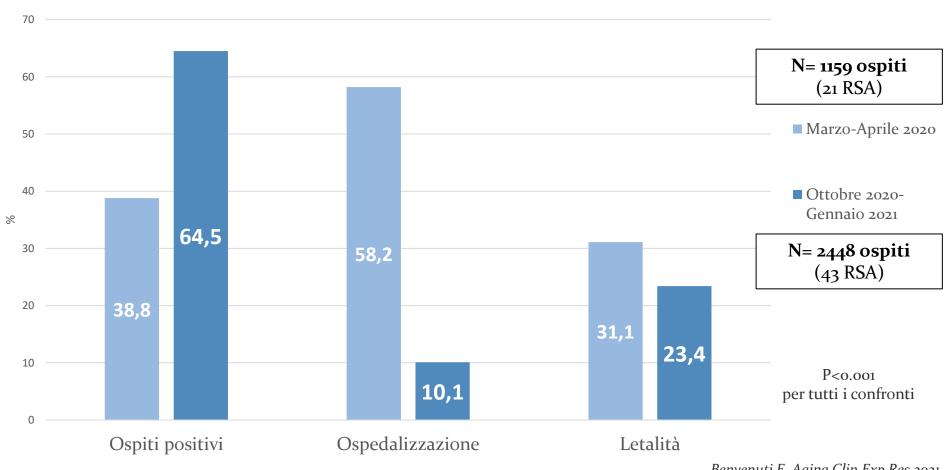
Discontinuation of residents' isolation at the end of the infection, according to a symptom-based approach^a

PPE personal protective equipment

^aThe symptom-based approach [26] allowed patients to be released from isolation also in presence of a positive virus test, provided that they were asymptomatic for at least 21 days



Caring for nursing home residents with COVID-19: a "hospital-at-nursing home" intermediate care intervention





GRUPPO INTERVENTO RAPIDO OSPEDALE TERRITORIO

2020

Nascita del GIROT come risposta all'emergenza del COVID-19 nelle RSA





Aging Clinical and Experimental Research https://doi.org/10.1007/s40520-021-01959-z

ORIGINAL ARTICLE

Caring for nursing home residents with COVID-19: a "hospital-at-nursing home" intermediate care intervention

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Received: 16 June 2021 / Accepted: 9 August 2021 © The Author(s) 2021



Course and Lethality of SARS-CoV2 Epidemic in Nursing Homes after Vaccination in Florence, Italy

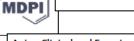
Giulia Rivasi 1,*, Matteo Bulgaresi 2, Enrico Mossello 1, Primo Buscemi 3, Chiara Lorini 3, Daniela Balzi 4, Riccardo Barucci ², Ilaria Del Lungo ², Salvatore Gangemi ², Sante Giardini ², Cecilia Piga ², Eleonora Barghi , Serena Boni ², Giulia Bulli ², Paolo Carrai ⁵, Andrea Crociani ⁵, Antonio Faraone ⁵, Aldo Lo Forte , Letizia Martella ², Simone Pupo ², Giacomo Fortini ², Irene Marozzi ¹, Giulia Bandini ⁶, Claudia Cosma "Lorenzo Stacchini ³, Gabriele Vaccaro ³, Lorenzo Baggiani ˀ, Giancarlo Landini ˀ, Guglielmo Bonaccorsi Andrea Ungar 1, Enrico Benvenuti 2



Received: 1 December 2021 Revised: 2 March 2022 Accepted: 12 March 2022 DOI: 10.1111/jgs.17773 Journal of the American Geriatrics Society BRIEF REPORT

Long-term effects of SARS-CoV-2 vaccination in the nursing home setting

Giulia Rivasi MD¹ D Chiara Bandinelli MD² Matteo Bulgaresi MD² Daniela Balzi BSc³ Francesca Tarantini PhD¹ Silvia Tognelli MD² Lorenzo Baggiani MD⁵ Chiara Lorini PhD⁴ Primo Buscemi MD⁴ Giancarlo Landini MD⁶ Guglielmo Bonaccorsi MD4 Andrea Ungar PhD¹ Enrico Mossello PhD¹ Enrico Benvenuti MD²



Aging Clinical and Experimental Research https://doi.org/10.1007/s40520-023-02415-w

SHORT COMMUNICATION



Impact of SARS-CoV2 infection on mortality and hospitalization in nursing home residents during the "Omicron era"

Matteo Bulgaresi · Giulia Rivasi · Francesca Tarantini · Sofia Espinoza Tofalos · Lorenzo Maria Del Re · Caterina Salucci² · Giada Turrin² · Riccardo Barucci¹ · Chiara Bandinelli¹ · Letizia Fattorini³ · Daniele Borchi³ · Marta Betti³ · Saverio Checchi³ · Lorenzo Baggiani⁴ · Francesca Collini⁵ · Chiara Lorini³ · Guglielmo Bonaccorsi³ · Andrea Ungar² · Enrico Mossello² · Enrico Benvenuti¹

Received: 24 February 2023 / Accepted: 12 April 2023

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Impact of SARS-CoV2 infection on mortality and hospitalization in nursing home residents during the "Omicron era"

Matteo Bulgaresi¹· Giulia Rivasi²⑩ · Francesca Tarantini²· Sofia Espinoza Tofalos²· Lorenzo Maria Del Re²· Caterina Salucci²· Giada Turrin²· Riccardo Barucci¹· Chiara Bandinelli¹· Letizia Fattorini³· Daniele Borchi³· Marta Betti³· Saverio Checchi³· Lorenzo Baggiani⁴· Francesca Collini⁵· Chiara Lorini³· Guglielmo Bonaccorsi³· Andrea Ungar²· Enrico Mossello²· Enrico Benvenuti¹

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Nursing homes of Florence

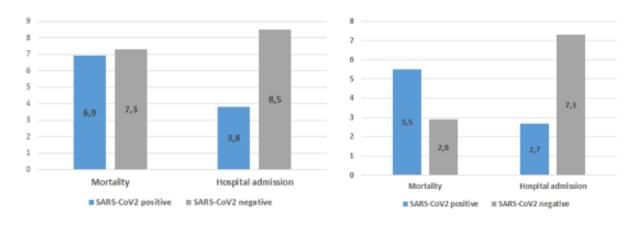


Fig. 2 Mortality and hospitalization rates by SARS-CoV2 status in residents of the nursing homes of Florence (left panel) and in a sample of seven randomly selected nursing homes (right panel) during the Omicron era (December 27th, 2021–March 31st, 2022)

Table 3 Multivariate logistic regression for the composite outcome of death and hospital admission

	OR	95% Confidence Interval	P
Age	1.005	0.975-1.035	0.769
Nr. BADL lost	1.433	1.141-1.801	0.002
SARS-CoV2 status (positive vs negative)	0.790	0.374-1.672	0.538
Chronic obstructive pulmonary disease	4.290	1.975-9.320	< 0.001
Previous SARS-CoV2 infection	0.302	0.112-0.813	0.018

Subsample of 7 Florence nursing homes

GIROT (Gruppo Intervento Rapido Ospedale Territorio)

- •Il Girot è una equipe multiprofessionale (USL TOSCANA CENTRO e AOU Careggi) composta da geriatri, internisti, palliativisti, che prende in carico il paziente insieme agli infermieri di famiglia e comunità. L'attività del GIROT può iniziare già in DEA, dove è presente un geriatra per la presa in carico precoce del paziente.
- •Si rivolge a persone di solito anziane con disabilità motoria e cognitiva, in corso di scompenso clinico, per i quali l'ospedalizzazione può essere addirittura dannosa.
- •Può essere attivato dal: **MMG**, dal medico in dimissione ospedaliera/DEA o dalle cure intermedie/ospedale di comunità, ACOT, Medico emergenza urgenza (118)

OGNI PERCORSO E' CONDIVISO E GESTITO IN COMANAGEMENT CON IL MEDICO DI MEDICINA GENERALE

Diagnostica dedicata



ECG ed Ecografo portatile grazie a donazione <u>Fondazione Santa Maria</u>
Nuova, CR Firenze



Radiologia «a casa»

Diagnostica strumentale portatile

- •Ecografo portatile multifrequenza
- •ECG automatico
- Pulsossimetro
- •Emogasanalizzatore portatile che esegue anche ematocrito, creatinina, elettroliti e lattati
- •Glucometro
- •Dermatoscopio digitale





Emogas-analizzatori portatili

Dati GIROT 2022 – no covid

Pazienti totali (n°)	5884
Età media (anni)	88,05
Min (anni)	43,00
Max (anni)	103,00
Mediana (anni)	89,00
Interventi totali (visite + televisite) - (n°)	5656
Televisite (n°)	2584
Visite (n°)	2942
Degenza media	8

Delirium		
n. 19	5,0 %	Delirium nei
Contenzione_	farmacologica	reparti
n. 10	3,1 %	ospedalieri
Contenzio	one_fisica	20-30%
n. 4	1,3 %	
Difficoltà_	assistenza	
n. 16	18,0 %	
ВР		
n. 56	17,6 %	
Scompens	o_cardiaco	Attivazione cure
n. 95	29,9 %	palliative
Disfagia	10%	
n. 26	8,2 %	1070

Diagnosi di Demenza			
Demenza con disturbo comportamentale	71	22,3 %	
Demenza senza disturbo comportamentale	82	25,8 %	

Setting	Decessi a 30 giorni	tot	%
Geriatria OSMA	98	402	24,4
GIROT	41	244	16,8

Girot in DEA





Modello Acute Frailty Unit Leicester 2014



ACCESSO IN DEA

INTERVENTI IN COGESTIONE CON MEDICO del DEA

- ·Valutazione multidimensionale
- .Radiografia del torace
- .Emogasanalisi: insufficenza respiratoria
- ·Terapia diuretica ed antibiotica per via endovenosa

Prescrizione di:

Ossigeno, liquidi, terapia antibiotica a domicilio Ausili

Rivalutazione del GIROT a 24/48 ore con INFERMIERE DI FAMIGLIA.

- · esecuzione di terapia endovenosa ad orario
- .Programmazione esami ematici di controllo
- ·Attivazione del fisioterapista di comunità
- .Educazione al caregiver

A controlled evaluation of comprehensive geriatric assessment in the emergency department: the 'Emergency Frailty Unit'

Simon Paul Conroy¹, Kharwar Ansari², Mark Williams², Emily Laithwaite³, Ben Teasdale², Jeremey Dawson⁴, Suzanne Mason⁴, Jay Banerjee²

Address correspondence to: S. P. Conroy. Tel: +44 (0) | 16 258 7635; Fax: +44 (0) | 16 258 6737. Email: spc3@le.ac.uk

Abstract

Background: the ageing demographic means that increasing numbers of older people will be attending emergency departments (EDs). Little previous research has focused on the needs of older people in ED and there have been no evaluations of comprehensive geriatric assessment (CGA) embedded within the ED setting.

Methods: a pre-post cohort study of the impact of embedding CGA within a large ED in the East Midlands, UK. The primary outcome was admission avoidance from the ED, with readmissions, length of stay and bed-day use as secondary outcomes.

Results: attendances to ED increased in older people over the study period, whereas the ED conversion rate fell from 69.6 to 61.2% in people aged 85+, and readmission rates in this group fell from 26.0% at 90 days to 19.9%. In-patient bed-day use increased slightly, as did the mean length of stay.

Discussion: it is possible to embed CGA within EDs, which is associated with improvements in operational outcomes.

Age and Ageing 2014; **43:** 109–114 doi: 10.1093/ageing/aft087 Published electronically 23 July 2013

	Usual care	Intervention period
Setting	Emergency decision unit within the emergency department	Unchanged
Integration with main emergency department	Short walk, tannoy system and pathways	Unchanged except for additional frailty pathways
Clinical leads	Emergency physicians	Emergency physicians and geriatricians
Nursing	Emergency medicine	Emergency medicine with some additional training in geriatric syndromes and manual handling
Care coordination	Primary care coordinators with good knowledge of and access to community services	Unchanged
Comprehensive geriatric assessment (medical diagnoses, medication, problem list, mental health, basic and instrumental activities of daily living, social circumstances, environmental issue and spirituality)	Primary care coordinators working with nurses and therapists, supported by emergency physicians	As before with specialist geriatrician input and integrated clerking proforma Additional education and training and teamworking
Access to specialist geriatrician	Via ad hoc phone calls or outpatient referrals	Embedded geriatrician available 8-6pm seven days per week
Access to community services	All community hospital and intermediate care service available	Unchanged but greater promotion and use of community services

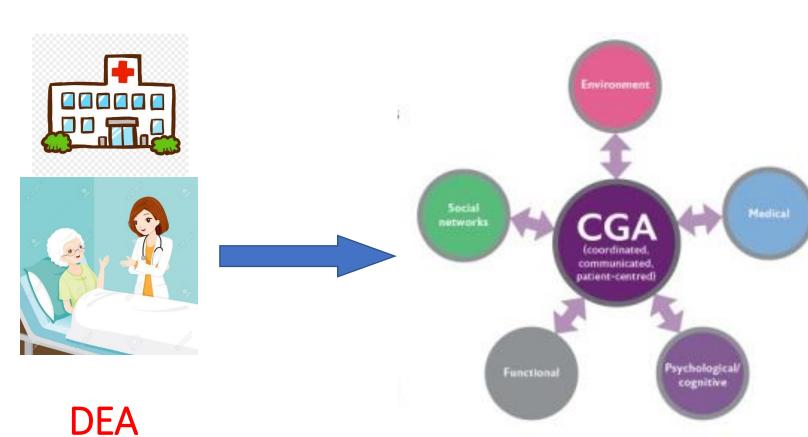
University of Leicester School of Medicine, Room 540, Clinical Sciences Building Leicester Royal Infirmary, Leicester LE2 7LX, UK

²Emergency Medicine, University Hospitals of Leicester, Leicester, Leicestershire, UK

³Geriatric Medicine, University Hospitals of Leicester, Leicester, Leicestershire, UK

⁴ScHARR, University of Sheffield, Sheffield, UK

Girot in DEA





Casa/RSA con GIROT o Cure palliative o attivazione infermieri del territorio



UGA





Cure Intermedie/Hospice

Analisi Dati con Dedalus BI4H 1 Gennaio 2023 – 30 Novembre 2023 DEA OSMA-SMN-SGD



HOME / LA NOSTRA OFFERTA / BI4H

BI4H

Un nuovo paradigma per gli analytics sanitari con il triplice obiettivo di ridurre i costi, migliorare i risulytati e aumentare la qualità dell'assistenza

Estrazione dati utilizzando come filtro PRESTAZIONE «Visita Geriatrica»

Tipologia di Pazienti

Accessi **3.502**

Q Dettaglio

Ricoverati

317

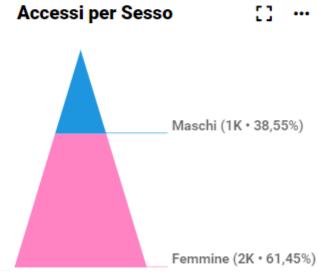
Q Dettaglio

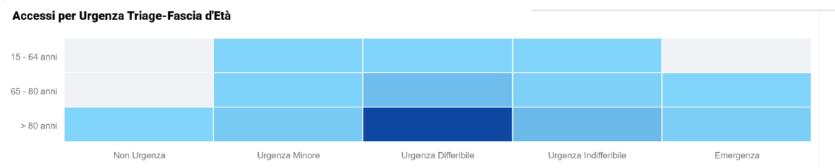
Trasferiti Deceduti
437 23

Q Dettaglio

80 % a domicilio

Primo Codice Urgenza Triage	Numero Accessi	Numero Accessi %
Non Urgenza	4	0,11%
Urgenza Minore	242	6,91%
Urgenza Differibile	2755	78,67%
Urgenza Indifferibile	393	11,22%
Emergenza	108	3,08%





Girot in DEA – anno 2023

	DEA SMN (%)	DEA OSMA (%)	DEA SGD (%)
TOTALI	1068	1273	1161
Maschi	377 (35,30)	527 (41,40)	446 (38,42)
Femmine	691 (64,70)	746 (58,60)	715 (61,58)
Età < 70 anni	24 (2,22)	31 (2,43)	29 (2,49)
Età 70 – 79 anni	100 (9,36)	138 (10,84)	131 (11,28)
Età 80 – 89 anni	454 (42,50)	604 (47,44)	575 (49,52)
Età 90 – 99 anni	478 (44,75)	480 (37,70)	414 (35,65)
Età 100 – 110 anni	12 (1,11)	20 (1,57)	12 (1,03)
DOMICILIO	862 (80,71)	939 (73,76)	912 (78,55)
RICOVERATI	61 (5,70)	165 (12,96)	91 (7,83)
TRASFERITI CDC	129 (12,07)	160 (12,56)	148 (12,74)
DECESSI	4	9	10

Tipologia di Pazienti

Accessi

3.502

Q Dettaglio

Ricoverati

317

Q Dettaglio

Trasferiti Deceduti

437

23

Q Dettaglio

80 % a domicilio

Modalità Invio	Numero Accessi	Numero Accessi %
Autopresentazione	166	4,74%
C.O. 118	3,328	95,03%
Medico di continuità assistenziale	3	0,09%
Medico di medicina generale / Pediatra libera scelta	2	0,06%
Specialista	3	0,09%

Prime 10 diagnosi di presentazione
SCOMPENSO CARDIACO CONGESTIZIO
INSUFFICIENZA RESPIRATORIA ACUTA
DEMENZA CON DELIRIUM
INFEZIONE DELLE VIE URINARIE
POLMONITE IN CORSO DI INFLUENZA
BRONCOPOLMONITE POLMONITE
SINCOPE E PRESINCOPE
SEPSI
OCCLUSIONE / SUBOCCLUSIONE INTESTINALE
TRAUMA CRANICO LIEVE NON COMMOTIVO

Dea Ospedale SGD 1 gennaio - 30 aprile 2022/1 gennaio - 30 aprile 2023

Filtro: «Pazienti >80 Anni» AND «Codice Triage 3»

	Anno 2022 senza GIROT		Anno 2023 con GIROT		
	N° %		N°	%	
Accessi	1774	100	1841	100	
Ricoveri	611	34,4%	437	23,7%	
Trasferimenti	134	7,5	159	8,6	
Deceduti	15	0,8	9	0,48	

Riduzione dei ricoveri del 10%

Miglioramento del filtro di ricovero

TOP 100 TERAPIE PRESCRITTE

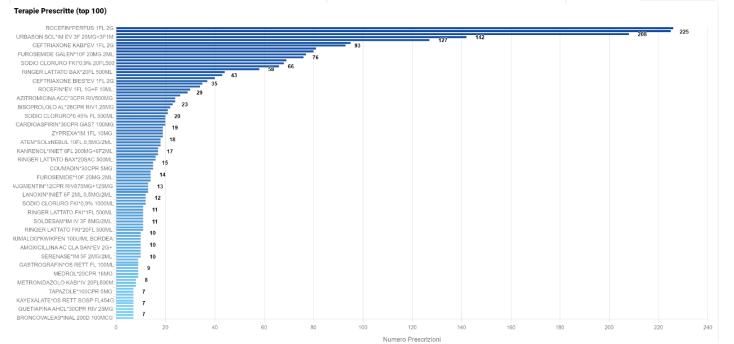
Terapie Somministrate

Somma delle quantità di farmaci somministrati per forma

Farmaco	Unità Posologica	Quantità Totale
Non Valorizzato	Non Valorizzato	28.593
LASIX*INIET 5F 2ML 20MG/2ML	FIALA	7.376
ROCEFIN*PERFUS 1FL 2G	FIALA	5.728
URBASON SOL*IM EV 3F 20MG+3F1M	FIALA	3.003
OSSIGENO*COMPR 100BAR 2LT VI	LT/MIN	16.036
CLEXANE*6SIR 4000UI 0,4ML	FIALA	1.495
URBASON SOL*IM EV 40MG+1F 1ML	FIALA	1.711
SODIO CLORURO EUROS*0,9% 500ML	FLACONE	3.503
FUROSEMIDE GALEN*10F 20MG 2ML	FIALA	2.631
AUGMENTIN*IV 1F 2000MG+200MG	FIALA	2.269
TRITTICO*IM EV 3F 50MG 5ML	FIALA	4.092

Ceftriaxone
Piperacillina/tazobactam
Amoxicillina/Clavulanato
Idratazione
Furosemide

Antipsicotici: Serenase Olanzapina Quetiapina

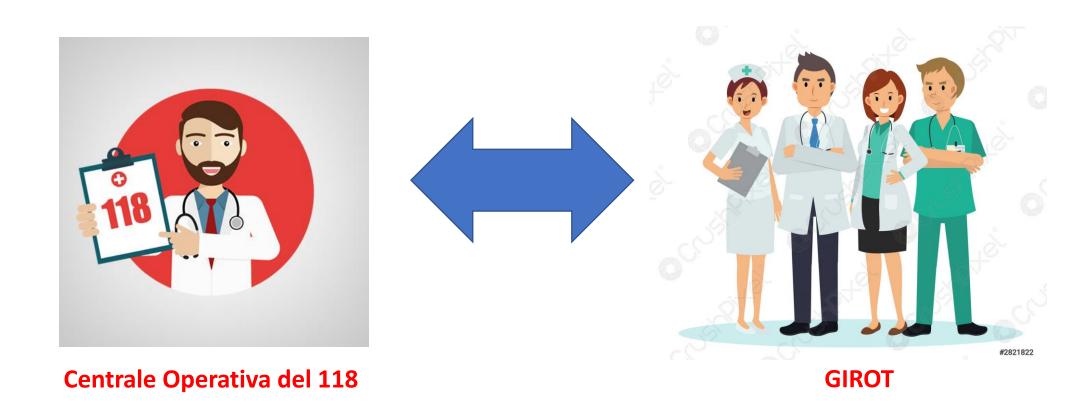


Trasferimento diretto in RSA da reparto/DEA

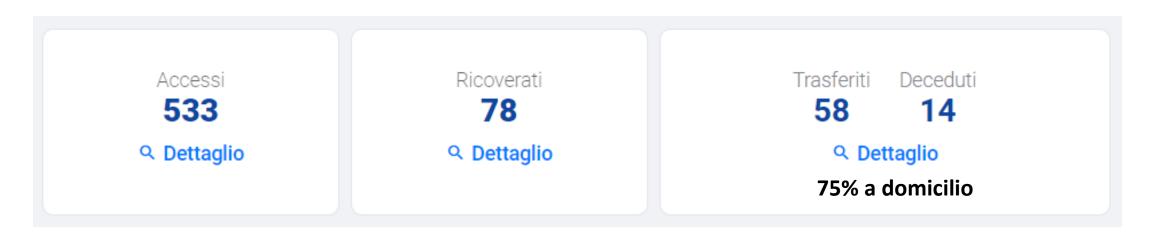


- Valutazione Multidimensionale
- Attivazione dell'ACOT per UVM in urgenza
- Erogazione del Codice Rosso (Comune di Firenze) o attivazione dei Pacchetti FSE con concessione di una RSA 20 giorni
- Verifica disponibilità al Servizio Rette Aziendale
- Trasferimento in brevissimo tempo (24 -48 ore) del paziente

Collaborazione Centrale Operativa 118 e GIROT



AMA/AMU Geriatrico/Internistico anno 2023 Ospedale SGD e OSMA



filtro «visita Geriatrica» e Unità di Chiusura «AMA»

Effectiveness of acute medical units in hospitals: a systematic review

IAN SCOTT¹, LOUELLA VAUGHAN² AND DEREK BELL³

¹Level 5, B core, Medicial Specialties, Princess Alexandra Hospital, Brisbane 4102, Australia, ²Medicine, Chelsea and Westminster NHS Foundation Trust, London, UK, and ³Acute Medicine, Imperial College, London, UK

Abstract

Purpose. To assess the effectiveness of acute medical units (AMUs) in hospitals.

Data sources. (i) Controlled and observational studies in peer-reviewed journals retrieved from PubMed, EPOC, CINAHL and ERIC databases published between January 1990 and July 2008; and (ii) reports from non-peer-reviewed websites combined with Google search.

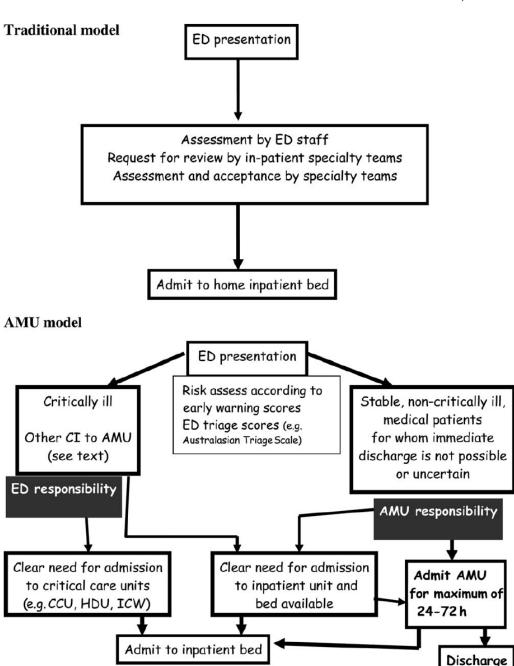
Study selection. Articles reporting effects of the introduction of an AMU on mortality, length of stay, discharge disposition, readmissions, resource use and patient and/or staff satisfaction.

Data extraction. Data on unit operations and outcome measures were extracted by a single author and confirmed by a second author, with disagreement settled by consensus.

Results of data synthesis. Nine peer-reviewed reports of before—after analyses of seven units introduced into the UK and Ireland were analysed. Two studies, one prospective, reported significant reductions in in-patient mortality between 0.6 and 5.6% points following commencement of AMU. Four studies reported significant reductions in the length of stay between 1.5 and 2.5 days. Waiting times for patient transfer from emergency departments to medical beds decreased by 30% in one study. In three studies, the proportion of medical patients discharged directly home from the AMU increased by 8–25% points. Three studies noted no increase in 30-day readmission rates following unit commencement. Two studies described significant improvements in patient and staff satisfaction with care. Eight non-peer-reviewed reports relating to 48 units confirmed reductions in the length of stay.

Conclusion. Limited observational data suggest AMUs reduce in-patient mortality, length of stay and emergency department access block without increasing readmission rates, and improve patient and staff satisfaction.

Keywords: acute medical unit, systematic review



OBI/AMA GERIATRICA a SMN

Ministere della Salate una si nomazio naziona successariazioni successaria					
		INDICATORE	RIFERIMENTO	CALCOLO	SOGLIA
	1	TEMPO DI PERMANENZA IN OBI	24 H DALL'INGRESSO IN PS O IN OBI	N° CASI CON PERMANENZA IN OBI > 24 H / TOTALE ACCESSI IN OBI	<u>< 5</u> %
	2	PAZIENTI DIMESSI	N° PAZIENTI e N° TOT ACCESSI OBI	N° CASI DIMESSI / TOTALE ACCESSI OBI	<u>></u> 90 %
DI UTILIZZO	3	PAZIENTI RICOVERATI	N° PAZIENTI e N° TOT ACCESSI OBI	N° CASI RICOVERATI / TOTALE ACCESSI OBI	<u><</u> 10 %
	4	PATOLOGIE IMPROPRIE	TABELLA PATOLOGIE CON CRITERI di INCLUSIONE IN OBI e N° TOT ACCESSI OBI	N° CASI INAPPROPRIATI / TOTALE ACCESSI OBI	< 5 %
DI PERFORMANCE	5	PAZIENTI CHE RIACCEDONO AL PS < 24H	N° PAZIENTI CHE RIACCEDONO AL PS < 24 H DALLA DIMISSIONE DA OBI E TOTALE DIMESSI OBI	N° CASI CON RIENTRO IN PS < 24 H DALLA DIMISSIONE DA OBI/TOTALE DIMESSI DA OBI	< 5%

	Esiti	Esiti	Esiti	Esiti
Presidio	Numero Dimessi	% Dimessi	Numero Ricoverati	% Ricoverati
[Santa Maria Nuova] - f1- OBI di PS	324	91,01%	32	8,99%
[Santa Maria Nuova] - f2- HDU	40	90,91%	4	9,09%

AMA 1 gennaio -30 novembre 2023

PAZIENTI PRESI IN CARICO totali	16444
Ricoverati	10054(61%)
Dimessi a domicilio	4747(29%)
Altri esiti	1466(9%)

Dettaglio flussi Ottobre- Novembre 2023 AMA

Н	AMA	Ricoverati	Dimissione a domicilio	Trasferimento ad altro istituto	DAY SERV Ott/NOV
PRATO	702	262 (37%)	397 (56%)	74 (6.6%)	29 (4.1%)
EMPOLI	482	362 (75%)	104 (21%)	11 (2.2%)	
PISTOIA	387	129 (33%)	256 (66%)		
SGDD	354	213 (60%)	86 (24.2%)	37 (10%)	

