

La riabilitazione funzionale del paziente con frattura di femore e deterioramento cognitivo: ha un ruolo il genere?

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Outline

- Epidemiologia: che cosa sappiamo?
- Che cosa significa "deterioramento cognitivo"?
- L'influenza del genere sull'outcome
- Quale specificità riabilitativa tra "genere" e "decadimento cognitivo"

Declining trends in the incidence of hip fractures in people aged 65 years or over in years 2000–2011



Sandro Giannini ^{a,*}, Stefania Sella ^a, Maurizio Rossini ^b, Daniela Braghin ^a, Davide Gatti ^b, Maria Teresa Vilei ^a, Annalisa Amabile ^a, Maria Fusaro ^c, Anna Chiara Frigo ^d, Giuseppe Sergi ^e, Roberto Lovato ^f, Martino Nobile ^a, Fabrizio Fabris ^a Chiana and Chiara Frigo ^d, Giuseppe Sergi ^e, Roberto Lovato ^f, Martino Nobile ^a,

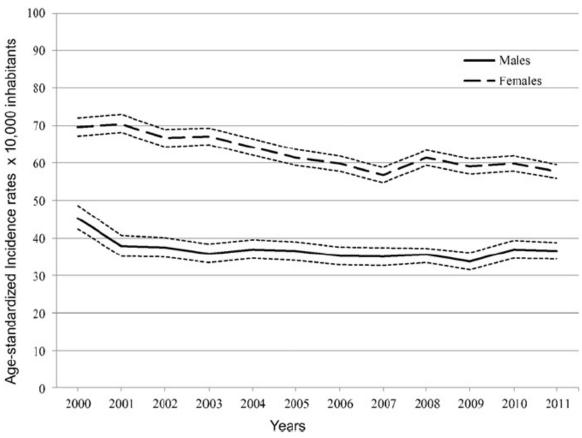


Fig. 2. Age-standardized hip fractures incidence rates in 65 years and over population, by sex, calendar years 2000 to 2011, in the Veneto Region, Italy. Dotted lines indicate 95% CI.

Gender differences in the incidence of and risk factors for hip fracture: A 16-year longitudinal study in a southern European population

Elena Lobo a,b,c,*, Guillermo Marcos a,b,c,d, Javier Santabárbara a,b,c,

	Men				Women				
	Univariate		Multivariate		Univariate		Multivariate		
	HR (95% CI)	p-value	HR (95% CI)	p-value	HR (95% CI)	p-value	HR (95% CI)	p-value	
Age	1.14 (1.10-1.17)	< 0.001	1.13 (1.08-1.17)	<0.001	1.13 (1.11-1.15)	<0.001	1.12 (1.09-1.14)	< 0.001	
Coupled	0.30 (0.17-0.53)	< 0.001	0.51 (0.27-0.94)	0.032	0.31 (0.23-0.41)	< 0.001	0.68 (0.48-0.96)	0.028	
Illiterate	0.75 (0.10-5.47)	0.780	0.35 (0.05-2.54)	0.296	2.20 (1.52-3.19)	< 0.001	1.57 (1.03-2.39)	0.035	
Alcohol	1.11 (0.55-2.19)	0.796	0.86 (0.42-1.78)	0.691	2.02 (1.23-3.32)	0.005	1.52 (0.88-2.64)	0.135	
Tobacco	1.04 (0.57-1.91)	0.894	2.13 (1.11-4.10)	0.024	0.81 (0.36-1.81)	0.602	1.55 (0.68-3.56)	0.301	
Underweigth	2.46 (0.59–10.15)	0.213	1.13 (0.26-4.95)	0.874	2.28 (1.30-3.99)	0.004	1.48 (0.79–2.75)	0.221	
Overweight	0.66 (0.37-1.16)	0.146	0.77 (0.42-1.45)	0.417	0.81 (0.61–1.07)	0.810	0.95 (0.68-1.33)	0.768	
Obesity	0.84 (0.40-1.79)	0.66	0.74 (0.32-1.69)	0.477	0.87 (0.64-1.17)	0.349	0.81 (0.56-1.18)	0.271	
Depression	2.02 (0.63-6.5)	0.240	1.68 (0.51-5.55)	0.396	1.35 (0.97–1.87)	0.075	1.45 (1.01-2.06)	0.042	
Dementia	10.74 (2.51-45.9)	0.001	2.34 (0.48-11.35)	0.293	5.72 (3.32-9.84)	< 0.001	1.64 (0.69-3.90)	0.265	
DADL	5.70 (2.00-12.43)	<0.001	3.15 (1.23-7.07)	0.011	3.42 (2.41-4.05)	₹0.001	1.23 (0.70-1.37)	0.401	
Menopause <45 y					1.34 (0.98-1.82)	0.063	1.27 (0.93-1.73)	0.127	

bADL': Basic Activities of Daily Living. Cox regression models. HR: hazard ratios, CI: confidence interval.

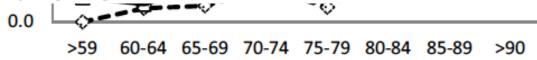


Fig. 1. Hip Fracture Incidence Rate (IR) (100,000 person-year) in Men and Women.

Short- and long-term prognostic factors associated with functional recovery in elderly patients with hip fracture: A systematic review

Berenice Araiza-Nava¹ · Lucia Méndez-Sánchez¹ · Patricia Clark¹ · María Luisa Peralta-Pedrero² · Muhammad Kassim Javaid³ · Mónica Calo⁴ · Brenda María Martínez-Hernández⁵ · Fabiola Guzmán-Jiménez⁶

Table 2 Description of the associated factors to functional recovery after hospital discharge in elderly patients (over 60 years) after a hip fracture

TYPE OF FACTOR ASSOCI	OCIATED FACTOR		TIME		
		**	SHORT TERM (<6 months)	LONG TERM (≽6 months)	
Gender	Female	+		•	
Dementia	Severe	-	•	•	
	Moderate	-	•	•	
Delirium	Post-surgical	М -	•	•	
Rehabilitation participation	> participation	+	•		
Rehabilitation	In-hospital sessions	+		•	

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Review Article

Rehabilitation Interventions for Older Individuals With Cognitive Impairment Post-Hip Fracture: A Systematic Review

Barbara Resnick PhD, CRNP, FAAN, FAANP^{a,*}, Lauren Beaupre PT, PhD^b, Katherine S. McGilton RN, PhD^c, Elizabeth Galik PhD, CRNP, FAANP^a, Wen Liu PhD, RN^d, Mark D. Neuman MD, MSc^e, Ann L. Gruber-Baldini PhD^f, Denise Orwig PhD^f, Jay Magaziner PhD, MSHyg^f

Up to 40% of individuals with a hip fracture have some form of cognitive impairment, which may include dementia, delirium, mild cognitive impairment, or other postoperative cognitive decline



Development of dementia in patients with femoral neck fracture who experience postoperative delirium—A three-year follow-up study

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Three years after their operations, 31.8% were diagnosed with dementia.

TABLE 5 Logistic regression modelling of factors associated with the development of dementia within 3 years after hip repair surgery

Independent Variable	В	Wald Statistic	Р	OR	95% CI
Age	0.060	1.952	0.162	1.062	0.976-1.156
Sex	0.508	0.619	0.432	1.662	0.469-5.891
Diabetes	-1.411	4.347	0.037	0.244	0.065-0.919
Delirium preop	0.624	0.709	0.400	1.867	0.437-7.982
Delirium postop	2.746	9.228	0.002	15.582	2.649-91.640
Hyperactive delirium	0.338	0.305	0.581	1.402	0.423-4.645
Days with delirium	-0.056	1.822	0.177	0.946	0.872-1.025
Urinary tract infection	0.314	0.337	0.562	1.369	0.474-3.949
MNA score	-0.010	0.021	0.885	0.990	0.861-1.138

Table 1. Baseline Characteristics of Older Adults with Dementia and Hip Fractures According to Postfracture Rehabilitation Setting

	No				No Rehabilitation vs CCC	No Rehabilitation vs HCR	No Rehabilitation vs IPR
Characteristic	Rehabilitation, n = 4,494	CCC, n = 2,474	HCR, n = 1,157	IPR, n = 3,075		<i>P</i> -Value	
Age_mean + SD	854 + 67	848 + 64	832 + 68	837 + 63	004	< 001	< 001
Female, n (%)	3,255 (72.4)	1,800 (72.8)	897 (77.5)	2,338 (76.0)	.77	<.001	<.001
Rural community, n (%)	519 (11.6)	362 (11.6)	243 (21.0)	135 (4.4)	<.001	<.001	<.001
Medical comorbidity, mean \pm S							
Charlson Comorbidity Index score	1.3 ± 1.9	1.3 ± 1.8	1.3 ± 1.7	1.4 ± 1.9	.02	.13	.002
Number of major Adjusted Diagnostic Groups	2.7 ± 1.4	2.73 ± 1.5	2.6 ± 1.4	2.8 ± 1.5	.23	.008	.001
Health service use before hip fra	cture, mean ± SD						
Number of outpatient physician visits in previous vear	47.9 ± 33.9	49.9 ± 40.4	46.0 ± 30.6	54.6 ± 33.8	.72	.28	<.001
Number of hospitalizations in previous year	0.5 ± 1.0	0.6 ± 1.0	0.4 ± 0.9	0.5 ± 0.9	.002	.001	.14
Perioperative variables							
Surgical delay, days, mean \pm SD	2.1 ± 9.0	1.86 ± 4.0	1.6 ± 2.5	1.5 ± 2.9	.42	.87	.01
American Society of Anesthes	iologists score, n (%)					
1–2	1,289 (28.7)	666 (26.9)	316 (27.3)	929 (30.2)	.11	.36	.15
3	1,477 (32.9)	776 (31.4)	452 (39.1)	1,123 (36.5)	.20	<.001	.001
4	1,213 (27.0)	790 (31.9)	261 (22.6)	721 (23.5)	<.001	.002	.005
5	31 (0.7)	19 (0.8)	≤5	16 (0.5)	.77	.02	.37
Extracapsular fracture, n (%)	2,201 (49.3)	1,331 (54.2)	489 (42.5)	1,484 (48.5)	<.001	<.001	.51
Hemiarthroplasty, n (%)	1,881 (41.9)	915 (36.9)	518 (44.8)	1,305 (42.4)	<.001	.61	.07
Regional anesthesia, n (%)	2,514 (55.9)	1,420 (57.4)	707 (61.1)	1,725 (56.1)	.24	0002	.89
Hospital type, n (%)							
Rural	297 (6.6)	183 (7.4)	191 (16.5)	47 (1.5)	<.001	<.001	<.001
Nonteaching urban Teaching	3,021 (67.2) 1,176 (26.2)	2,014 (81.4) 277 (11.2)	688 (59.5) 278 (24.0)	2,118 (68.9) 910 (29.6)			

A two-year multicenter point prevalence study of older patients with hip fractures admitted to rehabilitation units in Italy

Valentina Gı Maria Grazia	Table 3 Characteristics of the publication	of reha-	andi ^{3,7,10,11}			
Table 1 Char index days in		Intensive rehabilita- tion	Extensive rehabilitation	p value		
Table 2 Character patients according surgery		n = 241, 39.2%	n = 171, 27.8%		Endoprosthesis $n = 239, 38.9\%$	p value
Complexity m	Sociodemographic variables Gender				79 (%)	
Delirium Dementia	Females Complexity markers	182 (75%)	134 (78%)	0.343	22 (9%) 86 (34%)	0.67 0.608
Malnutrition	Delirium	13 (5%)	23 (13%)	0.004	ļ	
Bladder cathe	Dementia	93 (39%)	78 (45%)	0.099)	
	Malnutrition	62 (26%)	33 (19%)	0.080)	
	Bladder catheter	53 (22%)	43 (25%)	0.272	2	

Association between delirium, adverse clinical events and functional outcomes in older patients admitted to rehabilitation settings after a hip fracture: A multicenter retrospective cohort study

Table 1 Characteristic of 519 older patients according to the presence of delirium and/or adverse clinical events during the rehabilitation stay

	Full sample (n = 519)	No ACE or delirium (n = 223)	Only ACE (n = 219)	Only delirium (n = 19)	ACE and delirium $(n = 58)$	
Age (years)	82.9 ± 9.4	80.70 ± 11.11	84.03 ± 7.67	88.02 ± 5.54	85.85 ± 7.14	< 0.001
Female sex	411 (79)	180 (80.7)	168(76.7)	19(100.0)	44 (75.9)	0.684
Barthel Index (prefracture)	81.63 ± 21.55	86.14 ± 19.79	81.48 ± 22.03	66.68 ± 26.93	69.78 ± 17.67	< 0.001
Barthel Index (admission)	27.84 ± 19.85	33.48 ± 21.22	26.74 ± 18.10	13.89 ± 13.51	14.84 ± 12.28	< 0.001
Barthel Index (discharge)	54.01 ± 26.62	63.19 ± 27.83	52.56 ± 29.24	35.68 ± 21.74	29.32 ± 21.07	< 0.001
Severe Cardiac Impairment	30 (5.8)	3 (1.3)	17 (7.8)	3 (15.8)	7 (12.1)	< 0.001
Severe Respiratory Impairment	19 (3.7)	3 (1.5)	11(5)	1 (5.3)	4 (6.9)	0.093
Severe Hepatic Impairment	4 (0.8)	1 (0.4)	1 (0.5)	0	2 (3.4)	0.105
Severe Renal Impairment	10 (1.9)	2 (0.9)	5 (2.3)	0	3 (5.2)	0.172
Severe Dementia	90 (17.4)	21 (9.4)	26 (11.9)	9 (47.4)	34 (58.6)	< 0.001
Urinary tract infection	136 (26.3)	0	101 (46.4)	0	35 (60.3)	< 0.001
Falls	52 (10.1)	0	33 (15.1)	0	19 (33.3)	< 0.001
Non-infectious ACE	141 (27.3)	0	106 (48.4)	0	35 (60.3)	< 0.001
Malnutrition	153 (29.6)	47 (21.2)	66 (30.3)	11 (57.9)	29 (50.0)	< 0.001

Significant differences between variables were evaluated using one-way analysis of variance (ANOVA).

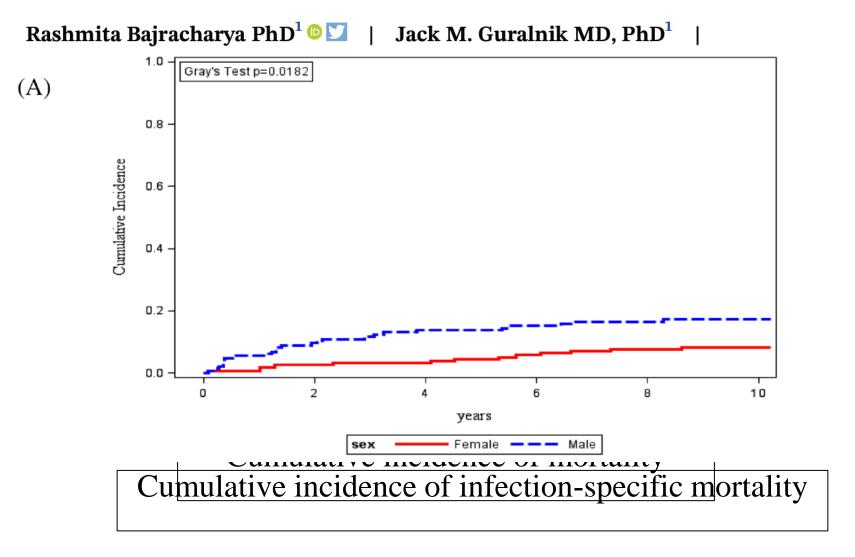
Associazione tra eventi clinici/delirium ed outcome funzionali

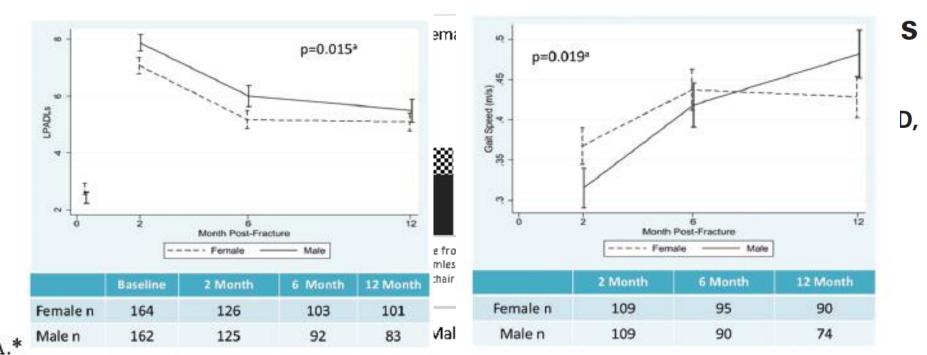
	Model 1		Model 2	
Variables	Mean (95% confidence interval)	P-value	Mean (95% confidence interval) P-value
No ACE or delirium	(Reference)		(Reference)	
Only ACE	-6.7 (-11.6; -1.7)	0.008	-2.6 (-6.0;0.8)	0.130
Only delirium	-13.2 (-25.6; -0.8)	0.038	-3.4 (-11.9; 5.0)	0.426
ACE and delirium	-18.6 (-26.9; -10.3)	< 0.001	-10.4 (-16.1; -4.6)	< 0.001
Age	-0.6 (-0.9: -0.4)	< 0.001	-0.1 (-0.3; -0.1)	0.393
Age Sex	1.6 (-4.2; 7.4)	0.581	3.2 (-0.8; 7.0)	0.114
Malnutrition	-1.1 (-5.6; 3.4)	0.636	0.8 (-2.9; 4.5)	0.664
Severe dementia	-18.7 (-25.5; -11.9)	< 0.001	-0.6 (-5.5; 4.3)	0.803
Delta Bartnel Index	-0.1 (-0.23; 0.02)	0.109	_	_
Barthel Index pre-admission	_	_	0.4 (0.3;0.5)	< 0.001
Barthel Index on admission	_	-	0.8 (0.7;0.9)	< 0.001
			1	

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- Epidemiologia: che cosa sappiamo?
- Che cosa significa "deterioramento cognitivo"?
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Long-term sex differences in all-cause and infection-specific mortality post hip fracture







or daily living activity prior to admission who became newly disabled or died by 12 months, stratified by sex.

7, 1463–1471

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Review Article

Rehabilitation Interventions for Older Individuals With Cognitive Impairment Post-Hip Fracture: A Systematic Review

Barbara Resnick PhD, CRNP, FAAN, FAANP^{a,*}, Lauren Beaupre PT, PhD^b, Katherine S. McGilton RN, PhD^c, Elizabeth Galik PhD, CRNP, FAANP^a, Wen Liu PhD, RN^d, Mark D. Neuman MD, MSc^e, Ann L. Gruber-Baldini PhD^f, Denise Orwig PhD^f, Jay Magaziner PhD, MSHyg^f

Two included studies were randomized controlled trials, one was a single group pre- and post-test, one a descriptive comparison between those with and without cognitive impairment, one a case controlled matched trial, one a nonequivalent groups trial, and one a case report.

Evaluation of patient-centered rehabilitation model targeting older persons with a hip fracture, including those with cognitive impairment

Katherine S McGilton^{1,2*}, Aileen M Davis³, Gary Naglie⁴, Nizar Mahomed³, John Flannery⁵, Susan Jaglal^{1,6}, Cheryl Cott^{1,6} and Steven Stewart⁷

Table 3 Multivariate regression results for each patient outcome

Variable	Coefficient (95% c	onfidence interval)	ļ	o-value
	FIMM gain	Return to home	FIMM gain	Return to home
FIMM admission score	-0.72 (-0.880.55)	-	<0.001	_
Pre-hip fracture OARS	-	0.12 (-0.00 - 0.24)	_	0.05
Age	-0.05 (-0.17 - 0.06)	-0.02 (-0.10 - 0.07)	0.38	0.71
Gender	-0.71 (-2.89 - 1.48)	1.01 (-0.57 - 2.60)	0.53	0.21
Pre-hip fracture living status	-0.50 (-2.37 - 1.36)	1.80 (0.22 – 3.37)	0.73	0.03
Charlson Comorbidity Index	0.07 (-0.48 - 0.62)	-0.08 (-0.32 - 0.48)	0.80	0.70
Length of stay	-0.12 (-0.200.05)	-0.05 (-0.080.02)	<0.001	<0.01
CI at admission	-2.38 (-4.310.46)	-1.52 (-2.870.17)	0.02	0.03
Site	0.55 (-1.21 - 2.32)	0.44 (0.75 – 1.63)	0.54	0.47
Intervention group	0.15 (-1.62 - 1.91)	1.45 (0.23 – 2.67)	0.87	0.02

FIMM – Functional Independence Measure Motor Subscale; CI – cognitive impairment as measured by MMSE; OARS – Older Americans Resources and Services Instrument.

Impact of Dementia on Patterns of Home Care After Inpatient Rehabilitation Discharge for



Table 2 Types and rates of home care services received by older adults with hip fracture within 30 days after discharge from inpatient rehabilitation in Ontario, Canada, stratified by a previous diagnosis of dementia and sex

	Overall(N=17,263)			Men(n=4595)			Women(n=12,668)		
Factors	No Dementia n=14,774	Dementia n=2489		No Dementia n=3947	Dementia n=648	P	No Dementia n=10,827	Dementia n=1841	Р
Any home care services n (%) Visits* (95% CI)	11,668 (79.0) 11.43 (11.19, 11.67)	2165 (87.0) 18.11 (17.22, 19.05)		3034 (76.9) 10.90 (10.45, 11.37)	567 (87.5) 17.65 (15.91, 19.58)	<.001 —	8634 (79.7) 11.62 (11.34, 11.90)	1598 (86.8) 18.27 (17.24, 19.37)	<.001 —
Physiotherapy n (%) Visits* (95% CT)	8305 (56.2) 2.08 (2.04, 2.12)	1388 (55.8) 2.09 (1.98, 2.20)	.677 —	2177 (55.2) 2.03 (1.94, 2.11)	357 (55.1) 2.01 (1.81, 2.23)	.976 —	6128 (56.6) 2.10 (2.05, 2.15)	1031 (56.0) 2.11 (1.99, 2.24)	.633 —
Occupational therapy n (%) Visits* (95% CI) Personal/homemaking	5527 (37.4) 0.76 (0.74, 0.78)	1128 (45.3) 0.94 (0.88, 1.00)	<.001 —	1465 (37.1) 0.75 (0.71, 0.79)	305 (47.1) 0.97 (0.86, 1.09)	<.001 —	4062 (37.5) 0.76 (0.74, 0.79)	823 (44.7) 0.93 (0.86, 1.00)	<.001 —
n (%) Visits* (95% CI)	6858 (46.4) 7.08 (6.83, 7.33)	1646 (66.1) 13.36 (12.27, 14.55)		1576 (39.9) 6.19 (5.74, 6.68)	422 (65.1) 12.42 (10.32, 14.95)	<.001 —	5282 (48.8) 7.40 (7.11, 7.70)	1224 (66.5) 13.69 (12.44, 15.06)	<.001 —
n (%) Visits* (95% CI) Other home care visits†	2758 (18.7) 1.42 (1.33, 1.51)	488 (19.6) 1.59 (1.36, 1.85)	.268 —	924 (23.4) 1.82 (1.64, 2.02)	168 (25.9) 2.11 (1.63, 2.73)	.163 —	1834 (16.9) 1.27 (1.18, 1.38)	320 (17.4) 1.41 (1.17, 1.70)	.64 —
n (%) Visits* (95% CI)	656 (4.4) 0.09 (0.08, 0.10)	178 (7.2) 0.14 (0.11, 0.17)	<.001 —	200 (5.1) 0.11 (0.09, 0.13)	56 (8.6) 0.15 (0.10, 0.22)	<.001	456 (4.2) 0.08 (0.07, 0.09)	122 (6.6) 0.14 (0.11, 0.18)	<.001



Intensive In-Hospital Rehabilitation After Hip Fracture Surgery and Activities of Daily Living in Patients With Dementia: Retrospective Analysis of a Nationwide Inpatient Database

Table 3 Multivariable linear regression analysis for Barthel Index at discharge with multiple imputation (N=43,206)							
	Adjusted						
Variables	Coefficients	(95% Confidence Interval)	P Value				
Interval from surgery to starting rehabilitation (per extra day)	-0.38	(-0.54 to -0.21)	<.001				
Frequency of postoperative rehabilitation (d/ wk)							
≤3.0	Reference						
3.1-4.0	2.62	(0.99-4.25)	.002				
4.1-5.0	5.83	(4.28-7.38)	<.001				
5.1-6.0	7.56	(5.95-9.16)	<.001				
6.1-7.0	9.16	(7.34-10.97)	<.001				
Average daily units of postoperative rehabilitation (min/daily rehabilitation)							
20-39	Reference						
40-59	4.37	(3.69-5.06)	<.001				
≥60	6.60	(5.63-7.57)	<.001				
Male	-3.91	(-4.49 to -3.33)	<.001				
Dementia level							
I-II	Reference						
III-IV	-12.11	(-12.57 to -11.64)	<.001				

Factors associated with and 1-year outcomes of fear of falling in a geriatric post-hip fracture assessment

Roope Jaatinen^{1,2,3} • Tiina Luukkaala^{4,5} • Markus T. Hongisto^{6,7} • Minna A. Kujala^{1,3} • Maria S. Nuotio^{1,3,8,9,10}

Table 1 Distribution of baseline characteristics according to having or not a having fear of falling and association of the characteristics with fear of falling (n=916)

Baseline	Fear of falling								
	Yes $(n=452, 49\%)$	No $(n=464, 51\%)$	p	Adjusted for age and gender		Multiva adjuste			
	n (%)	n (%)		OR	(95% CI)	OR	(95% CI)		
Gender			0.002						
Male	106 (24)	151 (33)		1.00		1.00			
Female	346 (76)	313 (67)		1.52	(1.13-2.04)	1.46	(1.08–1.98)		
Diagnosed cognitive disorder			0.033						
No	352 (78)	333 (72)		1.00		1.00			
Yes	100 (22)	131 (28)		0.66	(0.48-0.89)	0.51	(0.36-0.73)		

The association between patient participation and functional gain following inpatient rehabilitation

Sara Morghen^{1,2} · Alessandro Morandi^{1,2} D · Andrew A. Guccione⁴ · Michela Bozzini¹ · Fabio Guerini^{1,2} · Roberto Gatti⁵ · Francesco Del Santo¹ · Simona Gentile^{1,2} · Marco Trabucchi^{2,3} · Giuseppe Bellelli^{2,6}

Table 2 Predictors of good functional gain at discharge (multivariable logistic regression)

	Odds ratio	95 % Confidence interval	p value
PRPS score (average score during in-hospital rehabilitation stay)	1.51	1.19–1.91	.001
Age, years	0.99	0.96-1.01	.381
Female sex	1.34	0.87-2.01	.185
Walking independence 2 weeks before DRAC admission	2.05	1.36–3.11	.001
GDS	0.98	0.93-1.04	.543
Rehabilitation impairment categories			
Immobility syndrome	0.65	0.37-1.13	.125
Pulmonary	1.91	0.97-3.77	.061
Orthopedics	1.79	1.01-3.19	.046
MMSE score	1.03	0.97-1.09	.297
CIRS severity	0.49	0.20-1.19	.115

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Conclusioni

- L'importanza dell'epidemiologia e dell'impatto del decadimento cognitivo
- Necessità di valutare i determinanti dei verosimili peggiori outcome nel genere maschile
- E' importante il genere o il corretto approccio riabilitativo nella persona con decadimento cognitivo?

Grazie per l'attenzione



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