SAFEHIP EVIDENCE BANK

November 2018



The second plane of the control of t	November 2018	Country	Environment	Publication name	Publisher	Vaar	Publication type	Study size	Reduction in hip fractures	Compliance	Selected quotes	Course
Service Servic		Country	Environment	Publication name	Publisher	Year	Publication type	Study Size	Reduction in hip fractures	Compliance	Selected quotes	Source
procedured an unput. Except the function of second of the transport (second of the transport (se												
Service Manage Service	Study	Norway	Nursing homes	Risk of hip fractures in		2008	1	•	60%			e http://injuryprevention.bmj.com/content/14/5/306
Part Part Note 1				· ·			cal trial	from 18 nursing				
Fig. 1				tected falls in nursing				homes			correctly, to reduce the risk of a	
Total Ceremony Name Communication of Communication Communi				homes in Norway	Pubmed.gov.						hip fracture in falls by nearly	
In concessed to on the concessed to on the concessed to on the concessed to one concessed t											60%.	
Processing the control of the control of processing of the control	Trial	Germany	Nursing homes	Effect on hip fractures	BMJ	2003	Published clini-	942 participants from 42	More than 40%.		In conclusion, we have	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC139934/
with a control of the high protection can the high protection can receive the state of the protection can be healthcare as an enrormed through a control of the healthcare as an enrormed can be received as a state of the healthcare as an enrormed can be received as a state of the healthcare as an enrormed can be received as a state of the healthcare as an enrormed can be received as a state of the healthcare as an enrormed can be received as a state of the healthcare as an enrormed can be received as a state of the healthcare as				of increased use of hip			cal trial	nursing homes			shown that a structured	
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Antice about many Vi Provention and construction Provention and construc											provision of free hip	
Review reducing 19 Terminations Affice about \$1.00 years and reducing 19 Terminations 10 years and reducing 10 years and reduci					4						protectors can increase	
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protectors in ideathy institutionalized residents in Germany. The authors concluded that hip protectors for elderly institutionalized residents were a highly cost-effective preventile. On the whole, the studyes of each protector for elderly institutionalized residents were a highly cost-effective preventile. On the whole, the studyes of each protector for elderly institutionalized residents were a highly cost-effective preventile. On the whole, the studyes because the studyes of each of wald methodology and the authors double and the studyes of each of the subject of each protection. The protectors for facilities, own home. Review including 19 International protectors for facilities, and home in preventing protectors in all protectors for facilities, and home in preventing protectors in all protectors for facilities, and home in preventing and the protector facilities, and the protector in th					Centre for Reviews						1	
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dents in Germany dents in Ger				protectors in elderly							population, hip protectors	
Review including 26 home with the protectors for before his protectors and subtract of the people and the protectors for elderly institutionalized residents were a highly cost effective preventive strategy. On the whole, the study was based on valid methodology and the author's conclusions appear to be appropriate. Review including 19 International Nursing care facilities, own home high fractures in older people in the nak of his fractures in older people in nursing care facilities, a more per 1.000 in own home high fractures in older people in nursing care or residential care estimates which increasing the frequency of falls. Poor acceptance and adherence by older people direct high protectors and design factors that may influence acceptance and adherence the nak of the people in nursing care or residential care in the people in the nak of his fractures in older people in the nak of his fractures in older people in nursing care or residential care estimates which increasing the frequency of falls. Poor acceptance and adherence by older people direct high protectors and design factors that may influence acceptance and adherence by older people direct high protectors and families. Those reproduction of the people in the protectors and families. Choose the protector compliance in comp				institutionalized resi-							would result in annual cost	
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home hip fractures in older people in nursing care or residential care settings, without increasing the frequency of falls Poor acceptance and adherence by older people offered hip protectors is a barrier to their use. Better understanding is needed of the personal and design factors that may influence acceptance and adherence. Review including 26 International studies Barriers and Facilitators to Hip Protector Compliance in Long-Term Care CADTH 2013? Research in brief Protector Compliance in Long-Term Care CADTH 2013? Research in brief Protector Gompliance in Long-Term Care CADTH 2013? Research in brief Protector Gompliance in Long-Term Care CADTH 2013? Protector and families. Choose Information of the protector models with CADTH Compliance in Long-Term Care CADTH Compliance in Long-Term Care CADTH CADTH CADTH CADTH CADTH CADTH CADTH Compliance in Long-Term Care CADTH	Review including 19	International	Nursing care	Hip protectors for	Cochrane Library	2014	Abstract	17.000 participants	11 fewer people per 1.000 in	Poor		
Review including 26 studies Review including 26 studies Review including 26 compliance in Long-Term Care Lo	studies		facilities, own	preventing					nursing care facilities, 2 more per		the risk of hip fractures if made	
Review including 26 studies Review including			home	hip fractures in older					1.000 in own home		available to older people in	
Review including 26 International Barriers and Facilitators to Hip Protector Compliance in Long-Term Care Care Care Care Care Care Care Care											nursing care or residential care	
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Protector Compliance in Long-Term Care Protector Compliance in Long-Term Care	_											
Compliance in Long-Term Care residents and families. Choose from hip protector models with		1									1 1 1	
Long-Term Care from hip protector models with		1										
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1	ilitators of and JAMDA	2015	Review article					http://agingisacontactsport.com/wp-content/uploads/2015/03/Korall-Feldman-Scott-et-al2014
	riers to Hip						to enhance compliance, conse-	
	tector Acceptance						quently, may be through impro-	
	d Adherence in Long						ved health care provider awa-	
term	m Care Facilities:						reness of the efficacy of hip	
A Syr	ystematic Review						protectors, especially for pa-	
							tients who are willing and able	
							to wear them	
Study including 19 Norway Nursing Com	mpliance with BMJ	2004	Observational	1.040 participants			new hip protectors should be	http://injuryprevention.bmj.com/content/injuryprev/10/6/349.full.pdf
	ernal hip protectors		prospective				made more comfortable with-	
	nursing homes in		study.				out reducing the preventive	
Norw	- I						effect so that the compliance	
	•						in the user group will increase.	
Study including 206 Finland Orthopedic Majo	jority of Hip SpringerLink	1999	Abstract.	206 consecutive			a typical hip fracture is the	https://link.springer.com/article/10.1007/s002239900679
	ctures Occur as a	12333	7.050.000.	patients and 100			result of a fall and a	The poly management of the decision of the control
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	sult of a Fall and			control subjects.			subsequent impact on the	
I I				control subjects.				
	pact on the						greater trochanter of the	
	eater Trochanter						proximal femur We suggest	
	the Femur: A						that the severity of the falls	
	spective Controlled						(impacts on the greater	
	Fracture Study						trochanter) could be decreased	
with	h 206 Consecutive						by an external hip protector.	
Patie	ients							
Study Australia Community- A rar	andomised trial of BMJ Journals,	2003	Article	600 elderly women		53%	Hip protectors prevent hip	Full text:
	protector use by Injury Prevention	ı					fractures in community	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1730958/pdf/v009p00138.pdf
women, Aged care frail	il older women						dwelling older women if worn	
	ng in their own						at the time of a fall. 21 hip	
home	I						fractures occurred in the	
							intervention	
							group while 22 occurred in the	
							control group. Three hip	
							fractures occurred while	
							participants were wearing	
Study Canada Simon Fraser The e	e effect of positio- Journal of Bio-	2009	Article	2 his seeds store			hip protectors.	https://www.ncbi.nlm.nih.gov/pubmed/20018287
	·	2009	Article	3 hip protectors			The horsheshoe shaped pro-	nttps://www.ncbi.nim.nin.gov/pubmed/20018287
	g on the biome- mechanics			tested			tectors provided greater re-	
	anical performance						duction in femoral neck force	
	soft shell hip						than the continuous protector,	
prote	otectors						and the 16 mm thick horshe-	
							shoe pad was the only one	
							that shunted peak pressure	
							outside the danger zone.	
Meta-analysis inclu-	protectors decrea- NCBI	2007	Article	1.922 participants.	60%		Using this model, we determi-	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5110322/
ding 4 trials se hi	hip fracture risk in						ned that there is evidence that	
elde	erly nursing home						hip protectors significantly	
	idents: a Bayesian						decrease the risk of hip fracture	
	ta-analysis						in elderly nursing home	
	<i>'</i>						residents.	
	1							
Research study UK Hospitalized Evolu	olution of the hip BMJ	After 2012	Article	10.044			the projected increase in the	http://bmjopen.bmj.com/content/4/4/e004405
	cture population:						number of hip fractures,	7 17 17 17 17 17 17 17 17 17 17 17 17 17
	ne to consider the						combined with more frail,	
	ure? A						elderly and socially dependent	
	I							
	rospective						patients who are likely to	
obse	servational analysis						experience greater rates of	
	1						mortality, postoperative	
,	1						morbidity and longer inpatient	
							stays will drive this figure up	
	l l							
							over the next 20 years. Cost	
							over the next 20 years. Cost estimates for hip fracture	
							estimates for hip fracture	

										_	
Study	UK		Projected incidence of	Scientific Research	2011	Article				Despite a decline in the	http://www.injuryjournal.com/article/S0020-1383(10)00747-3/fulltext
,			proximal femoral							prevalence of PFF among the	
			l'								
			fracture in England: A						1	aging population (2.98% since	
			report from the NHS							2002), we estimate that	
			Hip Fracture							approximately 100,000	
			Anaesthesia Network						1	patients annually will require	
			(HIPFAN)							surgery for fractured neck of	
										femur by 2033 in England, with	
										a 30d mortality of 8.9-9.3%,	
										costing £3.6–5.6 billion	
										(inflation adjusted) in total	
										care.	
Cost-effective analysis	Canada	Nursing homes	Cost-Effectiveness of	The Journal of	2004	Article	1,000 nursing home			In summary, hip protectors	https://www.researchgate.net/publication/8419292 Cost-
Cost effective unarysis	Carrada	Transmig mornes	hip protectors in the	Rheumatology		7 11 11 11 11	residents			appear to be an exciting, cost-	Effectiveness of hip protectors in the prevention of osteoporosis related hip fractures in
				Kileumatology			residents				
			prevention of							effective treatment option to	elderly nursing home residents
			osteoporosis related							prevent hip fractures in elderly	
			hip fractures in elderly							nursing home residents in	
			nursing home							Canada. With the low unit cost	
			residents							of 150 dollars, hip protectors	
										may save money while	
										1	
										preventing fractures, prolonging	
										life, and improving quality of	
										life.	
Study	Norway		Forecasting the	Researchgate	2014	Article				An annual decline in hip	https://www.researchgate.net/publication/263584451 Forecasting the burden of future post
J. 100,					2017	, a cicic			1		
			burden of future post-							fracture rates of 1,1-2,2% until	menopausal_hip_fractures
			menopausal hip							2040 is required to counteract	
			fractures							the effects of a growing elderly	
										population on the future	
										burden of hip fractures in	
										Norway, the USA, France,	
										Germany and the UK.	
Charles and describe	LICA		Timing of the Forestone		2014	Article					https://www.abi.alon.aih.ao/ao/ao/ao/ao/ao/ao/ao/ao/ao/ao/ao/ao/a
Study review	USA		Timing of Hip Fracture		2014	Article			1	Although there is disagreement	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4212427/
			Surgery in the Elderly							among clinicians on whether	
										early surgery confers a survival	
									1	benefit per se, most reports	
										1	
										agree that early surgery	
										improves other outcomes such	
										as length of stay, the incidence	
										of pressure sores, and return to	
										independent living.	
	 				2015						
Study	Sweden and			Osteoporosis Int.	2016	Article				Following from the results of	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5206266/
	DK		trends in Sweden and							the current analyses, we	
			Denmark with age-							expect a reversal of the present	
									1	1 .	
			period-cohort effects							decline in rates, with increasing	
										hip fracture rates in both	
										Denmark and Sweden during	
										the upcoming decade.	
Study	Sweden		The annual number of	Acta Orthon	2014					we predicted that there would	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4062788/
Jeany	Sweden			Or thop.					1	1 -	TREEST THE WATER STATE THE TREE TRE
			hip fractures in							be approximately 30,000 hip	
			Sweden will double							fractures in Sweden in the year	
			from year 2002 to						1	2050. Use of nationwide rates	
			2050						1	for 2002 in the predictive model	
										gave similar results, which	
										correspond to an increase in	
										the number of hip fractures by a	
										factor of 1.9 compared to	
										2002.	
Study	Australia		An economic	Centre for Health	2007	Report	1	<u> </u>	†	In the high risk population,	https://pdfs.semanticscholar.org/4b37/db24be0cd8d9f3d32e8eb04799d02dc961ed.pdf
Study	Australia				2007	Report				I .	nttps://purs.semanticscholar.org/4b37/db24be0cd8d913d32e8e004/99d02dC9b1ed.pdf
			evaluation of falls	Economics						home hazard assessment/	
			prevention strategies	Research and						modification and group-based	
			for older adults living							exercise appeared to be the	
				Faculty of Business,						most cost-effective	
			Australia	University of						interventions.	
				Technology Sydney							
				. cosioby syunicy							

Study	Norway	Hip fracture incidence	Osteoporosis Int	2012	Abstract	1.005 hip fractures.		The incidence of hip fractures	https://www.ncbi.nlm.nih.gov/pubmed/22246602
Study	l l l l l l l l l l l l l l l l l l l		NCBI, Pubmed	2012	7.550.450	21000 mp mactaress		in women in Oslo has decrea-	THE DESTRUCTION OF PARTIES AND ADDRESS OF PAR
		high incidence area of						sed significantly during the last	
		Oslo, Norway.						decade and is now at a lower	
								level than in 1978/1979. This	
								reduction was not evident in	
								men. The incidence of hip	
								fractures in Oslo is, however, still the highest in the world.	
								Still the highest in the world.	
Study	Scotland	Changes in population	Pubmed	2009	Abstract			The number of hip fractures is	https://www.ncbi.nlm.nih.gov/pubmed/19426972?access num=19426972&link type=MED&dop
		demographics and the						predicted to rise by 45% to 75%	<u>t=Abstract</u>
		future incidence of hip					1	(from 6164 to 8829-10756 cases	
		fracture						per annum) requiring an	
								additional 287-474 hospital beds.	
								beus.	
Study	Sweden	Declining incidence trends for hip	Science Direct	2015	Abstract			The age-specific hip fracture incidence has decreased over	http://www.sciencedirect.com/science/article/pii/S8756328215001453
		fractures have not						time. Yet the lifetime risk of a	
		been accompanied						hip fracture has not decreased	
		by improvements in						because life expectancy in the	
		lifetime risk or post-						population has increased in	
		fracture survival - A						parallel. Overall, survival after	
		nationwide study of						hip fracture has not improved.	
		the Swedish							
		population 60 years							
Study		and older. Systematic Review of	AJOT (American	2012	Research article			Thirty throe articles were	https://ajot.aota.org/article.aspx?articleid=1851571
Study		I - ₹	Journal of Occupa-	2012	Research article			Thirty-three articles were analyzed and synthesized.	nttps://ajot.aota.org/article.aspx?articleid=1851571
			tional Therapy)					The strongest results were	
		Prevention Programs	tional merapy)					found for multifactorial	
		on Falls and the						programs that included home	
		Performance of						evaluations and home	
		Community-Dwelling						modifications, physical	
		Older Adults						activity or exercise, education,	
								vision and medication checks,	
								or assistive technology to	
Stydy	Japan	External hip protectors	Osteoporosis Int.	2008	Article	672 ambulatory	79,90%	prevent falls. Risk of hip fracture can be	https://www.ncbi.nlm.nih.gov/pubmed/19137351
	134	are effective for the				elderly women		reduced by hip protectors	
		elderly with higher-				,		among elderly women with fall	
		than-average risk						history and low BMI.	
		factors for hip							
		fractures							
Research study	International	Drug-related falls in	NCBI/PMC	2013	Research article			Several types of drugs are	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4125318/
		older patients:						associated with a significant risk	
			Ther. Adv. Drug Saf.	.]				of falls nine unique drug	
		consequences, and]					classes that were included in	
		possible prevention						the analysis: antihypertensive	
		strategies						agents, diuretics, β blockers,	
								sedatives and hypnotics,	
								neuroleptics and antipsychotics,	
								antidepressants,	
								benzodiazepines, narcotics and nonsteroidal anti-inflammatory	
								drugs.	
Chudu	LICA	I I I I I I I I I I I I I I I I I I I	Colon or D-11	2016	Autiala	722 alderly		The likeliher deferre	https://www.sciencedeilu.com/relea/2045/00/450000420007
Study	USA	Hip fractures: Most elderly unlikely to fully	ScienceDaily	2016	Article	733 elderly		fracture level of function was	https://www.sciencedaily.com/releases/2016/09/160908120207.htm
		recover						less than 50% Of all subjects,	
		1.000001						31% returned to their prior daily	
								functioning; 34% and 41% were	
								respectively able to move and	
								climb stairs as before.	
Articles									
Aititles									

Statements										
Statements									wore hip protectors in nursing homes had a modest reduction in hip fracture. However there was no evidence of this reduction in people who used hip protectors in their own homes. The reason for these findings is uncertain but it is possible that some individuals did not wear the hip protectors all the time or that they were not fitted properly.	
Fact sheet	UK		osteoporosis	The National Osteoporosis Society	2015	Fact Sheet			A recent large review of hip protector studies, suggested that frail older people who	https://nos.org.uk/help-and-support/living-with-osteoporosis/hip-protectors-and-osteoporosis/
Brochures										
									that this may be due in part to a lower fear of falling contributing to greater physical activity and increased strength.	
									contribute to the risk of falling in the elderly. They speculate	
Article	UK		Fear of falling "raises fall risk"	Nursing Times	2010	Article	500 elderly		The researchers found that anxiety about falling may	https://www.nursingtimes.net/news/behind-the-headlines-archive/fear-of-falling-raises-fall-risk/5018690.article
									combined with minimal adverse effects makes them an attractive preventive option.	
									improves falls self-efficacy. The immediate protection offered by hip protectors,	
			hips in care homes						that they felt more "secure" when wearing hip protectors. Wearing hip protectors	
Article	UK	Nursing homes	Preventing broken	JCN	2011	Article	535 residents		repercussions Residents frequently reported	Contact Tytex for access to article.
			increase 32% by 2050	sis Foundation					related fractures due to ageing of Brazilian population, with costly economic and social	
Article	Brazil		In Brazil number of hip fractures expected to	nal Osteoporo-	2012				New IOF report forecasts dramatic rise in osteoporosis-	https://www.iofbonehealth.org/brazil-number-hip-fractures-expected-increase-32-2050
									of the growing cohort of patients with hip fractures ahead.	
			Proportion of These Elderly Patients Die?						management and warrant further research to help guide clinicians on the optimal care	
			Why and How Does Such a Large						death which still harbour room for improvement in	
Article			A Review of Hip Fracture Mortality—	Surgical Science	2014	Article			As highlighted there are a number of common causes of	http://file.scirp.org/Html/6-2300643_46295.htm
									people living in institutions.	
									D and calcium supplementation and hip protectors for elderly	
			consequent injuries in elderly people						to rigorously select the right actions for those people most likely to benefit, such as vitamin	
Article	Finland		Prevention of falls and		2005	Summary			Care must be taken, however,	http://www.thelancet.com/journals/lancet/article/PIIS0140-6736(05)67604-0/fulltext

Statement	Finland	Accident & Trauma Re- search Cen- tre	Hip protectors may not be as ineffective as claimed	вмл	2006	E-letter/ response		We may easily deem the content of the intervention (here hip protector) ineffective, when the truth may be that there was only insufficient effort to implement the intervention Since it is well known that the various designs of hip protectors differ considerably by their basic function and by their user compliance as well, it is not very rational to combine the results of all kind of hip protectors into one meta-analysis	http://www.bmj.com/rapid-response/2011/10/31/hip-protectors-may-not-be-ineffective-claimed
Statement Webinars/Videos	Canada	Simon Fraser University, Canada	Clinical effectiveness of Safehip AirX hip protector		2008			The new Safehip AirX has im- proved material properties and biomechanical performance in laboratory studies	Contact Tytex for further information.
Video	Canada		Aging is a contact		2013	Video			http://agingisacontactsport.com/
Guidelines			sport: Hip protectors	Authority					
	UK		Hip fracture: manage- ment	NICE	2011 (up- dated 2017)	Guideline		Perform surgery on the day of, or the day after, admission Offer patients a physiotherapy assessment and, unless medically or surgically contraindicated, mobilisation on the day after surgery Offer patients mobilisation at least once a day and ensure regular physiotherapy review.	https://www.nice.org.uk/guidance/cg124
Reports			- 1						
Report	International		Facts and Statistics	IOF		Homepage		For the year 2000, there were an estimated 9 million new osteoporotic fractures, of which 1.6 million were at the hip In white women, the lifetime risk of hip fracture is 1 in 6, compared with a 1 in 9 risk of a diagnosis of breast cancer	https://www.iofbonehealth.org/facts-statistics
Report	UK			NHFD (National Hip Fracture Data- base	2017	Report		Hip fracture care still impro- ving, but two in five patients still not receiving best practice care.	https://www.nhfd.co.uk/20/hipfractureR.nsf/docs/2017Report
Report	Sweden		National Registration of Hip Fractures in Sweden	SpringerLink	2009	Report			http://webcache.googleusercontent.com/search?q=cache:AYKDttOsfyUJ: www.springer.com/cda/content/document/cda downloaddocument/97836420 09655-c1.pdf%3FSGWID%3D0-0-45-734927-p173896312+&cd=1&hl=da&ct= clnk≷=dk
Report	Sweden		Rikshöft Årsrapport 2016	Rikshöft	2016	Report		Varje år drabbas knappt 18000 personer i Sverige av en höftfraktur. Medelåldern för dem som drabbas är över 80 år och cirka 75% är kvinnor.	http://rikshoft.se/wp-content/uploads/2013/07/rikshoft_rapport2016.pdf
Fact sheets	LICA		Important facts - b	CDC Contain for		Facts		Falling once devibles	https://www.cdc.gov/homoandrocroationalcafatu/falls/adultfells-basel
Fact sheet	USA		Important facts about falls	CDC - Centers for Disease Control and prevention		Facts		Falling once doubles your chances of falling againIn 2015, the total medical costs for falls totaled more than \$50 billion.10 Medicare and Medicaid shouldered 75% of these costs.	https://www.cdc.gov/homeandrecreationalsafety/falls/adultfalls.html