

EVALUATION OF ALOVA MULTI-SUPPORT MATTRESS TOPPER (1998) - TABULATED SUMMARY UPDATED ON 01/03/2017

DESCRIPTION							
Study Title	Evaluation of efficacy of ALOVA mattress topper in the treatment of People at Risk for Pressure Sores or with Pressure Sores.						
Type of Study	Observational, Non-Interventional, Prospective, Multicentre Study.						
Study Date	1998.						
Evaluation	APHP (Assistance Publique Hôpit	•	•	•	2), Orbe Wing, Dr S. MEAUME		
Departments	Dr Bouffard-Vercelli Functional F Paul Coste Floret Functional Reh	•	, ,		GINGLINGER		
METHOD	radi Coste i loret i dilctional Ren	abilitation centre, tam	alou les baills (54), Di L	. GARLLING and DI TI.	GINGLINGER		
	Hospitalised patients at risk for	oressure sores evaluate	ed according to the Wat	erlow scale and/or w	rith current stage 1 to 4 pressure		
Inclusion criteria	sores.						
Primary objective	Preservation or improvement of	· · ·	ition.				
Secondary objectives	Opinion of the carers: ease of use of the support.						
	Opinion of the patients: willingness to keep the mattress at the end of the study.						
Sample size Randomisation	61 Not applicable						
Analysis of the results	Not applicable. Descriptive analysis: the descriptions are conducted by averages, minimum and maximum values for the quantitative variables and						
	by numbers and percentages for the qualitative variables.						
	Data processing and analysis operated by the sponsor's medical service.						
Abbreviations	ND: Not Documented. M: Male; F: Female						
RESULTS							
Subjects analysed	61 (one trial withdrawal analyse	d)					
Follow-up period	15 days	(0.02 /20.0/	N. A	77 1 (21: 100): 1:	h-i-ht. 1 C7 /1 F0. 1 O2)		
	F/M distribution: 0.64; Average age: 60.03 years (20; 99); Average weight: 64.77 kg (31; 100); Average height: 1.67 m (1.50; 1.93)						
	Average BMI: 23.11 (15.6; 39.1) 23 pathologies, of which 6 primary: paraplegia, tetraplegia, hemiplegia, dementia and depressive disorders, orthopaedic and						
	I			-			
	rheumatic problems, heart disease and chronic peripheral artery disease; 57.4% of the patients have spinal cord injuries 21 Special diets: 4 diabetic, 13 high protein, 1 high calorie, 1 high carbohydrates, 1 hepatic, 1 enteral nutrition						
Characteristics	Daily bed-confinement: 15 hour	rs on average (9; 24).	12 patients < 12 hours	; 34 patients betwee	en 12 and 18 hours; 15 patients		
of the patients	between 18 and 24 hours						
At the time of		ge (0; 14). 31 patients l	etween 0 and 6 hours;	28 patients between	6 and 12 hours; 2 patients > 12		
enrolment	hours						
	_	Initial average Waterlow score: 18.3 (10; 33)					
	Risk level of the entire population: 15 patients at risk, 24 at high risk, 22 at very high risk Classification of patients according to their skin condition: 43 with no pressure sores, 18 with one pressure sore						
	Total number of pressure sores: 18						
	Severity of pressure sores: Stage 1 (2), Stage 2 (10), Stage 3 (4), Stage 4 (2)						
	Location of the pressure sores: 9 Sacrum, 4 Heel, 5 others (2 ischium, 1 trochanter, 1 foot, 1 buttock)						
	26 patients with pain: 6 pain related to the pressure sore, 19 related to the illness, 1 ND						
		Practice	Period/patient/day	Frequency/patien	t/day_		
Professional practices	Cleaning	61 patients		1.6 (1; 5)			
	Turn-overs	18 patients	9.16 min (5; 15)	6 (2; 10)			
	Physiotherapy	55 patients	85.45 min (15; 90)	2.27 (1; 4)			
	Local treatment of the pressure sores: 8 hydrocolloid, 3 Sofra-Tulle, 1 iodoform gauze, 3 enzymatic debridements						
	Carer time in prevention and/or treatment: 35 patients < 1 hour, 22 patients between 1 and 2 hours, 4 patients > 2 hours						
	Daily physiotherapy time: 31 pat	· · · · · · · · · · · · · · · · · · ·					
Primary endpoint		Preventior total popula		on for Patients out pressure sores	Treatment of Patients with pressure sores		
	Number on DO		ac risk with	43	18		
	Efficacy of ALOVA mattress	-	4	2 (98%)	15 (83%)		
	overlay	• •		` ,	, ,		
	Favourable progress	5 11		NA	11		
	Stationary status	46		42	4		
	Unfavourable progress	5 1		0	1		
	Onset of pressure sore			1	1		
	Study withdrawa	1		0	1		
Timary enapoint	1 unfavourable progress						
	Incidence: 1.6% of the total population						
	Result: high risk of pressure sore between D0 and D15; 1 pressure sore on D0 (sacrum, stage 1); 1 pressure sore on D15 (sacrum,						
	stage 2)						
	Risk factors: 63 years old, BMI 19.3, amyotrophic lateral sclerosis, high-protein diet, painless						
	Daily protocol: bed confinement 12 hours, seated between 6 and 12 hours, carer time between 1 and 2 hours, 1 cleaning, without						
	turn-over or physiotherapy 2 onsets of pressure sore						
	2 onsets of pressure sore Incidence: 3.3% of the total population						
	Patient 1:						



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	Result: very high risk of pressure sore between D0 and D15; 1 pressure sore on D0 (foot, stage 4); 2 pressure sores on D15 (foot,			
	stage 4 and sacrum, stage 4)			
	Risk factor: 88 years old, BMI 25.3, multiple sclerosis and arteritis, diabetic diet, intense pain related to the pressure sore,			
	septicaemia			
	Daily protocol: not raised, carer time between 1 and 2 hours, 1 cleaning, 8 turn-overs, 2 physiotherapy sessions			
	Care of the pressure sore: enzymatic debridement on D0; hydrocolloid dressing on D15			
	Patient 2:			
	Result: very high risk of pressure sore on D0 and D15; no pressure sore on D0; 1 pressure sore on D15 (sacrum, stage 2)			
	Risk factor: 68 years old, BMI 26.1, paraplegia, diabetic diet, pain			
Daily protocol: not raised, carer time between 1 and 2 hours, 1 cleaning, 8 turn-overs, 2 physiotherapy sessions				
	Note: turn-over frequency decreased on D15 (patient's refusal)			
	Care of the pressure sore: eosin and antimycotic treatment (sacral mycosis)			
	1 study withdrawal			
	Patient at risk for pressure sore, without pressure sore on D0			
	Risk factors: 94 years old, BMI 25.3, unsteadiness of gait with diffuse osteoarthritis, mild pain (osteoarthritis), no diet			
	Daily protocol: bed confinement 11 hours, seated for 6 hours, carer time < 1 hour, without turn-over, 1 cleaning			
	Personnel's opinion regarding the support: ease of use: yes 90.2% (55 cases)			
Secondary endpoints	Patient's opinion regarding the support: 54 wish to keep the mattress (88.5%), 3 do not state their opinion (4.9%), 4 no (6.6)			
	Patient in pain on D15: 14			
Side effects	No side effect. Pressure sore prevention care was continued simultaneously.			

CONCLUSION

ALOVA mattress overlay appears to provide effective support in the prevention and treatment of pressure sores, in this sample of 61 cases, representative for the population usually admitted to rehabilitation and geriatric medium-term stay centres, irrespective of the level of risk for pressure sores evaluated according to the Waterlow validated scale, with an **efficacy noted in 93% of the total population**, 98% of the population at risk without pressure sores and 83% of the population at risk with pressure sores. The main risk factors retained are age older than 60, deterioration of the general condition and/or an intercurrent pathology, and well as poor treatment compliance. The ease of use, maintenance and nursing care are extensively stressed out by the carers (90.2% satisfaction). The difficulties encountered pertain essentially to obese patients, patients with difficulty in moving, but had only little effect on the efficacy of the support. 88.5% of the patients say they wish to keep the support and 93.5% actually kept it. 3 patients could not express their wish. 4 patients deemed it uncomfortable.

Website: www.winncare.fr



EVALUATION OF ALOVA MULTI-SUPPORT MATTRESS (2004) - TABULATED SUMMARY UPDATED ON 01/03/2017

Evaluation of efficacy of ALOVA mattress in the treatment of People at Risk for Pressure Sores or with Pressure Sores.		
Observational, Non-Interventional, Prospective, Multicentre Study.		
2004.		
200/ Medicine (n=12), 22 EV Code modicine (n=12), 200/ Logo term stay (n=0), 12 EV Custon; (n=F), EV (EU (n=2)		
30% Medicine (n=12), 32.5% Spec. medicine (n=13), 20% Long-term stay (n=8), 12.5% Surgery (n=5), 5% ICU (n=2).		
Hospitalised patients at risk for pressure sores (according to the validated scale and clinical judgement) and/or with current pressure sores.		
Evaluate the efficacy of the Alova mattress: onset or not of pressure sores.		
Evaluate the opinion of the carers: ease of installation, comfort, efficacy, stabilisation, patient's movement, bed remake, Evaluate the opinion of the patients: satisfaction, tolerance and safety.		
N=40		
Not applicable.		
Descriptive analysis: the descriptions are conducted by averages, minimum and maximum values for the quantitative variables and by numbers and percentages for the qualitative variables. Data processing and analysis operated by the sponsor's medical service.		
ND: Not Documented. M: Male; F: Female		
The Hot botamented in male, 1. Temple		
N=40		
Average follow-up period: 25.27 days (1; 50)		
M/F distribution: 0.86; Average age: 71.38 years (28; 95); Average weight: 69.47 kg (36; 90); Average height: 1.63 m (1.48; 1.82) Average BMI: 16.25 (10.3; 25.3)		
Average daily bed confinement: 18.17 hours/day (6; 24)		
Mobility: 35% Yes (n=14), 10% Average (n=4), 50% no (n=20), 5% ND (n=2)		
Conscience: 52.50% Good (n=21), 3% Average (n=14), 10% Poor (n=4), 0% Coma, 2.5% ND (n=1)		
Continence: 35.5% Yes (n=13), 57.50% No (n=23), 10% ND (n=4)		
Nutrition: 20% Good (n=8), 52.50% Average (n=21), 25% Poor (n=10), 2.5% ND (n=1)		
Pain: 37.5% Yes (n=15), 50% No (n=20), 12.50% ND (n=5)		
Pressure sores: 10 of the patients without risk (n=4), 30% at risk (n=12), 50% with pressure sores (n=20), 10% ND (n=4)		
24 established pressure sores: 56% stage 1 (n=14), 20% stage 2 (n=5), 12% stage 3 (n=3), 12% stage 4 (n=3)		
Number of daily turn-overs: 2.8 (0; 10)		
Indication of the support considered by the carer: 67.50% prevention (n=27), 7.50% curative (n=3), 17.50% preventive and curative		
(n=7), 7.50% prevention and comfort (n=3)		
No onset of pressure sores		
Evaluation of the equipment		
Installation: 92.50% easy (n=37), 0% complicated, 5% heavy (n=2), 2.5% ND (n=1)		
Comfort: 65% very good (n=26), 25% Good (n=10), 2.50% Average (n=1), 7.50% ND (n=3)		
Efficacy: 35% very good (n=14), 50% Good (n=20), 5% Average (n=2), 10% ND (n=4)		
Maintenance: 95% Easy (n=38), 2.50% Difficult (n=1), 0% Heavy, 2.50% ND (n=1)		
Patient's movement: 90% Easy (n=36), 5% difficult (n=2), 5% ND (n=2)		
Bed remake: 95% Easy (n=38), 2.50% Difficult (n=1), 2.50% ND (n=1)		
Patient's satisfaction		
Properly installed: 67.50% Yes (n=27), 5% No (n=2), 27.50% ND (n=11)		
Sleeps better: 30% Yes (n=12), 20% No (n=8), 50% ND (n=20)		
Does not slide in bed: 45% Yes (n=18), 15% No (n=6), 40% ND (n=16)		
Patient's tolerance		
Is not in pain: 42.5% Yes (n=17), 17.50% No (n=7), 40% ND (n=16)		
Has a relaxed face: 57.50% Yes (n=23), 42.50% ND (n=17)		
Has a relaxed face: 57.50% Yes (n=23), 42.50% ND (n=17) Has healthy skin: 62.50% Yes (n=25), 15% No (n=6), 22.50% ND (n=9)		
Has healthy skin: 62.50% Yes (n=25), 15% No (n=6), 22.50% ND (n=9) Has normal sweating: 65% Yes (n=26), 2.50% No (n=1), 32.50% ND (n=13) Patient's safety		
Has healthy skin: 62.50% Yes (n=25), 15% No (n=6), 22.50% ND (n=9) Has normal sweating: 65% Yes (n=26), 2.50% No (n=1), 32.50% ND (n=13)		

CONCLUSION

 ${\tt ALOVA\ multi-support\ memory\ foam\ mattress\ proves\ to\ be\ effective\ in\ helping\ prevent\ pressure\ sores.}$

No onset of pressure sores has been noted, on the contrary, the pre-existing lesions have stabilised or progressed favourably.

The carers are content with the equipment and the patient's tolerance is good.