

ASSESSMENT – ALOVA MATTRESS – TABULATED SUMMARY

ITEM	DESCRIPTION
Product studied	ALOVA multi softness mattress
Type of study	observational type
Date of study	2004
Objective of the study	Assess the performance of the Alova multi softness mattress when caring for persons at risk from pressure ulcers or persons suffering from pressure ulcers
METHOD	
Criteria for inclusion	Persons admitted to hospital presenting a risk of pressure ulcers and/or suffering from pressure ulcers
Context and place of study	Multicentre study Departments: 30 % Medicine (n=12), 32.5 % Specialized Medicine (n=13), 20 % Long stay (n=8), 12.5 % Surgery (n=5), 5 % Intensive Care Unit (n=2)
Main judgement criterion	Occurrence of pressure ulcers
Secondary judgement criteria	Material evaluation: setting up, comfort, efficiency, maintenance, mobilization of the patient, remaking the bed Satisfaction, tolerance and safety of the patient
Sample size	N = 40
Randomisation method	Not applicable
Method of analysing the results	Descriptive analysis
RESULTS	
Number of subjects analysed	N = 40
Duration of monitoring	Average = 25.27 days [1 < 50]
Patient characteristics (without group comparability)	<ul style="list-style-type: none"> - M/W 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] - Lasting of the confinement in bed : 18.17 h/day [6 < 24] <p><u>Risk factors</u></p> <ul style="list-style-type: none"> - Mobility: 35 % Yes (n=14), 10% Medium (n=4), 50 % No (n=20), 5 % NA (n=2) - Consciousness: 52.50 % Good (n=21), 35 % Medium (n=14), 10 % Bad (n=4), 0 % Coma (n=0), 2.5 % NA (n=1) - Continence: 32.50 % Yes (n=13), 57.50 % No (n=23), 10 % NA (n=4) - Nutrition: 20 % Good (n=8), 52.50 % Medium (n=21), 25 % Bad (n=10), 2.5 % NA (n=1) - Pain: 37.50 % Yes (n=15), 50 % No (n=20), 12.50 % NA (n=5) <p><u>Prevalences</u></p> <ul style="list-style-type: none"> - Patient without risk of pressure ulcer: 10 % (n=4) - Patient with risk of pressure ulcers: 30 % (n=12) - Patients with pressure ulcers: 50 % (n=20) - Missing data: 10 % (n=4) <p><u>Grades</u> : 56 % grade 1 (n=14), 20 % Grade 2 (n=5), 12% Grade 3 (n=3), 12% Grade 4 (n=3)</p>
Characteristics relating to professional practices	<p><u>Purpose</u></p> <ul style="list-style-type: none"> - Help to prevention: 67.50 % (n=27) - Help to treatment: 7.50 % (n=3) - Help to prevention and help to treatment: 17.50 % (n=7) - Help to prevention and help to comfort: 7.50 % (n=3) <p><u>Number of turnings</u>: 2.8/ days [0 < 10]</p>
Results inherent in the main judgement criterion	No occurrence of pressure ulcers

Results inherent in the secondary judgement criteria	<p>Material evaluation</p> <ul style="list-style-type: none"> - <u>Setting up</u>: 92.50 % Easy (n=37), 0 % Complicated (n=0), 5 % Difficult (n=2), 2.5 % NA (n=1) - <u>Comfort</u>: 65 % Very good (n=26), 25 % Good (n=10), 2.50 % Medium (n=1), 7.50 % NA (n=3) - <u>Efficiency</u>: 35 % Very good (n=14), 50 % Good (n=20), 5 % Medium (n=2), 10 % NA (n=4) - <u>Maintenance</u>: 95 % Easy (n=38), 2.50 % Complicated (n=1), 0 % Difficult (n=0), 2.50 % NA (n=1) - <u>Mobilization of the patient</u>: 90 % Easy (n=36), 5 % Difficult (n=2), 5 % NA (n=2) - <u>Remaking the bed</u>: 95 % Easy (n=38), 2.50 % Difficult (n=1), 2.50 % NA (n=1) <p>Satisfaction of the patient</p> <ul style="list-style-type: none"> - <u>He states well installed</u>: 67.50 % Yes (n=27), 5 % No (n=2), 27.50 % NA (n=11) - <u>He states better sleep</u>: 30 % Yes (n=12), 20 % No (n=8), 50 % NA (n=20) - <u>He states not sliding in bed</u>: 45 % Yes (n=18), 15 % No (n=6), 40 % NA (n=16) <p>Tolerance of the patient</p> <ul style="list-style-type: none"> - <u>He states not suffering</u>: 42.50 % Yes (n=17), 17.50 % No (n=7), 40 % NA (n=16) - <u>He presents a relaxed face</u>: 57.50 % Yes (n=23), 42.50 % NA (n=17) - <u>He presents a healthy skin</u>: 62.50 % Yes (n=25), 15 % No (n=6), 22.50 % NA (n=9) - <u>He presents normal sweating</u>: 65 % Yes (n=26), 2.50 % No (n=1), 32.50 % NA (n=13) <p>Safety of the patient</p> <ul style="list-style-type: none"> - <u>He can move in bed without risk</u>: 72.50 % Yes (n=29), 10 % No (n=4), 17.50 % NA (n=7)
Secondary effects	<p>None</p> <p>Bedsore prevention care was given at the same time</p>

NA : Not Available