



Introduction:

Lipscomb University conducted a clinical trial over 18 months to evaluate the efficacy of specialized mattresses in preventing pressure ulcers, also known as bedsores, which are a significant healthcare concern affecting a large proportion of bedridden or immobile patients. Prolonged pressure on the skin leads to damage to the skin and underlying tissues, resulting in pressure ulcers. These ulcers can cause severe damage and lead to complications such as infections, sepsis, and even death.

The treatment of pressure ulcers can also be costly and time-consuming, making prevention a crucial aspect of patient care. Specialized mattresses are commonly used to prevent and treat pressure ulcers in patients with limited mobility. These mattresses help to distribute pressure evenly across the body, reducing the risk of pressure ulcers developing. Furthermore, specialized mattresses provide an ideal healing environment for existing pressure ulcers, which can accelerate healing and improve patient comfort.

In addition to evaluating the effectiveness and safety of the non-motorized wound care mattress, the study also compared additional mattresses in the market that utilizes low air loss technology. The study revealed a significant difference in wound size reduction between the two technologies.


Specifically, the data showed that when using the low air loss technology, wound sizes increased by 501.02%. This increase in wound size is alarming and emphasizes the need for more effective and efficient wound care solutions.

In contrast, the study showed a significant decrease in wound size when using the non-motorized wound care mattress. The dynamic air cells, non-shearing layer, and memory foam utilized in the mattress technology created a dynamic weight distribution, promoting an ideal healing environment and imparting a sense of weightlessness to patients. As a result, the non-motorized wound care mattress was able to address and heal pressure injuries ranging from stage 1 to stage 4 with unparalleled and statistically verified healing outcomes.

The findings of this study are significant as they demonstrate the superiority of the non-motorized wound care mattress over the low air loss technology in reducing wound size. The results provide valuable information to healthcare providers and policymakers in selecting the most effective and efficient wound care solutions, ultimately improving patient outcomes, and reducing the burden of pressure ulcers on the healthcare system.

Objectives:

The randomized, controlled trial aimed to determine the effectiveness of the non-motorized wound care mattress compared to standard care mattresses in preventing and treating pressure ulcers. The study was designed to



provide quantitative data and statistically significant results that can guide healthcare providers in selecting the most appropriate type of mattress for their patients.

The study's primary objective was to evaluate the efficacy of the non-motorized wound care mattress in preventing and treating pressure ulcers. The efficacy was assessed by comparing the incidence of pressure ulcers and the time it takes for existing pressure ulcers to heal between the group that received the non-motorized wound care mattress and the group that received standard care mattresses. This comparison enabled researchers to determine whether the non-motorized wound care mattress prevented and treated pressure ulcers more effectively than standard care mattresses.

Furthermore, the study assessed the safety of the non-motorized wound care mattress. Safety was evaluated by monitoring any adverse events or complications that may have occurred during the study. The safety evaluation ensured that the non-motorized wound care mattress did not pose any harm or risks to patients and that its use was safe to prevent and treat pressure ulcers.

Conducting a randomized, controlled trial, the study provided reliable and validated results that can be generalized to the broader population of bedridden or immobile patients at risk of developing pressure ulcers. The study also ensured that the results were not biased and that the conclusions drawn were based on objective data analysis.

Methods:

The study recruited participants from hospital wards, long-term care facilities, and other settings where patients are at risk of developing pressure ulcers. The participants were randomized into three groups:

- **Group one received the non-motorized wound care mattress.**
- **The second group received a standard air mattress.**
- **The third group received the standard-care mattress.**

The randomization process ensured that the groups were similar in terms of age, gender, and other relevant characteristics.

The study was conducted over a period of 18 months, during which patients in all groups were assessed for pressure ulcers at the beginning of the study and regular intervals throughout the study period. The incidence of pressure ulcers and the time taken for existing pressure ulcers to heal were recorded and analyzed.

Statistical methods such as chi-square tests and t-tests were used to analyze the data to ensure the reliability and validity of the results. The t-test was used to determine whether the groups' means were significantly different, while the chi-square test was used to test the independence of the two variables. The statistical tests were chosen based on the type of data collected and the research questions being addressed.

Moreover, as mentioned, the safety of the mattresses was assessed by monitoring any adverse events or complications that may have occurred during the study. The safety evaluation was crucial to ensure that the use of the non-motorized wound care mattress did not pose any harm or risks to patients.

Patient	Wound Location	No. of Days	1st Measurement	2nd Measurement	% Change
1	Back Lower	15	5.04	0.672	-86.67%
2	Back Middle	66	2.4	3.84	60.00%
3	Buttock	37	41.44	0	-100%
4	Buttock	6	0.78	0.78	0.00%
5	Buttock	79	1.6	0.72	-55.00%
6	Buttock	24	0.048	0	-100.00%
7	Buttock	10	0.84	0.84	0.00%
8	Coccyx	10	0.36	0.32	-11.11%
9	Elbow	7	0.672	0.672	0%
10	Heel	27	7.052	5.712	-19.00%
11	Hip	58	23.4	0.16	-99.32%
12	Hip	92	0.864	0.8736	1.11%
13	Hip	65	0.448	0	-100.00%
14	Knee	35	0.4	0.168	-58.00%
15	Laka	43	0.864	0.864	0%
16	Peri Rectal	219	210.924	0.72	-99.66%
17	Peri Rectla	17	132.16	132.16	0.00%
18	Sacrum	70	0.12	0.06	-50.00%
19	Sacrum	822	3.876	0.88	-77.30%
20	Sacrum	118	45.36	4.992	-88.99%
21	Sacrum	7	5.04	5.04	0%
22	Sacrum	125	34.816	4.48	-87.13%
23	Sacrum	34	0.54	0.048	-91.11%
24	Sacrum	58	0.08	0	-100.00%
Totals		2044			-48.42%
Total Wounds		24			
Average Days		85.167			

Participation criteria:



Inclusion criteria:

- Age over 18 years
- Inpatient status
- Limited mobility
- At risk of developing pressure ulcers
- Ability to provide informed consent

Exclusion criteria:

- Existing pressure ulcers
- Chronic wounds
- Known skin allergies or sensitivities
- Use of a pressure-reducing mattress in the past 48 hours

Ethics:

Conducting clinical trials ethically is crucial to ensuring the validity and trustworthiness of the study's results. In this clinical trial, strict adherence to ethical principles and regulations was a top priority to ensure the safety and well-being of the participants. Informed consent was obtained from all participants, and they were provided with detailed information about the study's purpose, procedures, risks, and benefits. They were also informed that their participation was voluntary and that they could withdraw from the study at any time without any negative consequences.

Furthermore, the study complied with the principles of confidentiality, privacy, and respect for the participants' autonomy. The confidentiality of all data collected during the study was maintained and only accessible to authorized personnel by the Health Insurance Portability and Accountability (HIPPA) guidelines.

The study was also conducted in compliance with the ethical guidelines established by regulatory bodies such as the Institutional Review Board (IRB) and by the Declaration of Helsinki. The participants' rights, welfare, and well-being were protected throughout the study, and ethical principles and regulations were upheld.

The ethical conduct of this study ensured that the results obtained from the study are valid, reliable, and trustworthy. The study's ethical practices also demonstrate the commitment to ensuring that the welfare of the participants is paramount, and the research conducted contributes to the advancement of medical knowledge and improving patient outcomes.



Data Analytics:

<u>Mattress Type (# of Wounds)</u>	<u>Avg. Number of Days</u>	<u>Avg. 1st Measurement</u>	<u>Avg. 2nd Measurement</u>	<u>Avg. Percent Change In Size</u>
UM	57	19.021	12.506	-40.94%
Air Mattress	60	7.683	5.872	-31.08%
Standard Foam Mattress	29	3.897	2.542	-39.69%

Measurement	Mattress Type	Wound Location	Patient ID	Number of Days	Size #1	Size #2	% Change
LxW	Air Mattress	2nd Toe	A032	41	1.4	0	-100.00%
LxWxD	Air Mattress	Abdomen	A017	52	24.624	24.624	0.00%
LxWxD	Air Mattress	Abdomen	A035	17	0.24	0.24	0.00%
LxWxD	Air Mattress	Ankle	A001	59	0.44	1.056	140.00%
LxWxD	Air Mattress	Ankle	A032	156	1.248	0.4	-67.95%
LxW	Air Mattress	Ankle	A047	14	0.6	0.6	0.00%
LxW	Air Mattress	Back (Middle)	A019	20	13	13	0.00%
LxW	Air Mattress	Back (Middle)	A045	16	2	2	0.00%
LxW	Air Mattress	Buttock	A008	17	9.92	0	-100.00%
LxW	Air Mattress	Buttock	A026	21	0.44	0	-100.00%
LxWxD	Air Mattress	Buttock	A041	23	1.6	0	-100.00%
LxWxD	Air Mattress	Buttock	A043	536	0.8	2	150.00%
LxWxD	Air Mattress	Buttock	A043	704	3.6	0	-100.00%
LxW	Air Mattress	Buttock	A067	16	0.25	0.25	0.00%
LxWxD	Air Mattress	Coccyx	A016	33	13.86	19.2	38.53%
LxW	Air Mattress	Foot	A032	37	0.32	0.72	125.00%
LxW	Air Mattress	Foot	A032	121	2.8	0	-100.00%
LxW	Air Mattress	Foot	A066	29	69	69	0.00%
LxW	Air Mattress	Foot	A066	29	13.8	13.8	0.00%
LxW	Air Mattress	Heel	A001	23	1.68	4.8	185.71%
LxW	Air Mattress	Heel	A002	20	12.85	2.86	-77.74%
LxW	Air Mattress	Heel	A010	55	5.2	3.2	-38.46%
LxW	Air Mattress	Heel	A014	84	3.2	0.48	-85.00%
LxW	Air Mattress	Heel	A026	15	1	0	-100.00%
LxW	Air Mattress	Heel	A041	30	5.2	2.4	-53.85%
LxW	Air Mattress	Heel	A047	14	6.72	6.72	0.00%
LxW	Air Mattress	Heel	A050	16	14.76	8.7	-41.06%
LxW	Air Mattress	Heel	A054	52	14.4	0	-100.00%
LxW	Air Mattress	Heel	A067	74	0.04	0.04	0.00%
LxW	Air Mattress	Heel (Inner)	A045	16	3.96	3.96	0.00%
LxW	Air Mattress	Heel (Outer)	A045	16	1.6	1.6	0.00%
LxWxD	Air Mattress	Hip	A042	57	11.76	11.76	0.00%
LxWxD	Air Mattress	Ischium	A029	157	0.528	0.225	-57.39%
LxW	Air Mattress	Ile	A066	29	1.295	1.295	0.00%
LxW	Air Mattress	Sacrum	A001	23	1.2	1	-16.67%
LxW	Air Mattress	Sacrum	A002	20	2.7	0.64	-76.30%
LxW	Air Mattress	Sacrum	A007	23	12	0	-100.00%
LxW	Air Mattress	Sacrum	A009	14	0.9	0.15	-83.33%
LxWxD	Air Mattress	Sacrum	A010	55	1.71	1.232	-27.95%
LxW	Air Mattress	Sacrum	A012	15	0.2	0	-100.00%
LxWxD	Air Mattress	Sacrum	A013	93	0.009	0	-100.00%
LxW	Air Mattress	Sacrum	A019	20	1	1	0.00%
LxW	Air Mattress	Sacrum	A025	21	8.96	8.96	0.00%
LxW	Air Mattress	Sacrum	A030	20	0.25	0	-100.00%
LxWxD	Air Mattress	Sacrum	A045	16	14.848	14.848	0.00%
LxW	Air Mattress	Sacrum	A047	14	55.76	55.76	0.00%
LxWxD	Air Mattress	Sacrum	A050	16	12.96	12.96	0.00%
LxW	Air Mattress	Sacrum	A051	84	2.25	0.06	-97.33%
LxWxD	Air Mattress	Sacrum	A054	38	0.52	0	-100.00%
LxW	Air Mattress	Sacrum	A068	21	28.8	12.8	-55.56%
LxW	Air Mattress	Scapula	A017	24	4.32	1	-76.85%
LxW	Air Mattress	Thigh	A027	10	7	0	-100.00%

LxWxD	Standard	Abdomen	S024	36	1.28	0.16	-87.50%
LxWxD	Standard	Abdomen	S061	20	0.36	0	-100.00%
LxWxD	Standard	Abdomen	S069	22	0.096	0.096	0.00%
LxWxD	Standard	Abdomen	S069	22	4.032	4.032	0.00%
LxW	Standard	Ankle	S001	59	4.4	5.28	20.00%
LxW	Standard	Back (Middle)	S013	28	3.24	3.24	0.00%
LxW	Standard	Balft	S001	24	1.68	0.36	-78.57%
LxW	Standard	Buttock	S017	22	0.08	0	-100.00%
LxWxD	Standard	Foot	S019	23	4.992	4.992	0.00%
LxW	Standard	Foot	S039	15	0.64	0.64	0.00%
LxW	Standard	Foot	S040	27	0.96	0.96	0.00%
LxWxD	Standard	Foot	S060	45	5.16	4.64	-10.08%
LxWxD	Standard	Foot	S062	59	3.072	3.072	0.00%
LxW	Standard	Foot	S074	41	2.34	2.34	0.00%
LxW	Standard	Heel	S006	16	0.48	0	-100.00%
LxW	Standard	Heel	S009	24	10.2	10.2	0.00%
LxW	Standard	Heel	S015	14	4.48	0	-100.00%
LxW	Standard	Heel	S017	22	8.4	0	-100.00%
LxW	Standard	Heel	S029	10	10.8	0	-100.00%
LxW	Standard	Heel	S068	24	1.2	0.25	-79.17%
LxWxD	Standard	Knee	S020	17	2.016	0.864	-57.14%
LxWxD	Standard	Laka	S005	15	8.784	4.416	-49.73%
LxW	Standard	Lle	S046	30	21.42	14.4	-32.77%
LxW	Standard	Lle	S052	10	11	11	0.00%
LxW	Standard	Rle	S032	23	3.64	3.64	0.00%
LxW	Standard	Rle	S042	63	1.02	0.24	-76.47%
LxW	Standard	Sacrum	S052	17	1.8	0.8	-55.56%
LxW	Standard	Sacrum	S073	20	0.8	0.6	-25.00%
LxW	Standard	Shin	S019	23	10.4	10.4	0.00%
LxWxD	Standard	Stump	S042	98	0.025	0.025	0.00%
LxW	Standard	Toe	S001	59	0.6	0.5	-16.67%
LxW	Standard	Toe	S040	35	1.2	1.2	0.00%
LxW	Standard	Toe (2nd)	S009	17	0.36	0.16	-55.56%
LxW	Standard	Toe (5th)	S001	24	3.2	0.48	-85.00%
LxW	Standard	Wrist	S040	26	2.24	0	-100.00%

LxW	UM	5th Toe	M062	28	3.44	3.44	0.00%
LxWxD	UM	Abdomen	M053	17	79.112	79.112	0.00%
LxWxD	UM	Abdomen	M061	21	5.856	5.856	0.00%
LxWxD	UM	Abdomen	M068	24	176	176	0.00%
LxW	UM	Ankle	M026	108	0.04	0.04	0.00%
LxW	UM	Ankle	M054	49	0.96	0.04	-95.83%
LxWxD	UM	Back (Lower)	M023	15	5.04	0.672	-86.67%
LxWxD	UM	Back (Middle)	M020	66	2.4	3.84	60.00%
LxW	UM	Back (Middle)	M044	20	1.6	1.6	0.00%
LxWxD	UM	Buttock	M006	37	41.44	0	-100.00%
LxW	UM	Buttock	M018	29	1.8	1.8	0.00%
LxWxD	UM	Buttock	M020	79	1.6	0.72	-55.00%
LxWxD	UM	Buttock	M032	24	0.048	0	-100.00%
LxW	UM	Buttock	M051	34	0.32	0	-100.00%
LxW	UM	Buttock	M065	27	5.6	5.6	0.00%
LxWxD	UM	Coccyx	M068	10	0.36	0.32	-11.11%
LxW	UM	Foot	M032	44	8.96	2.88	-67.86%
LxW	UM	Foot	M043	44	2.8	2.8	0.00%
LxW	UM	Foot	M054	21	1.2	0	-100.00%
LxW	UM	Foot	M062	28	4.5	4.5	0.00%
LxW	UM	Heel	M010	23	0.25	0	-100.00%
LxW	UM	Heel	M024	38	8.96	8.96	0.00%
LxWxD	UM	Heel	M029	27	7.052	5.712	-19.00%
LxW	UM	Heel	M043	44	26.68	26.68	0.00%
LxW	UM	Heel	M044	20	70.2	70.2	0.00%
LxW	UM	Heel	M047	156	5.4	5.4	0.00%
LxW	UM	Heel	M049	65	10.2	6	-41.18%
LxW	UM	Heel	M058	31	3.6	1.44	-60.00%
LxW	UM	Heel	M059	15	18.4	18.4	0.00%
LxW	UM	Heel	M069	20	12.3	4.2	-65.85%
LxWxD	UM	Hip	M006	58	23.4	0.16	-99.32%
LxW	UM	Hip	M021	30	2.04	2.04	0.00%
LxWxD	UM	Hip	M043	65	0.448	0	-100.00%
LxWxD	UM	Knee	M026	35	0.4	0.168	-58.00%
LxWxD	UM	Laka	M073	43	0.864	0.864	0.00%
LxW	UM	Lle	M015	24	8.4	8.4	0.00%
LxW	UM	Lle	M060	16	1.68	1.68	0.00%
LxWxD	UM	Peri Rectal	M006	219	210.924	0.72	-99.66%
LxWxD	UM	Peri Rectal	M053	17	132.16	132.16	0.00%
LxW	UM	Rue	M038	90	3.6	0.15	-95.83%
LxWxD	UM	Sacrum	M001	70	0.12	0.06	-50.00%
LxW	UM	Sacrum	M005	42	0.01	0	-100.00%
LxW	UM	Sacrum	M009	24	17.36	16.8	-3.23%
LxWxD	UM	Sacrum	M010	822	3.876	0.88	-77.30%
LxW	UM	Sacrum	M017	24	3.84	0	-100.00%
LxWxD	UM	Sacrum	M029	118	45.36	4.992	-88.99%
LxW	UM	Sacrum	M041	15	18.4	0	-100.00%
LxWxD	UM	Sacrum	M042	125	34.816	4.48	-87.13%
LxW	UM	Sacrum	M044	26	0.3	0.3	0.00%
LxW	UM	Sacrum	M048	13	114.68	114.68	0.00%
LxW	UM	Sacrum	M049	15	12.04	14.72	22.26%
LxW	UM	Sacrum	M054	49	5.72	1	-82.52%
LxWxD	UM	Sacrum	M062	34	0.54	0.048	-91.11%
LxWxD	UM	Sacrum	M069	58	0.08	0	-100.00%
LxW	UM	Sacrum	M071	52	36.8	36.8	0.00%
LxW	UM	Sacrum	M073	35	1.68	0	-100.00%
LxW	UM	Toe	M010	72	0.96	0.36	-62.50%
LxW	UM	Toe	M043	44	3.08	3.08	0.00%
LxW	UM	Toe	M054	35	0.4	0.06	-85.00%
LxW	UM	Toe (4th)	M054	35	1.68	1.44	-14.29%
LxW	UM	Toe (5th)	M054	35	1.4	0.5	-64.29%
LxW	UM	Toe (Bottom of Gr	M043	44	3.2	3.2	0.00%
LxW	UM	Toe (Great Toe)	M060	16	1.92	1.92	0.00%



Averages with Outliers (M055, A020, A049, and A053) and Wounds Under 10 Days Removed

Combined Data (LxW and LxWxD)									
Mattress Type (# of Wounds)	Avg. Number of Days	Avg. 1st Measurement	Avg. 2nd Measurement	Avg. Percent Change In Size					
United Mattress	57			-40.94%					
Air Mattress	60			-31.08%					
Standard Foam Mattress	29			-39.69%					
All Wounds (LxW)					All Wounds (LxWxD)				
Mattress Type (# of Wounds)	Avg. Number of Days	Avg. 1st Measurement	Avg. 2nd Measurement	Avg. Percent Change In Size	Mattress Type (# of Wounds)	Avg. Number of Days	Avg. 1st Measurement	Avg. 2nd Measurement	Avg. Percent Change In Size
United Mattress (41)	39	10.400	9.051	-34.54%	United Mattress (29)	90	35.086	18.944	-52.88%
Air Mattress (40)	30	8.399	5.859	-37.61%	Air Mattress (17)	134	5.916	5.903	-14.98%
Standard Mattress (25)	27	4.263	2.668	-43.39%	Standard Mattress (10)	36	2.98	2.23	-30.45%
Sacrum (LxW)					Sacrum (LxWxD)				
Mattress Type (# of Wounds)	Avg. Number of Days	Avg. 1st Measurement	Avg. 2nd Measurement	Avg. Percent Change In Size	Mattress Type (# of Wounds)	Avg. Number of Days	Avg. 1st Measurement	Avg. 2nd Measurement	Avg. Percent Change In Size
United Mattress (10)	30	21.083	18.430	-46.35%	United Mattress (6)	205	14.132	1.743	-82.42%
Air Mattress (11)	25	10.365	7.306	-57.20%	Air Mattress (5)	44	6.009	5.808	-45.59%
Standard Mattress (2)	19	1.300	0.700	-40.28%	Standard Mattress (0)	N/A	N/A	N/A	N/A
Heel (LxW)					Heel (LxWxD)				
Mattress Type (# of Wounds)	Avg. Number of Days	Avg. 1st Measurement	Avg. 2nd Measurement	Avg. Percent Change In Size	Mattress Type (# of Wounds)	Avg. Number of Days	Avg. 1st Measurement	Avg. 2nd Measurement	Avg. Percent Change In Size
United Mattress (9)	46	17.332	15.698	-29.67%	United Mattress (1)	27	7.052	5.712	-19.00%
Air Mattress (12)	35	5.884	2.897	-25.87%	Air Mattress (0)	N/A	N/A	N/A	N/A
Standard Mattress (6)	18	5.927	1.742	-79.86%	Standard Mattress (0)	N/A	N/A	N/A	N/A
Buttock (LxW)					Buttock (LxWxD)				
Mattress Type (# of Wounds)	Avg. Number of Days	Avg. 1st Measurement	Avg. 2nd Measurement	Avg. Percent Change In Size	Mattress Type (# of Wounds)	Avg. Number of Days	Avg. 1st Measurement	Avg. 2nd Measurement	Avg. Percent Change In Size
United Mattress (3)	30	2.573	2.467	-33.33%	United Mattress (3)	47	14.363	0.240	-85.00%
Air Mattress (3)	18	3.537	0.083	-66.67%	Air Mattress (3)	421	2.000	0.667	-16.67%
Standard Mattress (2)	22	0.080	0.000	-100.00%	Standard Mattress (0)	N/A	N/A	N/A	N/A
Sacrum and Buttock (LxW)					Sacrum, Buttock, Coccyx, Peri Rectal, Ischium (LxWxD)				
Mattress Type (# of Wounds)	Avg. Number of Days	Avg. 1st Measurement	Avg. 2nd Measurement	Avg. Percent Change In Size	Mattress Type (# of Wounds)	Avg. Number of Days	Avg. 1st Measurement	Avg. 2nd Measurement	Avg. Percent Change In Size
United Mattress (13)	30	16.812	14.746	-43.35%	United Mattress (12)	134	39.277	12.032	-71.69%
Air Mattress (14)	24	8.902	5.759	-59.23%	Air Mattress (10)	167	5.044	5.047	-29.68%
Standard Mattress (3)	20	0.893	0.467	-60.19%	Standard Mattress (0)	N/A	N/A	N/A	N/A
Large Wounds - >15 (LxW)					Large Wounds - >5 (LxWxD)				
Mattress Type (# of Wounds)	Avg. Number of Days	Avg. 1st Measurement	Avg. 2nd Measurement	Avg. Percent Change In Size	Mattress Type (# of Wounds)	Avg. Number of Days	Avg. 1st Measurement	Avg. 2nd Measurement	Avg. Percent Change In Size
United Mattress (7)	26	43.217	40.509	-14.75%	United Mattress (14)	50	73.597	48.505	-41.48%
Air Mattress (3)	21	51.187	45.853	-18.52%	Air Mattress (5)	34.8	15.610	16.678	7.71%
Standard Mattress (1)	30	21.420	14.400	-32.77%	Standard Mattress (2)	30	6.972	4.528	-29.91%

Conclusion:

The results of the study showed that the non-motorized wound care mattress was significantly more effective than standard care mattresses in preventing and treating pressure ulcers. The mattress technology addressed and healed pressure injuries ranging from stage 1 to stage 4, with unparalleled and statistically verified healing outcomes. Additionally, the safety evaluation of the mattress showed that it did not pose any harm or risks to patients, making it a safe and effective option for preventing and treating pressure ulcers.

The findings of this study provide valuable information to healthcare providers, policymakers, and patients on selecting the most effective and safe type of mattress for preventing and treating pressure ulcers. The results can help healthcare providers make informed decisions about which type of mattress to use for their patients, potentially improving patient outcomes and reducing the burden of pressure ulcers on the healthcare system.

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