

INVACARE®
microAIR® MA55
THERAPEUTIC SUPPORT SURFACE



THERAPEUTIC PROGRESSION WITH THE microAIR SUPPORT SURFACE PRODUCT LINE

Invacare® microAIR® MA55 - Low Acuity Patient
Prevention and Treatment Stage I - II



Invacare® microAIR® MA65 Mattress - Moderate Acuity Patient
Prevention and Treatment Stage I - IV



Invacare® microAIR® MA85 Mattress - High Acuity Patient
Treatment Stage III - IV
Complex and Multiple Wounds, Flaps and Grafts



Invacare® microAIR® MA95Z Mattress - Extreme Acuity Patient
Treatment Stage III - IV
Complex and Multiple Wounds, Flaps and Grafts, with Pulmonary Compromise

Pressure ulcers are a significant, common and costly medical problem associated with the care of patients in the home, hospice or long-term care environments. Patients with pressure ulcers have decreased quality of life and increased morbidity and mortality rates¹. When pressure ulcers deteriorate or fail to heal, the professional should consider replacing the existing support surface with one that will provide pressure redistribution and microclimate control (moisture and heat). The therapeutic progression offered by the Invacare microAIR product line and presented here are suggestions to better assist in choosing the appropriate support surface to help promote comfort and improve outcomes for patients at risk of or who have pressure ulcers.

1. Berlowitz DR, Brandeis GH, Anderson J et al. Effect of pressure ulcers on the survival of long-term care residents. J Gerontol A Biol Sci Med Sci 1997;52A: 106-110

Who are the Appropriate Patients for the MA55 Mattress?

For lower acuity patients who would benefit from pressure redistribution and increased blood circulation through alternating pressure therapy. The MA55 Mattress is appropriate for the prevention and treatment of superficial and partial thickness, stage I-II pressure ulcers. Appropriate for patients up to 350 lb.

Benefits of the MA55 Mattress

Value-based therapeutic support surface for cost conscious facilities that provides adjustable comfort control, four alternating pressure modes (using 16 air cells) and on-demand low air loss.



	Invacare microAIR MA55 Mattress
Power Unit	
Compressor uses less energy but blowers provide higher air output	10 LPM Compressor with 35 minute inflation time
Alternating Pressure	
Redistributes pressure by alternately inflating/deflating air bladders to aid in the prevention and treatment of Pressure Ulcers	Yes (5, 10, 15, 20 minute options)
Low Air Loss (LAL)	
When activated, air is sent inside the mattress to keep the mattress environment cooler for the patient, as well as help with moisture management	Yes - On demand - Air is pushed between the baffles; will remain inflated during power loss
Lateral Rotation	
For the prevention and treatment of pulmonary or other medical complications due to immobility	No
Mattress Depth	
Comfort and less patient awareness of the alternating pressure process	8" mattress
Weight Capacity	
	350 lb.

Evaluation of Pressure Reducing Support Surfaces for the Treatment and Prevention of Pressure Ulcers and Promoting Comfort¹

Background

Wound prevention and treatment are major challenges for health care providers in all clinical environments. Patients cared for in skilled nursing facilities (SNF) are often diagnosed with multiple, chronic conditions and may be at an increased risk for the development of pressure ulcers. Dynamic, pressure reducing support surfaces can play a key role in both the prevention and treatment of pressure related wounds.

Methods

Observational evaluation of the random use of dynamic therapeutic support surfaces (TSS) in a 228 bed SNF among a population of patients determined to be at risk for the development of, or diagnosed with stage I-IV pressure ulcers. 36 patients met the inclusion criteria; however four were excluded due to readmission to an acute care facility. Of the remaining 32 patients, 11 (34%) were male and 21 (66%) female. Age range: 62-102 years. Diagnoses were quite diverse and frequently overlapping. Diagnoses included, but were not limited to: cardiovascular disease, CHF, COPD, post CVA, diabetes, anemia, hip fracture, DJD, dementia and incontinence. 11 patients (34%) were diagnosed with pressure ulcers; eight patients with stage I-II ulcers and three patients with stage III-IV ulcers. The remaining 21 patients were considered high risk for pressure ulcers but had no skin breakdown. All patients were placed on a dynamic TSS system (Invacare® microAIR® series low air loss systems) and monitored for a period up to six months.

Results

No patients considered to be “high risk” for pressure ulcers developed a wound. Of the 11 patients diagnosed with a pressure ulcer that were placed on an Invacare TSS device, none experienced any progression/worsening of their wound. All eight (100%) of the patients diagnosed with stage I-II ulcers experienced complete wound closure/healing, with no evidence of recurrence. Of the three patients diagnosed with stage III-IV ulcers at the onset of use of the TSS device, one experienced healing to a point considered acceptable for discharge, while the two remaining patients continued to be treated for stage III-IV ulcers. Other relevant findings included: 30 (94%) patients had no documented pain or discomfort and 29 (91%) of the patients experienced no weight loss while using the TSS system.

Conclusion

Although this observational evaluation is limited in size and scope, there is clear evidence of effective pressure ulcer prevention in a population of SNF patients determined to be at risk for pressure related complications. Additionally, the use of the Invacare TSS systems appeared to promote healing of stage I-IV pressure ulcers while concurrently supporting comfort and pain reduction.

1. Polly B Amato. “Evaluation of Pressure Reducing Support Surfaces for the Treatment and Prevention of Pressure Ulcers and Promoting Comfort.” Summary of Observational Study and White Paper, 2009

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