

Envella Air Fluidized Therapy

Better Clinical Outcomes,
Superior Financial Results



Pressure injuries are a top expenditure for healthcare facilities with estimates of **total overall costs to treat an advanced wound to be over \$210 per day.**³ With such a large financial burden, utilization of the right surface technology is an important strategy to help minimize the cost of caring for a pressure injury.

The WOCN guidelines recommend use of Air Fluidized Therapy (AFT) for patients with pressure injuries, limited turning surfaces, and significant moisture and mobility issues. AFT's differentiated technology delivers better performance against all other surface types and is proven to provide superior clinical and financial outcomes.

A retrospective study of 664 nursing home patients found that AFT healed advanced pressure injuries 4.4x faster than other surface types, including low air loss.^{*1} This decrease in healing time could potentially lead to over a 70% reduction in cost over the course of healing.^{1,2,3,4}

4.4x  **70%**
faster healing^{*1} **reduction in total costs**^{1,2,3,4}

*Compared to standard treatment surfaces



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The Air Fluidized Therapy Difference

Air fluidized therapy uses differentiated technology to create a superior wound healing environment—helping you prevent and treat advanced wounds.



AIR FLUIDIZED THERAPY

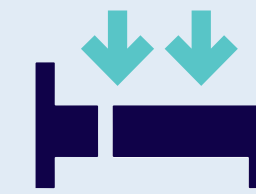
pushes air flow through a bed of millions of tiny beads. It creates a unique fluid-like environment that results in a sensation similar to floating on water—maximizing immersion and envelopment, minimizing shear and pressure, and controlling the skin’s microclimate.⁴

POWERED AIR SURFACES

are made of conventional air bladders connected together. These connected air bladders do not achieve the same level of immersion and envelopment or microclimate management as AFT’s fluid-like environment.⁵

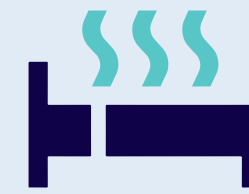
Proven Performance

Based on test methods developed by the NPIAP Support Surface Standards Initiative, the Envella bed performs better than other powered air surfaces like the Dolphin FIS mattress.⁴



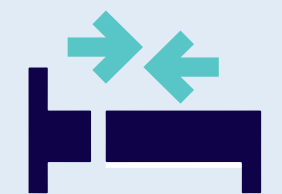
45%

BETTER PRESSURE RE-DISTRIBUTION^{4*}



58X

GREATER EVAPORATIVE CAPACITY^{4*}



93%

BETTER SHEAR STRESS PERFORMANCE^{4*}

NPUAP S3i standardized test guidelines provide objective means to evaluate and compare support surface characteristics.
*Based on mechanical performance only.

The **Envella** bed’s overall clinical value provides the best quality of care from onset of treatment, helping decrease healing time, which can help reduce the overall cost to treat pressure injuries, when compared to other surface therapies such as low air loss.

		Envella AFT	Group 2 Surfaces**
AFT can heal wounds faster...	Stage 3 or 4 Pressure Injury Healing Rate ¹	3.1cm ² /week	0.7cm ² /week
And, for the same size wound...	Pressure Injury Size in Area ²	49cm ²	49cm ²
AFT can drastically reduce healing time...	Days to Heal (pressure injury size/healing rate) ²	110.65	490
	Estimated Cost to Treat (wound dressings, nursing labor, etc.) ³	\$210.54/day	\$210.54/day
And, after factoring in all the costs of treating advanced wounds...	Total Cost to Treat (cost to treat x days to heal)	\$23,295.23	\$103,164.60
	Surface Rental Cost ⁴	\$100/day	\$28/day
	Total Cost of Rental Surface (cost of rental x days to heal)	\$11,064.52	\$13,720.00
The Envella bed can save 70%* in the treatment of advanced pressure injuries.	Total Cost of Healing (total cost to treat + total rental cost)	\$34,359.75	\$116,884.60

*\$116,884.60-\$34,359.75/\$116,884= 70.6%

**CMS definition: Including powered air flotation beds, powered pressure reducing air mattresses, and nonpowered advanced pressure reducing mattresses

Superior Clinical and Financial Outcomes

Air fluidized therapy accelerates wound healing, reduces complications, and improves patient outcomes and comfort for a range of patient acuities, like flaps/grafts and Stage 3-4 pressure injuries resulting in more cost-effective care.

For Stage 3-4 Wounds

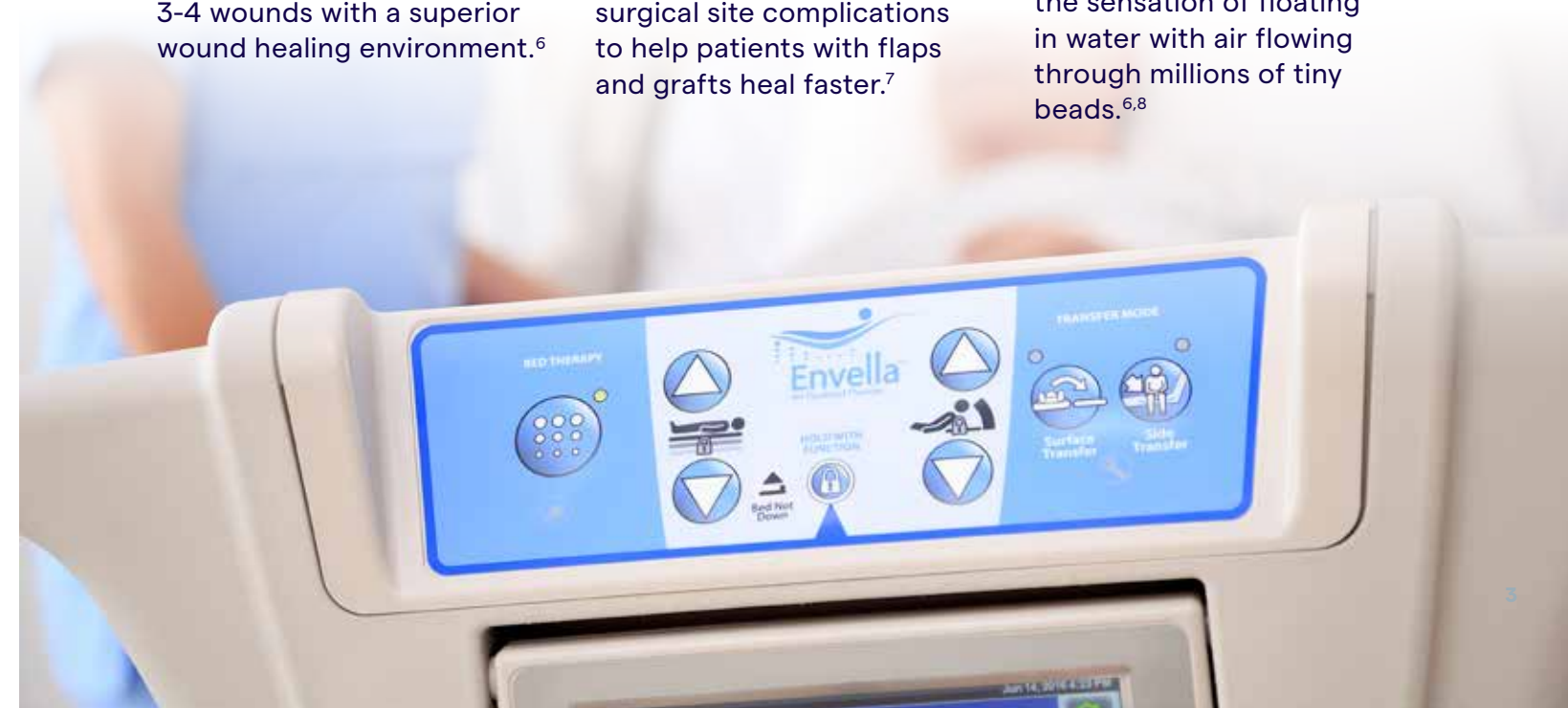
Prevent and treat stage 3-4 wounds with a superior wound healing environment.⁶

For Flaps and Grafts

Protect against post-op surgical site complications to help patients with flaps and grafts heal faster.⁷

For Burns and Pain

Comfort patients with the sensation of floating in water with air flowing through millions of tiny beads.^{6,8}



Better Healing With Elevated Care

Elevate your standard of care today. We can help. Get started at 1-800-638-2546 or visit rental.hillrom.com.

References

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- ² Cuddigan Janet E, Ayello Elizabeth A. Treating Severe Pressure Ulcers in the Home Setting: Faster Healing and Lower Cost with Air Fluidized Therapy (AFT). Remington Report, 2004.
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- ⁴ Hillrom internal data on file.
- ⁵ VanGilder C, Lachenbruch C. Air-Fluidized Therapy: Physical Properties and Clinical Uses. *Annals Plastic Surgery*. 2010;65:364-370.
- ⁶ Arnold M, Yanez C, Yanez B. Wound Healing in the Long-Term Acute Care Setting Using an Air Fluidized Therapy/Continuous Low-Pressure Therapeutic Bed. *J Wound Ostomy Continence Nurs*. 2020;47(3):284-290.
- ⁷ Mendoza R, Lorusso G, Ferrer D, et al. A prospective, randomized controlled trial evaluating the effectiveness of the fluid immersion simulation system vs. an air-fluidized bed system in the acute postoperative management of pressure ulcers: A midpoint study analysis. *International Wound Journal*. 2019;16:989-999.
- ⁸ Nickl S, Fochtman-Frana, A, Nedomankys, J, et al. Air-fluidized therapy in the treatment of severe burns: A retrospective study from a burn intensive care unit in Austria. *Journal of the Int Society for Burn Injuries*. 2019;46:136-142.

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