

# Countdown to Healing

## 3 Ingredients Work Better Than 1 To Support Wound Healing

### HMB

- Enhances protein production and protects protein from break-down,<sup>1,2</sup> thus helping to build lean body mass to promote healing<sup>3</sup>

### ARGININE

- Regulates wound healing and supports tissue repair through collagen synthesis and deposition<sup>5</sup>

### GLUTAMINE

- Helps stimulate collagen and protein synthesis<sup>8,9</sup>

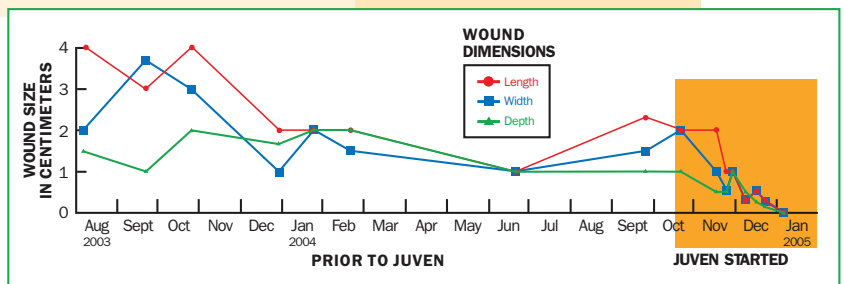
### Just two packets of Juven per day help support healing

- Available in great-tasting Orange and Grape flavors
- Mixes easily in 8-10 oz of water or juice
- 1-2 g of sugar per serving
- Only ½ carb exchange per serving



### 1 More Reason to Choose JUVEN® Case Study: Improved Outcome After Just 10 Weeks

Patient Background	14 Months of Treatment Prior to JUVEN	Outcomes After 10 Weeks with JUVEN Added
<ul style="list-style-type: none"> <li>84-year-old female</li> <li>Diabetes mellitus, Alzheimer's with psychosis</li> <li>Stage IV wound, right gluteal fold</li> </ul>	<ul style="list-style-type: none"> <li>Routine wound care</li> <li>Nutrition                             <ul style="list-style-type: none"> <li>Oral supplements</li> <li>Protein powder</li> <li>Vitamin C</li> <li>Zinc</li> <li>Multivitamin supplements</li> </ul> </li> <li>Other                             <ul style="list-style-type: none"> <li>Specialty mattress</li> <li>Foley catheter</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Wound closed after just 10 weeks on JUVEN – two packets per day</li> <li>Patient ambulatory</li> <li>Specialty mattress discontinued</li> <li>Foley catheter discontinued</li> </ul>



Improving Wound Outcomes. Recommend 2 Packets of JUVEN Per Day.



Use under medical supervision.



# Improving Wound Outcomes

## Patient History

The patient is an 84-year-old female with diabetes and Alzheimer's disease (with psychosis) who resided in a skilled nursing facility (SNF). In mid-2003, she developed multiple pressure ulcers, including the most severe—a Stage IV wound—on her right gluteal fold. This case study follows the progress of the Stage IV wound.

[www.juven.com](http://www.juven.com)  
1-877-GO-JUVEN

## References

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## Initial Treatment

The patient's initial course of treatment, in addition to routine wound care and a specialty mattress, included high-calorie, high-protein liquid medical nutritionals, a protein powder supplement, vitamin C, zinc, and multivitamins. Due to the severity of her condition, she was bedridden, and a Foley catheter was placed. The patient was receiving an oral diet and was consuming 50% to 75% of her meals.

In addition, the patient's initial course of treatment also included several trips to the wound care clinic for debridement and various prescription changes. Despite these efforts, the Stage IV wound did not heal, and she experienced an overall decline in status. For these reasons, hospice care was initiated on January 1, 2004, and she was provided only with comfort measures.

While under hospice care for about 7 months, the patient was stabilized. Hospice was then discontinued on August 1, 2004, and the patient was readmitted to the SNF. However, even after wound care treatments were resumed (including lab measurements), the Stage IV wound remained.

## JUVEN® Initiated

On October 15, 2004—14 months after the patient's wound was first documented—JUVEN® was initiated. Two servings of JUVEN® per day were given in addition to the ongoing wound and nutrition care

regimens: routine wound care, a specialty mattress, a protein powder supplement, vitamin C, zinc, and multivitamins. Since her dietary intake was still only 50% to 75% of meals, high-calorie, high-protein liquid medical nutritionals continued to be offered. The Foley catheter remained in place.

## Outcomes

By January 4, 2005—10 weeks after JUVEN® was initiated—the Stage IV wound was completely closed, and the patient was ambulatory. At this time, her specialty mattress was discontinued, and since she was able to get out of bed, her Foley catheter was removed.

## Summary

Nutritional intervention that increases collagen and protein synthesis, supports immune function, and rebuilds lean body mass (LBM) is a fundamental part of promoting wound healing. The patented blend of 3 key ingredients in JUVEN®—HMB ( $\beta$ -hydroxy- $\beta$ -methylbutyrate), arginine, and glutamine—provide a combined effect to help build LBM and help promote wound healing.

Patients who may benefit from JUVEN® are those with:

- Slow-healing wounds<sup>7</sup>—those typically not healed in 30 days<sup>8</sup>
- Involuntary weight loss (IWL)<sup>9,10</sup>
- Deficient protein stores commonly seen in patients with IWL<sup>11,12</sup>

## Availability

Longs Drugs



H-E-B

Or order online at [www.juven.com](http://www.juven.com) or call 1-877-465-8836

	Flavor	List #	Case	List #	Carton
0.85-oz (24-g) packets	Orange		57935		58012
30 packets/carton	Grape		57936		58011
6 cartons/case	Unflavored		54000		56094
180 packets/case					

