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Countdown to Healing

3 Ingredients Work Better Than 1 to Support Wound Healing

HMB

- Builds lean body mass¹
- Decreases muscle breakdown²
- Increases protein synthesis³

Arginine

- Promotes wound healing^{4,5}
- Supports collagen/protein synthesis⁵
- Enhances immune function^{5,6}

Glutamine

- Stimulates collagen synthesis^{7,8}
- Supports immunity⁹
- Supports gut integrity¹⁰

2 Packets a Day Offer a Patented Blend of HMB, Arginine, and Glutamine

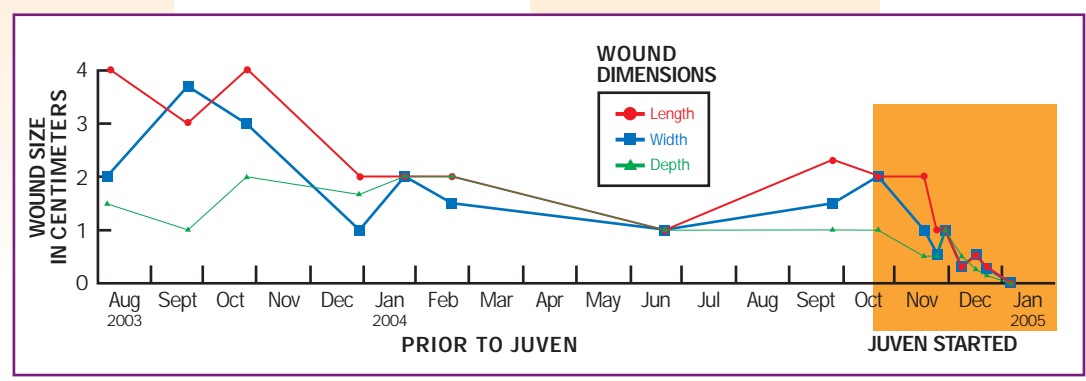
- Can be administered orally or as a modular tube feeding
- Dissolves easily in water or juice
- Great tasting orange and grape flavors



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"> • 84-year-old female • Diabetes mellitus, Alzheimer's with psychosis • Stage IV wound, right gluteal fold 	<ul style="list-style-type: none"> • Routine wound care • Nutrition <ul style="list-style-type: none"> Oral supplements Protein powder Vitamin C Zinc Multivitamin supplements • Other <ul style="list-style-type: none"> Specialty mattress Foley catheter 	<ul style="list-style-type: none"> • Wound closed after just 10 weeks on JUVEN — two packets per day • Patient ambulatory • Specialty mattress discontinued • Foley catheter discontinued

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



Rebuilding Muscles. Rebuilding Lives.™





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
1-877-GO-JUVEN

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Improving Wound Outcomes

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® Treatment

On October 15, 2004—14 months after the patient's wound was first documented—treatment with 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 (β -hydroxy- β -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 wounds¹¹—those typically not healed in 30 days¹²
- Involuntary weight loss (IWL)^{13,14}
- Deficient protein stores commonly seen in patients with IWL^{15,16}

Institutions – Available in two sizes:

30-packet carton (15 day supply):

Orange #58012 Grape #58011

180-packet case (six 30-packet cartons):

Orange #57935 Grape #57936

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