

Foot Ulcer

Juven[®] case study

Overview

Charles, a 62-year-old male, had a 20-year history of diabetes mellitus when he developed a diabetic foot ulcer with osteomyelitis.

In January, Charles sought medical attention after a crack on the bottom of his foot developed into a lesion.

- Tissue around the lesion was inflamed and necrotic
- Four weeks later, his wound-care team administered a debridement treatment
- Ulcer worsened and Charles developed osteomyelitis
- Charles was treated with IV antibiotics for the next 9 months



August—Before Juven therapy

Wound-care team decided that the ulcer required a second debridement. After the procedure, wound measured 6.35 cm (L) x 5.08 cm (W) and 2.54 cm (H).

- Physician directed Charles to clean the wound, change the dressing daily, and take an oral antibiotic (levofloxacin)
- In spite of the debridement, good home care, and adequate nutrition, the wound continued to worsen
- Consulting physician recommended below-the-knee amputation and wound-care team recommended hyperbaric oxygen therapy



October—After 2 weeks of Juven therapy

Faced with potential amputation and hyperbaric oxygen therapy, Charles's doctor suggested that he add 2 packets of Juven to his daily diet.

- Charles mixed 1 packet of Juven with 8–10 oz of water, twice a day
- After 2 weeks, Charles noticed his wound beginning to heal
- Charles continued to take Juven every morning and night for 6 weeks



December—After 14 weeks of Juven therapy

Wound had reached remodeling phase.

- Charles returned to the wound-care center for a follow-up visit
- Ulcer surface had diminished to 3.81 cm (L) x 1.27 cm (W)



After 2.5 months of Juven therapy, new tissue had covered the wound leading to closure.*

*Juven has been clinically shown to support wound healing in as little as 2 weeks in healthy elderly
Use under medical supervision and as part of a complete, balanced diet.



Therapeutic Nutrition Intervention is Fundamental to Promote Wound Healing

Poor nutrition is an independent predictor for pressure ulcers¹

- Undernourished patients are 2X more likely to develop pressure ulcers²
- Poor nutrition contributes to 61% of pressure ulcers³

Nonhealing wounds create serious health issues

- Up to 80% of patients with pressure ulcers have constant pain⁴
- Poor healing may lead to infectious complications⁵
- The most common complications of pressure ulcers include mortality, osteomyelitis, and sepsis⁶

Nonhealing wounds have economic implications

- Pre-existing malnutrition/weight loss increases the odds of developing a pressure ulcer 3.8 times, which can impact readmission rates⁷
- Median monetary recoveries for patients with pressure ulcers caused by poor nutrition are 2X higher than those caused by poor pressure management alone³
- Prompt wound healing reduces wound care costs⁸

Think JUVEN®: Targeted nutritional synergy for optimal wound healing⁹

- Only JUVEN offers a unique blend of key ingredients including arginine to help promote wound healing,^{9,10} build lean body mass (LBM),^{11,12,13} and support immune function¹⁰
- JUVEN was shown to significantly enhance collagen production by 67% in as little as 2 weeks (P<0.03)⁹

HMB (β-hydroxy-β-methylbutyrate)	Arginine	Glutamine	Hydrolyzed Collagen Protein	Micronutrients
• Decreases muscle breakdown¹⁴ • Supports protein synthesis¹⁴ • Stabilizes muscle cell membrane¹⁵	• Supports blood flow^{16,17} • Improves nitrogen balance¹⁸	• Stimulates fibroblastic collagen production^{19,20} • Supports the immune system²¹	• Stimulates internal collagen production increasing the rate of wound healing^{22,23}	• Contains Zinc, Vitamin C, Vitamin E and Vitamin B12 which are important in the wound healing process²⁴

Where to find Juven

- Available through most home medical equipment (HME) companies
- Online at www.abbottstore.com or 
- In store at your local pharmacy  

Ordering information



Flavor	List # Case	List # Carton
Flavored- 0.85 oz per packet	6 cartons/case 180 packets/case	30 packets/carton
Unflavored- 0.68 oz per packet		
Orange	66674	66693
Fruit Punch	66680	66694
Unflavored	66686	66695

Support wound healing with the power of Juven*

*Has arginine, hydrolyzed collagen, glutamine, antioxidants (Vitamin C & E), Vitamin B12 and Zinc to support wound healing

References: 1. Bates-Jensen BM: *Ann Intern Med* 2001;135:744-751. 2. Thomas DR: *Cleve Clin J Med* 2001;68:704-722. 3. Voss AC et al: *J Am Geriatr Soc* 2005;53:1587-1592. 4. Quirino J et al: *Wounds* 2003;15:381-389. 5. Sharp-Pucci M: *Special Report: Pressure-Reducing Support Surfaces in the Prevention and Treatment of Pressure Ulcers: Group 1 Technologies*. March 1998. Available at www.tricare.osd.mil/ocmo/techdocs/Pressure-1.doc. Accessed September 27, 2006. 6. Thomas DR: *J Am Med Dir Assoc* 2006;7:46-59. 7. Fry DE et al: *Arch Surg* 2010; 145: 148-151. 8. Kerstein MD et al: *Dis Manage Health Outcomes* 2001;9:651-663. 9. Williams JZ et al: *Ann Surg* 2002;236:369-375. 10. Kirk SJ et al: *Surgery* 1993;114:155-160. 11. May PE et al: *Am J Surg* 2002;183:471-479. 12. Clark et al: *J of Parenteral and Enteral Nutr.* 2000;24:133-9. 13. Smith HJ et al: *Cancer Res* 2005;65:277-283. 14. Wilson et al: *Nutr Metab.* 2008;5:1. 15. Nissen SLAN: *J Nutr Biochem.* 1997;2008:300-311. 16. Stechmiller JK et al: *Nutr Clin Pract* 2005;20:5261. 17. Preli RB, et al: *Antherosclerosis* 2002; 162:1-15. 18. Pan M et al: *J Nutr* 2004;134:2826S-2829S. 19. Bellon G et al: *Biocem Biophys Acta* 1995; 1268:311-323. 20. Karna E, et al: *Comp Biochem Physiol B Biochem Mol Biol* 2001;130:23-32. 21. Andrews FJ and Griffiths RD: *British J Nutr* 2002; 87(Suppl. 1):S3-S8. 22. Lee SK, et al: *Adv Skin Wound Care.* 2006;19(2):92-96. 23. Sugihara F, et al: *Jpn Pharmacol Ther.* 2015;43:1323-28. 24. Molnar JA, *Nutrition and Wound Healing*, CRC Press, 2007:121.

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