



Juven®: Rebuild. Recover. Heal.

Case Study: Recovery from Toe Amputation

Mr. L, a 68 year-old man with renal failure due to complications of long-term diabetes mellitus, was hospitalized because one month after his toe was amputated, the area showed no sign of recovery.

Mrs. L reported anxiously, "My husband's left second toe was hurt accidentally in October of 2008. It started as just a small scratch, but failed to heal even after 2 months of my dedicated care (Figure 1). At last, it became gangrenous, and was amputated on January 21, 2009."

Mrs. L was especially concerned because of a similar experience with poor wound healing in 2006. At that time, Mr. L had an ingrown toenail that led to a small wound on his left big toe. It did not heal despite fastidious care. In fact, the wound worsened progressively. Finally, there was no choice but to carry out a partial amputation. Mrs. L recalled, "It took 10 months for the surgical site to heal, and it was a really painful experience!"

On March 10, 2009, the couple visited their physician for another checkup. To help support wound healing, the doctor recommended nutritional therapy with Juven, a product he had just learned about in a seminar. Mrs. L diluted powder Juven with 8 ounces of cold water, and Mr. L consumed 2 servings each day. They were both amazed to see pronounced improvement after just a few days of consumption. There was evidence of wound granulation after 6 days (Figure 3), and after just 13 days, the wound was closed. Mrs. L was delighted, "It was such a great relief!"

In a letter to Abbott on March 25, 2009, Mrs. L wrote, "We are very grateful to our physician for his recommendation of Juven, and we are also thankful to Abbott. I would like to share this experience with other patients and hope they can benefit from Juven too!"

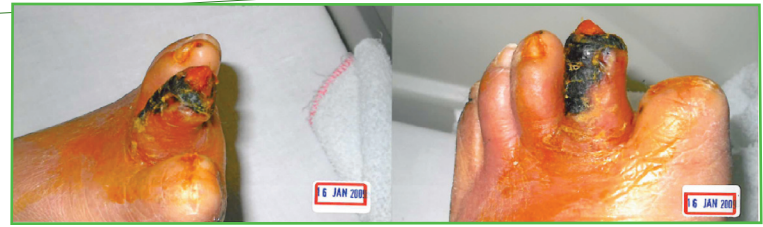


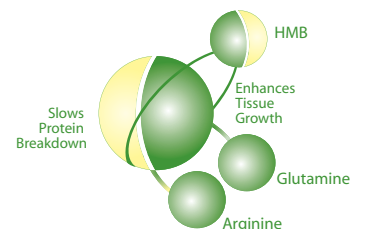
Figure 1
Mr. L's left foot had a gangrenous second toe and evidence of prior amputation of big toe. The left second toe was amputated on January 21, 2009.



Figure 2
One month after the surgical amputation, the wound still showed no signs of healing and appeared to have become infected.



Figure 3
Six days after Juven medical nutrition therapy was begun, there was evidence of wound granulation.



Only Juven is formulated with three ingredients that work together to deliver wound healing power:

HMB* The Protein Protector

- Enhances protein production and protects protein from breakdown,^{1,2} thus helping to build lean body mass to promote healing³
- Helps combat the loss of protein caused by inflammatory response^{1,2}
- Helps cells maintain strength and structure,⁴ which is important for proper healing³

β-hydroxy-β-methylbutyrate)

ARGININE The Wound-Repair Warrior

- Regulates wound healing and supports tissue repair through collagen synthesis and deposition⁵
- As a precursor of nitric oxide, increases blood flow and oxygenation through vasodilation⁶
- Stimulates secretion of the hormones that can have a positive impact on wound healing⁷

GLUTAMINE The Collagen Crusader

- Helps stimulate collagen and protein synthesis^{8,9}
- Helps maintain body protein and donates nitrogen during times of metabolic stress¹⁰
- Serves as an energy source for the cells of the immune system and GI tract, which helps prevent, and assist in recovery from, infections¹¹

Availability



Or order online at www.juven.com or call **1-877-465-8836**

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



References 1. Smith HJ, et al: *Cancer Res* 2005;65(1):277-283. 2. Smith HJ, et al: *Cancer Res* 2004;64:8731-8735. 3. Wolfe RR: *Am J Clin Nutr* 2006;84(3):475-482. 4. Nissen SL, et al: *J Nutr Biochem* 1997;8:300-311. 5. Schaffer MR, et al: *J Surg Res* 1996;63:237-240. 6. Schaffer MR, et al: *J Surg Res* 1997;71:25-31. 7. Barbul A, et al: *Surgery* 1990;108:331-337. 8. Bellon G, et al: *Biochem Biophys Acta* 1995;1268:311-323. 9. Karna E, et al: *Comp Biochem Physiol B Biochem Mol Biol* 2001;130:23-32. 10. Hammarqvist F, et al: *Ann Surg* 1989;209:455-461. 11. Smith RJ: *JPEN* 1990;14(S4):40S-44S.

*Juven (Orange) is the recipient of the ChefsBest® Certified Award. The ChefsBest Certified Award is awarded to brands highly rated overall by independent professional chefs.

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73245/JULY 2009
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