



Juven[®]: Rebuild. Recover. Heal. Case Study for Surgical Amputation

On September 13, 2006 Mr. H was transferred to a long-term care facility as he struggled to heal from surgical amputation of both legs above the knee, due to severe peripheral vascular disease (PVD). He was admitted with the following 5 wounds:

1. Stage II PU on sacrum
2. Stage II PU on R buttock
3. Stage II PU on R buttock
4. Surgical wound to L stump
5. Surgical wound to R stump

Dehisced open wound; 4.8cm x 14.6cm x 1cm, fibrinous necrosis, eschar noted to both outer edges. (see photo #1)

Upon admission, Mr. H weighed only 94 pounds and had severe malnutrition. A nutrition care plan was developed that included a regular diet plus vitamin C, zinc sulfate, and 2 packets of Juven daily. In addition to the nutritional care plan, Mr. H had routine wound care.



Photo #1
September 13, 2006:
Wound on right stump
had ruptured and
become necrotic



Photo #2
September 27, 2006:
2 weeks after Juven
initiation, the pressure
wounds had healed
and right stump was
significantly improved



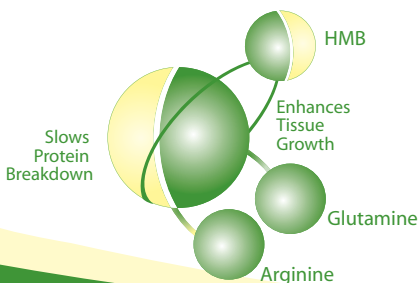
Photo #3
October 13, 2006:
Thirty days after
Juven initiation,
pressure ulcers
were gone, wound
on right stump
continued to heal
and left stump was
completely healed.

Juven provides components HMB, arginine and glutamine to help support healing and slow the breakdown of protein in muscle.

On September 27, 2006 after only 2 weeks, Mr. H's 3 pressure wounds had healed, and his right stump was significantly improved. (see photo #2)

The staff continued to give Mr. H Juven twice daily along with daily dressing changes. Six days later, Mr. H had gained 6 pounds and had his appetite back. His left stump was completely healed, while his right stump had improved even more.

On October 13, 2006, thirty days after beginning Juven along with with routine wound care, Mr. H went home weighing 102 pounds, a total weight gain of 8 pounds. His left stump was completely healed, and the pressure ulcers were gone. The wound on his right stump, reduced to just 1.2cm x 9.9cm, continued to show improvement.



Use under medical supervision

 **Abbott**
A Promise for Life

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

Longs Drugs

RITE
AID
PHARMACY

Giant

StopsShop

H-E-B

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.

© 2009 Abbott Laboratories Inc.
72741/FEBRUARY 2009
LITHO IN USA

Abbott
Nutrition