



INCREASED PROTEIN INTAKE ISN'T ALWAYS ENOUGH TO SUPPORT WOUND HEALING



PATIENTS RECOVERING FROM WOUNDS, SUCH AS DIABETIC FOOT ULCERS, PRESSURE INJURIES, BURN INJURIES, SURGERIES, OR OTHER TRAUMATIC CONDITIONS THAT IMPACT LEAN BODY MASS (LBM), MAY EXPERIENCE¹:

HYPERMETABOLISM



Increased metabolic activity and energy demands lead to:

- Arginine and glutamine deficiencies²

CATABOLISM



To fuel the increased energy demands, the body:

- Breaks down LBM¹

REDUCED IMMUNE FUNCTION



LBM loss as a result of catabolism leads to impaired immune function:

- 10% LBM loss impairs immunity and increases infection risk¹
- 20% LBM loss leads to impaired wound healing¹

These issues can lead to
impaired wound healing¹

FOR OPTIMAL WOUND HEALING, THE EFFECTS OF HYPERMETABOLISM, CATABOLISM, AND IMPAIRED IMMUNE FUNCTION SHOULD BE ADDRESSED¹

Juven[®] is a therapeutic nutrition drink mix with a unique blend of key ingredients to support wound healing by enhancing collagen formation in as little as two weeks^{2,3,*}:

ARGININE & GLUTAMINE



Juven contains 7g of arginine and glutamine per serving to replenish essential amino acids lost during hypermetabolism⁴

HYPERMETABOLISM



HMB & COLLAGEN PROTEIN



Juven has 2.5g collagen protein and 1.5g caHMB per serving, which slows muscle breakdown and enhances protein synthesis^{5,6}

CATABOLISM



MICRONUTRIENTS



Juven provides zinc, vitamin C, vitamin E, and vitamin B₁₂, which are important to wound healing and are key nutrients to support immune system health^{4,7}

IMMUNE SYSTEM FUNCTION



WHEN YOUR PATIENTS NEED MORE THAN JUST PROTEIN, JUVEN CAN HELP

To get the same amount of specialized ingredients that Juven provides in just

2 PACKETS/DAY

your patients would need to eat:



4 RIBEYE STEAKS (8OZ)[†] for an equivalent amount of arginine



20 EGGS[†] for an equivalent amount of glutamine



6000 AVOCADOS^{6,8,9} for an equivalent amount of HMB[†]



A MULTIVITAMIN for an equivalent amount of zinc and vitamins C, E, and B₁₂



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* Studied in both healthy elderly and patients with diabetic foot ulcers, taking 2 servings per day, as measured by hydroxyproline levels.

[†] Equivalent nutrient amounts supplied by USDA.

References: 1. Williams JZ, et al. *Ann Surg.* 2002;236(3):369-375. 2. Jones MS, et al. *Surg Infect.* 2014;15(6):708-712. 3. Sugihara F, et al. *Jpn Pharmacol Ther.* 2015;43(9):1323-1328. 4. Stechmiller JK, et al. *Nutr Clin Pract.* 2005;20(1):52-61. 5. Bellon G, et al. *Biochim Biophys Acta.* 1995;1268(3):311-323. 6. Andrews FJ, et al. *Br J Nutr.* 2002;87(suppl 1):S3-S8. 7. Molnar JA, ed. *Nutrition and Wound Healing.* Boca Raton, FL: CRC Press; 2007:5. 8. Wilson GJ, et al. *Nutr Metab.* 2008;5:1. 9. Lee SK, et al. *Adv Skin Wound Care.* 2006;19(2):92-96.

