



Dipeptiven

Completing your amino acid profile

Amino acid concentrate of the Dipeptide
N(2) - L - alanyl - L - glutamine, to be used to
supply glutamine during parenteral nutrition.

Intravenous glutamine supplement

Contains per 100 mL: 20 g Dipeptide,
13,46 g Glutamine

Recommended dosage:

1,5 - 2,5 mL Dipeptiven per kg body
weight (equivalent to 0,3 - 0,5 g
N(2) - L - alanyl - L - glutamine per kg
body weight)

Dipeptiven

100 mL Glass bottle

Dipeptiven®
i.v. **Glutamine**

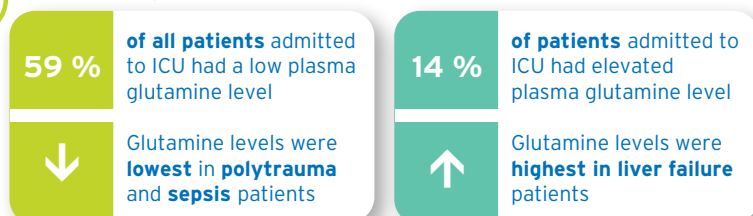


Glutamine:¹

- Most abundant free amino acid
- Low plasma glutamine levels have been associated with poor outcome



Baseline glutamine levels on ICU admission²



Both low and high plasma glutamine levels have been associated with increased mortality.



Significant indicators of low glutamine levels²

Infective / inflammatory markers:

- Elevated CRP > 87,95 mg/dL
- Low serum albumin

Disease severity scores:

- Elevated APACHE II
- Elevated SOFA

May help identify ICU patients at highest risk for glutamine deficiency

Right Patient

The patient populations that benefit from receiving intravenous glutamine supplemented parenteral nutrition include:

	Decreased hospital mortality risk	Decreased infectious complications	Decreased length of hospital stay	Cost benefit	Improved glucose homeostasis
Critically ill patients ^{3,4,5}	✓	✓	✓	✓	✓
Abdominal surgical patients ^{6,7}	✓	✓	✓	✓	✓
Acute pancreatitis patients ⁸	✓	✓	✓	✓	✓
Burns patients ⁹	✓	✓	✓	✓	✓
Trauma patients ¹⁰	✓	✓	✓	✓	✓

Right Dose

Body weight (kg)	IV Glutamine Dose calculated at 0,2 - 0,34 g/kg/day*	
	min (g)	max (g)
40	8	14
45	9	15
50	10	17
55	11	19
60	12	20
65	13	22
70	14	24
75	15	25
80	16	27
85	17	29
90	18	30
95	19	32
100	20	34
110	22	37
120	24	40

Right Result

Meta-Analysis³ in critically ill patients confirms, that when patients are supplemented with intravenous glutamine according to guidelines, there are benefits in terms of:



Reduced risk of hospital mortality by 45 %



Reduced LOS in ICU by 1,61 days and hospital by 2,3 days**



30 % Reduction in infectious complication risk



Reduced duration of mechanical ventilation by 1,56 days

*Remember to check the quantity of glutamine in your parenteral nutrition bag if applicable.

**Length of stay

1. Wischmeyer PE. Curr Opin Crit Care. 2019 Aug;25(4):322-328. doi: 10.1097/MCC.0000000000000633. PMID: 31247630. 2. Blaauw R, Nel DG, Schleicher GK. Nutrients. 2020 Feb 3;12(2):402. doi: 10.3390/nu12020402. PMID: 32028696; PMCID: PMC7071267. 3. Stehle P, Ellger B, Kojic D, et al. Clin Nutr ESPEN. 2017 Feb;17:75-85. doi: 10.1016/j.clnesp.2016.09.007. Epub 2016 Oct 27. PMID: 28361751. 4. Pradelli L, Povero M, Muscaritoli M, et al. Eur J Clin Nutr. 2015 May;69(5):546-51. doi: 10.1038/ejcn.2014.255. Epub 2014 Dec 3. PMID: 25469466; PMCID: PMC4424803. 5. Déchelotte P, Hasselmann M, Cynober L, et al. Crit Care Med. 2006 Mar;34(3):598-604. doi: 10.1097/01.CCM.0000201004.30750.D1. PMID: 16505644. 6. Yue C, Tian W, Wang W, et al. Am Surg. 2013 May;79(5):506-13. 7. Mertes N, Schulzki C, Goeters C, et al. Clin Nutr. 2000 Dec;19(6):395-401. 8. Yong L, Lu QP, Liu SH, Fan H. JPEN J Parenter Enteral Nutr. 2016 Jan;40(1):83-94. doi: 10.1177/0148607115570391. 9. Wischmeyer PE, Lynch J, Liedel J, et al. Crit Care Med. 2001 Nov;29(11):2075-2080. 10. Grintescu IM, Luca Vasiliu I, Cucoreanu Badica I, et al. Clin Nutr. 2015 Jun;34(3):377-382.



**FRESENIUS
KABI**

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[S3] Dipeptiven. Reg. No.: 33/23/0210
Each 1 000 mL concentrate contains 200,0 g
N(2) - L - alanyl - L - glutamine (82,0 g L - alanine & 134,6 g
L - glutamine).
For full prescribing information please refer to the latest
professional information approved by the South African
Health Products Regulatory Authority.