

Supplementary file 2:

Plasma amino acid concentrations ($\mu\text{mol/L}$) in critically ill patients at baseline (basal) and after 3 hours extra parenteral amino acids (Glavamin, Fresenius-Kabi; equivalent of 1 g/kg/day). On the first study day, 13 patients were studied and on the second study day 7 of these were still treated in the ICU and studied again.

	<u>First Study day</u>				<u>Second Study day</u>				<u>Statistics (P= ;Paired t-test)</u>	
	<u>Basal</u>		<u>AA</u>		<u>Basal</u>		<u>AA</u>		<u>First</u>	<u>Second</u>
	<u>Mean</u>	<u>SD</u>	<u>Mean</u>	<u>SD</u>	<u>Mean</u>	<u>SD</u>	<u>Mean</u>	<u>SD</u>	<u>Basal vers. AA</u>	<u>Basal vers. AA</u>
Glutamate	65.0	15.8	71.2	11.7	69.3	15.5	67.1	21.3	0.4906	0.7874
Serine	44.9	12.5	49.8	13.4	47.6	9.5	47.9	11.5	0.2349	0.4743
Asparagine	68.1	14.7	88.7	21.0	73.1	9.6	91.8	22.5	0.0081	0.2271
Glutamine	442.7	45.2	532.6	88.7	499.5	115.0	563.5	165.2	0.0226	0.6739
Histidine	60.6	12.5	87.2	18.0	57.8	4.4	72.1	9.7	0.0171	0.2179
Glycine	154.8	29.0	189.7	40.6	179.9	61.9	228.5	105.4	0.0053	0.2326
Threonine	87.4	22.4	158.7	28.4	92.1	18.0	164.8	43.9	0.0014	0.0649
3-Methylhistidine	7.0	3.6	6.9	4.8	6.7	3.8	7.2	4.3	0.9376	0.0503
Citrulline	18.1	1.5	21.5	3.7	20.0	5.1	23.4	10.7	0.0316	0.5195
Arginine	62.6	18.0	102.8	30.1	75.6	14.1	119.4	33.8	0.0030	0.1057
Alanine	230.4	64.7	301.0	104.7	222.0	47.9	295.5	90.3	0.0239	0.1963
Taurine	58.8	19.6	58.6	31.7	80.1	20.2	59.8	19.9	0.9807	0.3799
Tyrosine	85.3	13.4	103.2	13.9	77.7	3.4	92.2	7.5	0.0098	0.1611
Valine	218.0	33.0	293.3	51.4	252.7	27.9	331.2	64.8	0.0078	0.0935
Methionine	26.5	11.0	46.4	16.7	27.9	7.4	49.0	10.7	0.0042	0.0279
Tryptophane	28.8	7.8	38.2	9.4	33.4	9.8	39.1	15.4	0.0174	0.3529
Phenylalanine	149.1	66.3	189.6	64.7	150.6	22.7	171.8	5.4	0.0078	0.1893
Isoleucine	50.2	8.0	77.4	15.5	62.6	12.9	88.2	16.5	0.0085	0.0402
Ornithine	65.6	36.2	92.7	49.4	56.7	6.4	67.6	6.8	0.0198	0.0903
Leucine	103.7	17.5	138.4	24.3	118.2	7.6	150.1	17.1	0.0150	0.0884
Lysine	157.9	38.5	213.5	53.1	172.9	31.3	230.1	54.5	0.0072	0.1746
BCAA	360.4	96.2	526.9	172.2	383.2	74.8	524.2	91.8	0.0000	0.0024
SUM	1913.0	533.5	2621.0	785.0	2141.5	392.9	2665.0	714.3	0.0000	0.0058