

Supplement table 1. Serum amino acid concentration in Sequential infusion protocol

Essential amino acid (mcg/mL)	Pre-dialysis Median (IQR)	Post-dialysis Median (IQR)	Median (IQR) change	<i>p</i> -value
L-Leucine	0 (0, 0)	1.02 (0, 1.12)	1.01 (0, 1.11)	0.018
L-Lysine	6529.61 (5560.2, 8623.73)	4821.29 (3578.81, 6580.09)	-2318 (-3517.71, -180.25)	0.037
L-Methionine	1.77 (0, 2.01)	0.74 (0, 3.38)	-0.84 (-2.01, 1.49)	0.575
L-Phenylalanine	4.75 (3.22, 7.01)	7.13 (3.87, 11.7)	-0.32 (-1.24, 5.82)	0.508
L-Tryptophane	49.17 (42.54, 60.9)	145.23 (91.31, 278.89)	59.98 (45.99, 140.92)	0.074
L-Valine	58 (28.06, 61.57)	221.63 (113.96, 304.34)	131.1 (85.9, 245.88)	0.007
Total essential amino acid (mcg/mL)	7223.56 (6034.03, 8787.78)	5281.44 (3763.37, 7476.57)	-1389.53 (-3429.37, -418.96)	0.028
Non-essential amino acid (mcg/mL)				
L-Cysteine	6321.01 (0, 8470.16)	4687.33 (3307.51, 6798.71)	-1354.72 (-4353.78, 1563.32)	0.575
L-Proline	34.77 (18.99, 61.74)	48.76 (34.54, 61.21)	12.6 (-21.83, 37.11)	0.799
L-Tyrosine	0 (0, 0)	0 (0, 0)	0 (0, 0)	1.000
Total non-essential amino acid (mcg/mL)	6349.15 (122.7, 8489.16)	4742.01 (3342.05, 6859.92)	-1330.24 (-4375.61, 1583.98)	0.575

Abbreviation: mcg/mL, microgram per milliliter

Supplement table 2. Serum amino acid concentration in Continuous infusion protocol

Essential amino acid (mcg/mL)	Pre-dialysis Median (IQR)	Post-dialysis Median (IQR)	Median (IQR) change	<i>p</i> -value
L-Leucine	0 (0, 1.05)	0 (0, 1.07)	0 (-0.03, 0.98)	0.753
L-Lysine	6069.19 (5039.65, 7033.26)	4457.9 (4131.42, 5757.79)	-1505.67 (-2038.56, -1072.84)	0.022*
L-Methionine	2.78 (1.84, 4.03)	2.9 (0, 4.1)	0.29 (-3.48, 1.87)	0.959
L-Phenylalanine	6.93 (4.64, 17.05)	7.51 (4.15, 9.17)	-1.98 (-11.24, 1.53)	0.285
L-Tryptophane	38.98 (23.79, 42.75)	70.83 (45.62, 143.09)	37.75 (10.99, 119.27)	0.203
L-Valine	41.47 (29.94, 64.67)	73.23 (43.65, 96.31)	20.5 (9.26, 41.58)	0.169
Total essential amino acid (mcg/mL)	6183.67 (5136.21, 7545.76)	4626.43 (4255.21, 6211.19)	-1484.33 (-2484.7, -606.11)	0.022*
Non-essential amino acid (mcg/mL)				
L-Cysteine	5092.48 (4108.4, 8899.21)	5916.28 (3610.1, 7441.4)	-1364.94 (-4541.42, -893.72)	0.203
L-Proline	25.88 (17.14, 47.26)	24.57 (22.15, 35.03)	0.76 (-25.11, 10.55)	0.721
L-Tyrosine	0 (0, 0)	0 (0, 0)	0 (0, 0)	1.000
Total non-essential amino acid (mcg/mL)	5114.56 (4135.68, 8916.35)	5934.77 (3633.61, 7451.19)	-1372.22 (-4647.27, -882.61)	0.203

Abbreviation: mcg/mL, microgram per milliliter