

Supplementary Table S1: Descriptive data of severely undernourished patients at diagnosis (SD ≤ -3) according to mean Z-score during the first six months of treatment on nutritional intervention

Parameter	Time trend	Intervention group		Control group	
		%(n) malnourished	Mean (range)	%(n) malnourished	Mean (range)
Severely stunted (HAZ)	Admission	5.2 (12/229)	-4.04 [-4.91, -3.04]	2.2 (2/91)	-3.37 [-3.57, -3.17]
	Month 1	3.9 (9/227)	-4.00 [-4.94, -3.23]	1.1 (1/91)	-3.64 [-4.34, -2.93]
	Month 2	2.7 (6/221)	-3.83 [-4.30, -3.37]	2.2 (2/89)	-3.72 [-4.34, -3.09]
	Month 3	2.8 (6/212)	-3.85 [-5.49, -2.45]	50 (1/87)	-3.68 [-3.68, -3.68]
	Month 4	1.9 (4/208)	-3.69 [-5.49, -1.51]	1.1 (0/83)	-2.36 [-2.62, -2.10]
	Month 5	2.4 (5/206)	-3.57 [-5.73, -1.51]	0 (0/82)	-2.78 [-2.83, -2.72]
	Month 6	1.9 (4/202)	-3.29 [-5.39, -0.83]	1.3 (1/79)	-3.10 [-3.26, -2.94]
Underweight (WAZ)	Admission	0.9 (2/229)	-3.67 [-3.76, -3.53]	3.3 (3/91)	-3.13 [-3.19, -3.07]
	Month 1	0.9 (2/227)	-3.63 [-4.03, -3.13]	3.3 (3/91)	-3.07 [-3.08, -3.06]
	Month 2	0.9 (2/221)	-3.53 [-4.60, -2.08]	2.2 (2/89)	-3.17 [-3.17, -3.16]
	Month 3	0.9 (2/212)	-2.86 [-3.92, -1.80]	1.1 (1/87)	-3.11 [-3.11, -3.10]
	Month 4	0.5 (1/208)	-2.86 [-3.86, -1.86]	1.2 (1/83)	-2.82 [-3.57, -2.06]
	Month 5	0 (0/206)	-2.56 [-3.92, -1.20]	1.2 (1/82)	-1.83 [-1.83, -1.83]
	Month 6	0.5 (1/202)	-4.10 [-4.10, -4.10]	1.3 (1/79)	-2.82 [-3.85, -1.79]
Wasted (BAZ)	Admission	6.1 (14/229)	-3.98 [-5.52; -3.04]	4.3 (4/91)	-3.66 [-4.04; -3.32]
	Month 1	4.4 (10/227)	-3.91 [-5.98; -1.22]	2.2 (2/91)	-2.66 [-3.68; -1.18]
	Month 2	3.6 (8/221)	-3.33 [-5.67; -1.05]	2.2 (2/89)	-2.31 [-3.77; -0.35]
	Month 3	1.9 (4/212)	-3.02 [-6.65; -0.86]	1.1 (1/87)	-2.12 [-3.56; -0.73]
	Month 4	0.9 (2/208)	-2.41 [-4.96; -0.71]	1.2 (1/83)	-2.09 [-3.73; -1.13]
	Month 5	1.9 (4/206)	-2.55 [-5.64; -0.02]	0 (0/82)	-1.32 [-1.35; -1.28]
	Month 6	1.9 (4/202)	-3.26 [-6.93; -0.61]	1.3 (1/79)	-2.00 [-3.93; -1.20]
Patients under 5 years with SAM (MUAC < -3)	Admission	5.6 (6/107)	-4.00 [-5.33; -3.08]	2.3 (1/44)	-3.2 [-3.2; -3.2]
	Month 1	0.9 (1/106)	-2.36 [-4.00; -1.11]	-	-
	Month 2	-	-1.96 [-2.96; -1.46]	-	-2.76 [-2.76; -2.76]
	Month 3	-	-1.73 [-2.50; -1.16]	-	-1.28 [-1.28; -1.28]
	Month 4	-	-1.73 [-2.73; -0.46]	-	-1.34 [-1.34; -1.34]
	Month 5	-	-1.36 [-2.06; -0.67]	-	-
	Month 6	-	-1.98 [-2.57; -1.63]	-	-2.55 [-2.55; -2.55]
Patients ≥ 5 years with SAM (MUAC < -3)	Admission	5.7 (7/122)	-4.94 [-13.89, -3.04]	2.1 (1/47)	-4.54 (-7.08, -3.11)
	Month 1	4.9 (6/121)	-4.37 [-13.96, -1.57]	-	-4.19 (-7.15, -2.49)
	Month 2	0.8 (1/121)	-2.94 [-6.37, -0.34]	-	-2.29 [-2.29; -2.29]
	Month 3	0.9 (1/116)	-2.76 [-6.39, -0.64]	-	-
	Month 4	1.7 (2/116)	-2.98 [-6.17, -0.79]	-	-
	Month 5	0.9 (1/115)	-2.85 [-8.19, -1.16]	-	-2.73 [-2.73; -2.73]
	Month 6	0.9 (1/114)	-3.21 [-8.58, -1.19]	-	-

Ref: reference data used to compare results; HAZ: height for age indicates stunting; WAZ: weight for age indicates underweight; BAZ: body mass index for age indicates wasting; MAM: moderate acute malnourished (according to MUAC for age)

Supplementary Table S2: Descriptive data of moderate malnourished patients at diagnosis (< -2 > -3SD) according to mean Z-score changes during the first six months of treatment on nutritional intervention

Parameter	Time trend	Intervention group		Control group	
		% (n) malnourished	Mean (range)	% (n) malnourished	Mean (range)
Stunted (HAZ)	Admission	21.8 (50/229)	-2.87 [-4.91, -2.01]	12.1 (11/91)	-2.54 [-3.57, -2.03]
	Month 1	18.1 (41/227)	-2.78 [-4.94, -0.52]	9.8 (9/91)	-2.41 [-4.34, -1.32]
	Month 2	15.3 (34/221)	-2.73 [-4.49, -1.87]	8.9 (8/89)	-2.42 [-4.34, -1.35]
	Month 3	14.6 (31/212)	-2.67 [-5.49, -0.83]	6.8 (6/87)	-2.38 [-3.68, -1.84]
	Month 4	13.9 (29/208)	-2.61 [-5.49, -1.09]	7.2 (6/83)	-2.24 [-2.65, -1.93]
	Month 5	12.6 (26/206)	-2.43 [-5.73, -0.79]	7.3 (6/82)	-2.28 [-2.83, -1.74]
	Month 6	11.9 (24/202)	-2.38 [-5.39, -0.39]	6.3 (5/79)	-2.45 [-3.26, -1.66]
Underweight (WAZ)	Admission	6.1 (14/229)	-2.70 [-3.76, -2.03]	6.5 (6/91)	-2.71 [-3.19, -2.28]
	Month 1	3.5 (8/227)	-2.28 [-4.03, -0.42]	3.3 (5/91)	-3.10 [-3.53, -2.53]
	Month 2	4.1 (9/221)	-2.50 [-4.60, -0.42]	4.5 (4/89)	-2.64 [-3.17, -1.84]
	Month 3	1.9 (4/212)	-1.98 [-3.92, -0.19]	3.4 (3/87)	-2.43 [-3.11, -1.53]
	Month 4	2.9 (6/208)	-2.08 [-3.86, -0.26]	3.6 (3/83)	-2.38 [-3.57, -1.75]
	Month 5	0.9 (2/206)	-1.58 [-3.92, -0.33]	1.2 (1/82)	-1.97 [-2.73, -1.34]
	Month 6	0.5 (1/202)	-1.69 [-4.10, -0.04]	2.5 (2/79)	-2.24 [-3.85, -1.28]
Wasted (BAZ)	Admission	11.3 (26/229)	-3.25 [-5.52, -2.02]	8.8 (8/91)	-2.99 [-4.04, -2.04]
	Month 1	7.9 (18/227)	-2.96 [-5.98, -0.86]	6.5 (6/91)	-3.09 [-4.12, -1.18]
	Month 2	4.9 (11/221)	-2.52 [-5.67, 0.34]	5.6 (5/89)	-2.44 [-3.77, -0.35]
	Month 3	4.7 (10/212)	-2.12 [-6.65, 0.94]	3.4 (3/87)	-2.09 [-3.56, -0.73]
	Month 4	5.2 (11/208)	-2.06 [-4.96, -0.02]	2.4 (2/83)	-1.96 [-3.73, -0.76]
	Month 5	4.4 (9/206)	-2.01 [-5.63, 1.10]	1.2 (1/82)	-1.47 [-3.01, -0.24]
	Month 6	4.9 (10/202)	-2.27 [-6.93, 1.67]	2.5 (2/79)	-1.97 [-3.93, -0.58]
Children <5 yr with MAM (MUAC < -2)	Admission	14.1 (15/107)	-3.07 [-5.33; -2.02]	2.3 (1/44)	-2.66 [-3.20; -2.01]
	Month 1	9.4 (10/106)	-2.27 [-4.00; -1.11]	2.3 (1/44)	-2.71 [-3.02; -2.48]
	Month 2	6.0 (6/100)	-1.91 [-3.28; -0.45]	2.4 (1/42)	-1.92 [-3.06; -0.49]
	Month 3	5.2 (5/96)	-1.63 [-2.50; -0.32]	2.4 (1/42)	-1.37 [-2.33; -0.45]
	Month 4	3.2 (3/92)	-1.32 [-2.73; 0.40]	2.5 (1/40)	-1.83 [-2.31; -1.34]
	Month 5	2.2 (2/91)	-1.33 [-2.42; -0.09]	0 (0/39)	-1.96 [-1.96; -1.96]
	Month 6	2.3 (2/88)	-1.18 [-2.91; 0.53]	2.7 (1/36)	-0.77 [-2.55; -0.55]
Children ≥5 yr with MAM (MUAC < -2)	Admission	6.6 (8/122)	-3.67 [-13.89; -2.02]	12.7 (6/47)	-3.13 [-7.08; -2.11]
	Month 1	5.7 (7/121)	-3.29 [-13.96; -0.30]	8.5 (4/47)	-2.79 [-7.15; -0.71]
	Month 2	3.3 (4/121)	-2.31 [-6.37; 0.78]	4.3 (2/47)	-2.26 [-2.89; -0.73]
	Month 3	5.2 (6/116)	-2.07 [-6.39; 0.99]	2.2 (1/45)	-1.78 [-2.79; 1.49]
	Month 4	4.3 (5/116)	-2.16 [-6.17; 0.47]	2.2 (1/45)	-2.78 [-3.58; -1.98]
	Month 5	4.3 (5/115)	-2.25 [-9.19; 0.62]	0 (0/45)	-2.36 [-2.58; -2.13]
	Month 6	3.5 (4/114)	-2.43 [-8.58; 0.41]	2.3 (1/43)	-2.35 [-2.59; -2.02]

Ref: reference data used to compare results; HAZ: height for age indicates stunting; WAZ: weight for age indicates underweight; BAZ: body mass index for age indicates wasting; MAM: moderate acute malnourished (according to MUAC for age