

Supplemental Table 1		Correlates of Vitamin D insufficiency (25(OH)D < 75 nmol/L) in HIV-uninfected TB patients			
		Univariate (p<0.20)		Multivariate (p<0.05)	
Variable		RR (95% CI)	p-value	RR (95% CI)	p-value
Season			0.002		0.002
	1: Dry (Jan-Feb)	Ref.		Ref.	
	2: Long Rains (Mar-Jun)	1.07 (0.74, 1.53)		1.09 (0.76, 1.56)	
	3: Dry (Jul-Oct)	1.50 (1.07, 2.09)		1.50 (1.08, 2.08)	
	4: Short Rains (Nov-Dec)	1.29 (0.84, 1.96)		1.26 (0.84, 1.90)	
Sex	Female	1.19 (0.99, 1.43)	0.07		
Cohabits with a partner		0.89 (0.75, 1.06)	0.19		
Money spent per person per day on food, per 1000 Tanzanian Shillings*		0.76 (0.59, 0.98)	0.04	0.76 (0.59, 0.98)	0.03
Money spent per person per day on food quartiles			0.14		
	0:<250	1.36 (1.03, 1.80)			
	1:250-499	1.11 (0.82, 1.52)			
	2:500-750	1.13 (0.84, 1.53)			
	3:>750	Ref.			
AFB Culture positive at baseline		1.17 (0.94, 1.46)	0.16		
Number of colonies in AFB culture			0.16		
	1	Ref.			
	2	1.01 (0.66, 1.56)			
	3	0.95 (0.63, 1.44)			
	4	1.05 (0.70, 1.58)			

	5	1.27 (1.01, 1.59)			
Received TB treatment in the past 5 years		1.41 (0.97, 2.04)	0.07		
Hemoglobin, g/dL		0.92 (0.87, 0.97)	0.004		
CD4 T-cells, 100 cells/ μ L		1.03 (0.99, 1.07)	0.12		
CD3 T-cells, 100 cells/ μ L		1.02 (1.00, 1.04)	0.12		
Depressed >2 weeks, ever		1.17 (0.97, 1.42)	0.10		
Dysentery		0.23 (0.04, 1.41)	0.11		
Outpatient visit		1.14 (0.95, 1.38)	0.16		
Skin rash		0.73 (0.46, 1.16)	0.18		
Height quartiles, cm			0.01		0.01
	<158.1	Ref.		Ref.	
	158.1-164.0	1.08 (0.87, 1.32)		1.12 (0.93, 1.36)	
	164.1-169.5	0.76 (0.59, 0.98)		0.82 (0.64, 1.04)	
	169.6+	0.77 (0.60, 0.99)		0.81 (0.64, 1.03)	
Weight, kg		0.99 (0.97, 1.00)	0.03		
WHO BMI groups, kg/m ²			0.14		
	<16	1.14 (0.88, 1.48)			
	16-16.99	0.98 (0.74, 1.29)			
	17-18.49	Ref.			
	18.5-19.99	0.76 (0.57, 1.02)			
	20-21.99	0.89 (0.68, 1.15)			
	22+	1.11 (0.83, 1.48)			
Mid-Upper Arm Circumference (MUAC) <22 cm		1.27 (1.07, 1.51)	0.01		
Triceps Skinfold Thickness,		1.02 (1.00, 1.03)	0.09		

cm						
<p>p-values obtained using Binomial Regression; RR: Risk Ratio; 95% CI: 95% Confidence Interval; * 1 US Dollar \cong 1000 Tanzanian Shillings at the time of the study</p>						

Supplemental Table 2		Correlates of Vitamin D insufficiency (serum 25(OH)D <75 nmol/L) in HIV-infected TB patients			
		Univariate (p<0.20)		Multivariate (p<0.05)	
<i>Variable</i>		RR (95% CI)	P-value	RR (95% CI)	P-value
Age		0.99 (0.98, 1.00)	0.01		
Center			0.03		
	Mwananyamala	1.05 (0.86, 1.27)			
	Temeke	Ref.			
	Tandale	0.80 (0.63, 1.02)			
	Mbgala	0.67 (0.44, 1.01)			
	Amana	1.03 (0.82, 1.29)			
Cohabits with a partner		0.90 (0.77, 1.05)	0.19		
Assets at home			0.07		
	0:none	1.36 (1.03, 1.80)			
	1:one	0.88 (0.66, 1.16)			
	2:2-3	0.87 (0.67, 1.14)			
	3:4-5	Ref.			
Received TB treatment in the past 5 years		0.58 (0.31, 1.10)	0.10		
Hemoglobin, g/dL		0.95 (0.90, 1.00)	0.04	0.93 (0.89, 0.98)	0.007
Albumin, U/L		0.93 (0.86, 1.02)	0.13		
CD4 T-cells, 100 cells/ μ L		1.02 (0.99, 1.05)	0.12	1.04 (1.01, 1.07)	0.02
Depressed >2 weeks, ever		0.80 (0.61, 1.05)	0.11		
Hospitalization		1.30 (0.94, 1.80)	0.11		
Skin rash		1.32 (1.07, 1.64)	0.01		
Extrapulmonary TB		1.35 (0.93, 1.96)	0.11		

Height, cm		0.99 (0.98, 1.00)	0.08			
Weight, kg		0.99 (0.98, 1.00)	0.11			
WHO Body Mass Index (BMI) groups, kg/m ²			0.06			
	<16	0.81 (0.57, 1.16)				
	16-16.99	0.99 (0.76, 1.27)				
	17-18.49	Ref.				
	18.5-19.99	0.80 (0.63, 1.02)				
	20-21.99	0.75 (0.58, 0.96)				
	22+	1.05 (0.84, 1.30)				
Mid-Upper Arm Circumference (MUAC) quartiles, cm			0.02			
	<=21	Ref.				
	21.1-23.0	1.09 (0.90, 1.32)				
	23.1-24.9	0.81 (0.61, 1.08)				
	25+	0.82 (0.66, 1.03)				
p-values obtained using Binomial Regression; RR: Risk Ratio; 95% CI: 95% Confidence Interval						