

Table 7 Prediction equations of lung function values for adult male Sudanese (≥ 20 years) by region

Region/parameter	Regression equations			Predicted mean*
	\times Height (cm)	\times Age (years)	Constant	
West Sudan				
FCV (L)	0.035	-0.019	-1.89	3.43
FEV1 (L)	0.030	-0.023	-1.29	3.19
PEFR (L/min)	2.49	-3.37	+183.9	505.8
East Sudan				
FCV (L)	0.026	-0.018	-0.21	3.71
FEV1 (L)	0.029	-0.018	-0.99	3.37
PEFR (L/min)	3.86	-1.81	-89.0	513.2
Central Sudan				
FCV (L)	0.011	-0.021	+2.48	3.72
FEV1 (L)	0.008	-0.022	+2.70	3.39
PEFR (L/min)	1.06	-3.10	+410.2	497.0
North Sudan				
FCV (L)	0.015	-0.030	+2.75	3.85
FEV1 (L)	0.015	-0.026	+1.67	3.41
PEFR (L/min)	2.93	-0.54	+45.5	528.0
South Sudan				
FCV (L)	0.019	-0.070	+1.50	3.45
FEV1 (L)	0.019	-0.370	+0.99	3.15
PEFR (L/min)	3.95	-6.72	-16.77	485.7
Total				
FCV (L)	0.020	-0.019	+0.70	3.59
FEV1 (L)	0.020	-0.020	+0.52	3.28
PEFR (L/min)	2.14	-2.16	+201.2	499.5

*Predicted means values for adult male Sudanese (≥ 20 years) of height 170 cm and age 30 years.

FVC = forced vital capacity; FEV1 = forced expiratory volume in 1 second; PEFR = peak expiratory flow rate.