Table 6 **Prediction equations of lung function values for normal male and female Sudanese by age group**

| Sex and age/parameter | Regression equations | | | *R* | SEE |
|---|---|---|---|---|---|
| | × Height (cm) | × Age (years) | Constant | | |
| ***Male adults ≥ 20 years*** | | | | | |
| FVC (L) | 0.020 | −0.019 | +0.701 | 0.46 | 0.61 |
| FEV1 (L) | 0.020 | −0.020 | +0.524 | 0.52 | 0.53 |
| PEFR (L/min) | 2.14 | −2.16 | +201.2 | 0.31 | 104.6 |
| ***Female adults ≥ 20 years*** | | | | | |
| FVC (L) | 0.020 | −0.014 | +0.097 | 0.49 | 0.41 |
| FEV1 (L) | 0.019 | −0.015 | +0.116 | 0.55 | 0.36 |
| PEFR (L/min) | 1.46 | −0.80 | +139.7 | 0.26 | 61.0 |
| ***Male adults > 15–< 20 years*** | | | | | |
| FVC(L) | 0.050 | +0.133 | −7.26 | 0.79 | 0.43 |
| FEV1(L) | 0.046 | +0.087 | −6.08 | 0.77 | 0.41 |
| PEFR(L/min) | 5.05 | +14.5 | −670.0 | 0.57 | 82.6 |
| ***Female adults > 15–< 20 years*** | | | | | |
| FVC (L) | 0.024 | +0.130 | −3.42 | 0.45 | 0.42 |
| FEV1 (L) | 0.021 | +0.110 | −2.93 | 0.48 | 0.34 |
| PEFR (L/min) | 2.64 | +23.4 | −485.9 | 0.43 | 63.4 |
| ***Male children ≤ 15 years*** | | | | | |
| FVC (L) | 0.026 | +0.026 | −2.06 | 0.61 | 0.4 |
| FEV1 (L) | 0.025 | +0.033 | −2.16 | 0.69 | 0.32 |
| PEFR (L/min) | 2.25 | +15.9 | −238.3 | 0.63 | 58.4 |
| ***Female children ≤ 15 years*** | | | | | |
| FVC (L) | 0.018 | +0.064 | −1.29 | 0.57 | 0.42 |
| FEV1 (L) | 0.014 | +0.067 | −1.04 | 0.6 | 0.34 |
| PEFR (L/min) | 1.69 | +3.93 | −25.3 | 0.45 | 47.0 |

*R = multiple correlation coefficient; SEE = standard error of the estimate.*
*FVC = forced vital capacity; FEV1 = forced expiratory volume in 1 second; PEFR = peak expiratory flow rate.*