Supplementary Table. Regression models for bSCr on age, weight and TBW

Sex	Independent variables	Model type	Best fit	Correlation
Men	Age, TBW	Linear	$0.689041 + 0.00615805*age + 0.00184082*TBW$	0.16193
Women	Age, TBW	Linear	$0.628065 + 0.00445433*age + 0.00302547 *TBW$	0.16194
Men	Age, weight	Linear	$0.728724 + 0.00595947*age + 0.000628884*weight$	0.161787
Women	Age, weight	Linear	$0.671182 + 0.00442914*age + 0.000810788*weight$	0.161929
Men	Age, TBW	Nonlinear, $a + b*age^g + c*TBW^h$	$0.665727 + 0.000418181*age^{1.55636} + 0.0424053*TBW^{0.438353}$	0.165134
Women	Age, TBW	Nonlinear, $a + b*age^g + c*TBW^h$	$-0.368833 + 0.000095169*age^{1.79443} + 0.868862*TBW^{0.094867}$	0.16406
Men	Age, weight	Nonlinear, $a + b*age^g + c*weight^h$	$8.28867 - 9.02162\ age^{-0.0395904} + 0.396278*weight^{0.0666944}$	0.151738
Women	Age, weight	Nonlinear, $a + b*age^g + c*weight^h$	$-0.368833 + 0.000095169*age^{1.79443} + 0.868862*TBW^{0.094867}$	0.16406

Correlation is calculated between measured and estimated SCr values. Note that multiple R-squared is the square of this correlation. Abbreviations: bSCr, baseline serum creatinine; TBW, total body water