

**Supplementary table S1. Further measures describing the distribution of the data\***

Variable	Male				Female			
	N	Mean	SD	95% CI	N	Mean	SD	95% CI
Children								
Albumin (mg/L)	837	24.6	182.0	11.1 to 38.1	720	21.6	50.4	17.2 to 26.0
Creatinine (mmol/L)	837	8.7	4.8	8.3 to 9.1	720	8.3	4.9	7.8 to 8.7
Albumin creatinine ratio	837	2.6	12.8	1.5 to 3.7	720	3.0	5.8	2.5 to 3.5
Ln albumin (ln (mg/L))	837	2.1	0.9	2.0 to 2.2	720	2.3	1.0	2.2 to 2.4
Ln Creatinine (ln (mmol/L))	837	2.0	0.7	1.9 to 2.0	720	1.9	0.7	1.8 to 2.0
Ln albumin creatinine ratio	837	0.1	0.9	0.0 to 0.2	720	0.4	1.0	0.3 to 0.5
Adults								
Albumin (mg/L)	211	18.4	118.2	3.3 to 33.5	1243	8.7	21.5	7.5 to 9.9
Creatinine (mmol/L)	211	10.6	5.6	9.6 to 11.6	1243	7.2	5.5	6.8 to 7.6
Albumin creatinine ratio	211	2.0	10.9	0.6 to 3.5	1243	2.0	5.2	1.7 to 2.2
Ln albumin (ln (mg/L))	211	1.9	0.7	1.8 to 2.0	1243	1.9	0.5	1.8 to 1.9
Ln Creatinine (ln (mmol/L))	211	2.2	0.6	2.1 to 2.3	1243	1.6	0.9	1.6 to 1.7
Ln albumin creatinine ratio	211	-0.3	0.9	-0.1 to -0.4	1243	0.2	0.9	0.2 to 0.3

SD: standard deviation; CI: confidence interval; Ln: natural logarithm. \* Data present a right skewed distribution.

**Supplementary tables S2a. Percentile data for urine measures by sex**

Variable	Male							Female						
	P5	P10	P25	P50	P75	P90	P95	P5	P10	P25	P50	P75	P90	P95
Children														
Albumin (mg/L)	4.94	5.04	5.26	5.63	7.62	25.98	51.11	5.04	5.16	5.42	6.74	13.18	50.76	88.45
Creatinine (mmol/L)	2.07	2.99	5.00	8.03	11.31	15.09	17.84	1.56	2.59	4.49	7.65	11.33	15.05	17.27
Albumin creatinine ratio	0.42	0.47	0.61	0.90	1.65	3.55	6.03	0.45	0.52	0.71	1.20	2.65	6.93	10.82
Adults														
Albumin (mg/L)	4.97	5.06	5.22	5.50	6.60	9.13	20.73	4.91	5.01	5.18	5.42	6.38	10.57	17.24
Creatinine (mmol/L)	2.72	3.78	5.95	9.65	14.82	19.05	20.50	1.10	1.48	2.68	5.88	10.34	14.56	17.51
Albumin creatinine ratio	0.29	0.34	0.41	0.66	1.05	1.96	3.28	0.39	0.46	0.63	1.13	2.33	4.22	5.78

**Supplementary tables S2b. Percentile data for urine measures overall for each age cohort**

Variable	P5	P10	P25	P50	P75	P90	P95
Children							
Albumin (mg/L)	4.96	5.09	5.31	5.91	9.83	33.66	68.69
Creatinine (mmol/L)	1.79	2.76	4.74	7.88	11.32	15.05	17.32
Albumin creatinine ratio	0.43	0.48	0.65	1.03	1.97	4.82	8.96
Adults							
Albumin (mg/L)	4.92	5.02	5.19	5.43	6.43	10.51	17.24
Creatinine (mmol/L)	1.16	1.59	3.00	6.41	11.16	15.31	18.60
Albumin creatinine ratio	0.37	0.42	0.60	1.01	2.09	4.02	5.40

**Supplementary table S3a. Mother-child concordance**

Variable	Male			Female		
	N	CC	95% CI	N	CC	95% CI
<b>Pearson's Correlation</b>						
Albumin (mg/L)	588	0.04	-0.05 to 0.12	523	0.07	-0.01 to 0.16
Creatinine (mmol/L)	589	0.23	0.15 to 0.30	523	0.16	0.07 to 0.24
Albumin creatinine ratio	588	0.09	0.01 to 0.17	523	0.08	0.00 to 0.17
<b>Multivariable Linear Regression*</b>	<b>N</b>	<b>RC</b>	<b>P-value</b>	<b>N</b>	<b>CC</b>	<b>95% CI</b>
Albumin (mg/L)	586	0.03	0.7	520	0.12	0.1
Creatinine (mmol/L)	587	0.17	<0.001	520	0.13	0.002
Albumin creatinine ratio	586	0.10	0.01	520	0.09	0.09
<b>Partial correlation coefficient*</b>	<b>N</b>	<b>RC</b>		<b>N</b>	<b>CC</b>	
Albumin (mg/L)	586	0.02		520	0.07	
Creatinine (mmol/L)	587	0.21		520	0.1	
Albumin creatinine ratio	586	0.10		520	0.07	

CC: correlation coefficient; RC: estimated regression coefficient; CI: confidence interval

\* Adjusted for parent age, Index of Relative Socioeconomic Disadvantage, child and parent body mass index, parent and child sex. Albumin, creatinine and albumin creatinine ratio have been log transformed.

**Supplementary table S3b. Father-child concordance**

Variable	Boys			Girls		
	N	CC	95% CI	N	CC	95% CI
<b>Pearson's Correlation</b>						
Albumin (mg/L)	117	0.00	-0.18 to 0.18	72	0.20	-0.04 to 0.41
Creatinine (mmol/L)	117	0.26	0.08 to 0.42	72	0.13	-0.11 to 0.35
Albumin creatinine ratio	117	-0.16	-0.33 to 0.03	72	0.26	0.03 to 0.46
<b>Multivariable Linear Regression*</b>	<b>N</b>	<b>RC</b>	<b>P-value</b>	<b>N</b>	<b>CC</b>	<b>95% CI</b>
Albumin (mg/L)	114	0.05	0.7	72	0.43	0.07
Creatinine (mmol/L)	114	0.31	0.004	72	0.18	0.3
Albumin creatinine ratio	114	-0.18	0.08	72	0.38	0.03
<b>Partial correlation coefficient*</b>	<b>N</b>	<b>RC</b>		<b>N</b>	<b>CC</b>	
Albumin (mg/L)	114	0.04		72	0.22	
Creatinine (mmol/L)	114	0.28		72	0.14	
Albumin creatinine ratio	114	-0.17		72	0.27	

CC: correlation coefficient; RC: estimated regression coefficient; CI: confidence interval.

\* Adjusted for parent age, Index of Relative Socioeconomic Disadvantage, child and parent body mass index, parent and child sex. Albumin, creatinine and albumin creatinine ratio have been log transformed.