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**Chinese Longitudinal Healthy
Longevity Survey (CLHLS),
Biomarkers Datasets, 2009, 2012,
2014**

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P.I. Codebook for 2014 Data

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Specification of the Biomarker indicators in the 2014 CLHLS dataset

Variable	Definition	Normal range	Units
Biochemistry test			
alb	Plasma albumin	35~55	g/L
glu	Plasma glucose	3.9-6.1	mmol/L
bun	Blood Urea Nitrogen	2.5~6.3	mmol/L
crea	Creatine	50~120	mmol/L
cho	Total cholesterol	0~5.18	mmol/L
tg	Triglyceride	0.57-1.71	mmol/L
gsp	Glycated plasma protein	1.08~2.10	mmol/L
crphs	High-sensitive c reactive protein		mg/l
ua	Urea acid	180~440	umol/L
hdlc	High-density lipoprotein cholesterol	1.03~1.55	mmol/L
sod	Superoxide dismutase	42.5 ~76.5	IU/ml
mda	Malonaldehyde		
vd3	25-oh-vitamind3		
vitb12	Vitamin b12		
Urine indicators			
ualb	Urinary microalbumin		mg/l
ucr	Urine creatinine	53~140	umol/L
ualbbyucr	Ualb/ucr ratio		%
Blood routine test			
wbc	White Blood Cell Count	4-10	10 ⁹ /L
lymph	Lymphocyte count	0.8-4.0	10 ⁹ /L
lymph_a	Percentage of lymphocytes	17-50	%
rbc	Red Blood Cell Count	3.5-5.5	10 ¹² /L
hgb	Hemoglobin	110-160	g/L
hct	Erythrocyte Hematocrit	37-50	%
mcv	Erythrocyte Mean Corpuscular Volume	80-100	fL
mch	Erythrocyte Mean Corpuscular Hemoglobin	26-38	pg
mchc	Erythrocyte Mean Corpuscular Hemoglobin Concentration	300-360	g/L
plt	Platelet Count	100-300	10 ⁹ /L
mpv	Mean Platelet Volume	7-13	fL
pdw	Platelet Distribution Width	10-18	fL
pct	Plateletocrit	0.10-0.35	%

Note: please merge the 2014 CLHLS biomarker data with the 2014 CLHLS elderly follow-up dataset based on the sample ID.