

Supplementary Materials

Inverse correlation between plasma 3-chlorotyrosine and pinch strength in chronic kidney disease patients

Ren Liufu MMed¹, Shuhuan Hu MMed¹, Lin Liu MMed¹, Yun Liu MD¹, Chunlei Li MMed¹, Huimin Hu MMed¹, Lin Mi PhD², Rongshao Tan MD, PhD¹

¹*Guangzhou Red Cross Hospital of Jinan University, Guangzhou, Guangdong Province, China*

²*YunKang School of Medicine and Health, Nanfang College, Guangzhou, Guangdong Province, China*

Corresponding Author:

Prof Rongshao Tan, Guangzhou Red Cross Hospital of Jinan University, No. 396, Tongfu Middle Road, Haizhu District, Guangzhou 510220, Guangdong Province, China

Tel: 18928900312

Email: tanrongshao@126.com

Prof Lin Mi, YunKang School of Medicine and Health, Nanfang College, No. 882, Wenquan Avenue, Conghua District, Guangzhou 510970, Guangdong Province, China

Tel: 17322252638

Email: milin@nfc.edu.cn

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Supplementary Table 1. Description of population characteristics grouped by gender

Characteristic	Male group (n=171)	Female group (n=121)	Statistic value	<i>p</i> value
Age (years)	65.6 ± 12.7	72.2 ± 10.3	-4.63	<0.001
CKD stage 5 HD [n (%)]	93 (54.4)	54 (44.6)	5.33	0.021
Sarcopenia [n (%)]	56 (32.7)	13 (10.7)	19.0	<0.001
BMI (kg/m ²)	23.6±3.5	24.9 ± 2.3	-3.16	0.020
Handgrip strength (kg)	22.1 ± 8.7	15.4 ± 6.9	6.87	<0.001
Pinch strength (kg)	6.3 ± 2.1	4.8 ± 1.3	6.04	<0.001
ASMI (kg/m ²)	7.3 (6.6, 8.5)	6.5 (6.0, 7.3)	-5.50	<0.001
Lean body mass (kg)	47.3 (39.8, 56.8)	43.5 (34.0, 52.1)	-2.93	0.003
Phase Angle (°)	4.8 (3.8, 6.2)	5.0 (4.0, 6.1)	-0.089	0.374

ASMI, Appendicular Skeletal Muscle Mass Index

Data are presented as mean ± SD for normally distributed continuous variables and median (25th, 75th percentiles) for non-normally distributed continuous variables.

p <0.05 indicates statistical significance.

Supplementary Table 2. Multiple linear regression analysis of the association between MPO, 3-CT, and sarcopenia-related factors

Variable	MPO		3-CT	
	β (95% CI)	<i>p</i> value	β (95% CI)	<i>p</i> value
Pinch strength (kg)	0.00 (-0.01, 0.02)	0.518	-0.05 (-0.10, -0.00)	0.034
Handgrip strength (kg)	0.03 (-0.02, 0.08)	0.221	-0.02 (-0.24, 0.20)	0.883
ASMI (kg/m ²)	0.00 (-0.01, 0.01)	0.942	0.00 (-0.04, 0.03)	0.843

MPO, Myeloperoxidase; 3-CT, 3-Chlorotyrosine; CKD, Chronic Kidney Disease; HD, Hemodialysis; ASMI, Appendicular Skeletal Muscle Mass Index

The multiple linear regression model was adjusted for age, sex, Hypertension, Diabetes, BMI, and eGFR.

p <0.05 indicates statistical significance.