MATERIALS

Somatometric Data of Chinese

Hisashi SUZUKI¹⁾ and Makiko KOUCHI²⁾

1) *Professor emeritus, The University of Tokyo*

2) *Department of Anthropology, Faculty of Science,
The University of Tokyo*

Abstract Somatometric measurements of North Chinese soldiers were taken by the senior author (H. S.) in North China in 1941. Basic statistics of the measurements and indices are presented.

The basic statistics of the somatometric measurements and indices, based on the data of North Chinese taken by the senior author (H. S.) in North China in 1941, are presented. Only the means for the group from Shansi Province have so far been published (SUZUKI, 1981). Although somatometric researches have been made and the results have been published recently in China, there are not many somatometric data collected in mainland China before WW II. Thus, we believe that the present material will be valuable for comparative purposes.

The subjects were 329 male adult Chinese soldiers from North China. One hundred and sixteen of them were from Honan, 113 from Shansi, and 110 from Hobei Provinces. The age of the subjects ranged from 20 to 38 for those from Honan and Hobei Provinces, and from 20 to 56 for those from Shansi Province.

To obtain basic statistics, outlying values outside the range of $\bar{x} \pm 3$ S. D. were excluded to minimize the effect of mistakes in somatometry (KOUCHI and KOIZUMI, 1985),

and Program Package SAS was used. Calculations were made by the second author (M. K.), using M200H system of the Computer Centre of the University of Tokyo.

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抄 録

中国人生体計測資料

鈴木 尚・河内まき子

本資料は1941年に鈴木が華北にて計測したものであるが、山西省出身者の平均値が SUZUKI (1981) に発表されているのみで、詳しい集計結果は発表されていない。しかし、第二次世界大戦以前の本土の中国人の生体計測データは数少なく、現在中国で行なわれつつある生体計測の結果との比較資料として非常に重要であると思われるので、ここに基礎統計量を発表する。

被験者は成人男子中国人 329 名である。出身地は河南省 116 名、山西省 113 名、河北省 110 名で、すべて

Table 2. Basic statistics for indices of male Chinese.

Index	HONAN			SHANSI			HOBEL			Total		
	N	Mean	S. D.	N	Mean	S. D.	N	Mean	S. D.	N	Mean	S. D.
Relative trunk length	114	31.314	0.889	105	30.903	1.164	0			219	31.117	1.048
Relative upper limb length	116	43.580	1.000	107	43.418	0.974	0			223	43.502	0.989
Relative iliospinal height	116	53.481	1.174	107	53.432	1.278	0			223	53.457	1.222
Relative biacromial breadth	115	22.385	0.851	112	22.848	0.997	0			227	22.613	0.953
Relative chest circumference	115	51.530	2.548	113	51.076	2.730	85	50.849	2.322	314	51.183	2.565
Cephalic index	115	80.603	3.329	113	81.566	4.393	100	81.176	3.926	328	81.109	3.912
Jugomandibular index	116	77.059	4.056	113	77.503	3.646	100	77.328	3.619	329	77.293	3.781
Jugofrontal index	115	68.838	2.575	112	71.665	3.091	99	69.540	2.856	326	70.022	3.089
Morphologic facial index	115	88.284	3.842	113	94.071	5.541	100	91.800	4.821	328	91.350	5.350
Nose breadth/Bizygomatic	116	25.575	1.369	113	26.183	2.109	100	25.598	1.682	329	25.791	1.764
Bientoanthic/Bizygomatic	116	23.910	1.857	111	24.156	1.883	100	24.110	1.826	327	24.054	1.854
Nasal index	114	66.337	5.505	112	61.824	6.024	100	63.193	5.798	326	63.822	6.073
Cephalic modulus*	116	153.586	3.437	113	154.463	4.221	100	155.353	3.372	329	154.425	3.765

* (C1+C3+C15)/3

Table 3. Correlation matrix between somatometric measurements.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1. Height	1.														
2. Trunk length	.688	1.													
3. Upper limb length	.836	.475	1.												
4. Iliospinal height	.858	.371	.838	1.											
5. Biacromial breadth	.443	.244	.422	.387	1.										
6. Chest circumference	.351	.187	.379	.290	.556	1.									
7. Head length	.291	.233	.321	.256	.236	.257	1.								
8. Head breadth	.056	.134	.039	-.068	.217	.124	-.035	1.							
9. Auricular height	.161	.113	.054	.018	.135	.053	.270	.219	1.						
10. Minimum frontal breadth	.168	.278	.191	.077	.153	.089	.259	.379	.267	1.					
11. Bizygomatic breadth	.354	.440	.393	.251	.361	.429	.213	.557	.048	.418	1.				
12. Bigonial breadth	.334	.284	.354	.281	.301	.333	.149	.247	.159	.349	.473	1.			
13. Morphologic face height	.202	.128	.096	.062	.193	.107	.288	.184	.253	.255	.105	.083	1.		
14. Nose height	.029	-.087	-.146	-.116	.057	-.054	.127	.126	.169	.131	-.012	-.063	.689	1.	
15. Nose breadth	.121	.182	.128	.103	.205	.288	.191	.123	.054	.163	.255	.174	-.007	-.027	1.
16. Bientocanthic breadth	.232	.294	.272	.206	.200	.132	.252	.239	.114	.466	.405	.285	.090	.002	.248

華北出身の兵士である。

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集計にあたっては、計測時のミスの影響をできるだけ小さくするため、平均値 ± 3 ×標準偏差を越える値をとり除いた (KOUCHI and KOIZUMI, 1985)。また、統計計算はプログラムパッケージ SAS を用い、東京大学大型計算機センターの M200H システムにより、河内が行なった。

References

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鈴木 尚

東京大学名誉教授 (理学部人類学教室)
〒113 東京都文京区本郷 7-3-1

Hisashi SUZUKI

Professor emeritus of the University of Tokyo,
Department of Anthropology, Faculty of Science,
The University of Tokyo
7-3-1 Hongo, Bunkyo-ku, Tokyo 113, Japan