

Supplementary

Table 1 The prevalence and standardize prevalence of short stature in provinces

Province	China reference		WHO reference	
	N (%)	Age-standardized prevalence, %	N (%)	Age-gender standardized prevalence, %
Beijing	41 (0.62)	0.64	22 (0.33)	0.31
Tianjin	54 (0.75)	0.77	38 (0.53)	0.52
Hebei	93 (1.29)	1.30	77 (1.07)	1.05
Shanxi	222 (3.08)	3.14	152 (2.11)	2.12
Inner Mongolia	134 (1.90)	1.91	94 (1.33)	1.31
Liaoning	79 (1.10)	1.10	60 (0.83)	0.83
Jilin	129 (1.81)	1.82	91 (1.28)	1.29
Heilongjiang	205 (2.86)	2.80	134 (1.87)	1.81
Shanghai	60 (0.84)	0.82	43 (0.60)	0.60
Jiangsu	50 (0.72)	0.74	38 (0.55)	0.57
Zhejiang	93 (1.30)	1.30	83 (1.16)	1.14
Anhui	151 (2.10)	2.10	121 (1.68)	1.67
Fujian	81 (1.13)	1.14	57 (0.79)	0.79
Jiangxi	287 (4.00)	4.06	214 (2.98)	2.97
Shandong	30 (0.42)	0.42	31 (0.43)	0.43
Henan	127 (1.76)	1.79	93 (1.29)	1.28
Hubei	178 (2.53)	2.59	120 (1.70)	1.75
Hunan	345 (4.80)	4.82	281 (3.91)	3.83
Guangdong	355 (4.93)	4.95	276 (3.83)	3.78
Guangxi	472 (6.84)	6.86	380 (5.51)	5.43
Hainan	539 (7.49)	7.40	403 (5.60)	5.45
Chongqing	522 (7.25)	7.37	407 (5.65)	5.61
Sichuan	620 (8.61)	8.66	477 (6.63)	6.52
Guizhou	972 (13.51)	13.61	725 (10.07)	10.04
Yunnan	337 (4.68)	4.64	247 (3.43)	3.38
Shaanxi	454 (6.32)	6.46	320 (4.46)	4.45
Gansu	244 (3.39)	3.49	167 (2.32)	2.34
Qinghai	446 (6.20)	6.31	275 (3.82)	3.83
Ningxia	235 (3.42)	3.45	158 (2.30)	2.30
Xinjiang	292 (4.11)	4.09	196 (2.76)	2.69

Table 2 The results of Anselin Local Moran's I

Province	China reference			WHO reference		
	Z Score	P Value	Type	Z Score	P Value	Type
Zhejiang	1.99	0.008	LL	1.82	0.024	LL
Yunnan	4.23	0.002	HH	4.31	0.002	HH
			Not			Not
Xinjiang	0.87	0.258	Significant	0.60	0.214	Significant
Sichuan	3.48	0.002	HH	3.71	0.002	HH
			Not			Not
Shaanxi	-0.08	0.492	Significant	-0.09	0.47	Significant
Shanxi	2.37	0.008	LL	2.38	0.004	LL
Shandong	3.52	0.002	LL	3.36	0.002	LL
			Not			Not
Qinghai	0.74	0.214	Significant	0.64	0.24	Significant
			Not			Not
Ningxia	-0.20	0.396	Significant	0.01	0.458	Significant
Inner Mongolia	2.17	0.008	LL	2.18	0.004	LL
Liaoning	2.75	0.002	LL	2.67	0.002	LL
			Not			Not
Jiangxi	-0.11	0.466	Significant	0.09	0.444	Significant
Jilin	2.03	0.006	LL	1.97	0.006	LL
Hunan	2.05	0.02	HH	2.47	0.014	HH
			Not			Not
Hubei	-0.39	0.348	Significant	-0.62	0.288	Significant
			Not			Not
Heilongjiang	0.98	0.198	Significant	0.99	0.15	Significant
			Not			Not
Henan	1.12	0.138	Significant	1.07	0.15	Significant
Beijing	2.04	0.002	LL	1.90	0.002	LL
Tianjin	2.27	0.002	LL	2.32	0.002	LL
Hainan	2.69	0.014	HH	3.02	0.01	HH
Guizhou	3.65	0.002	HH	3.91	0.002	HH
Guangxi	3.62	0.002	HH	4.12	0.002	HH
			Not			Not
Gansu	-1.65	0.066	Significant	-1.54	0.088	Significant
			Not			Not
Fujian	0.08	0.494	Significant	-0.18	0.406	Significant

Anhui	2.43	0.002	LL	2.39	0.008	LL
Shanghai	2.52	0.002	LL	2.39	0.002	LL
Chongqing	3.23	0.002	HH	3.45	0.002	HH
Jiangsu	2.97	0.002	LL	2.82	0.002	LL
Guangdong	1.86	0.036	HH	2.19	0.026	HH
Hebei	2.10	0.002	LL	2.14	0.002	LL

Abbreviations: HH: High-High cluster; LL: Low-Low cluster.

Table 3 The results of Hotspot Getis-Ord, Gi*

Province	China reference			WHO reference		
	Z Score	P Value	Gi-Bin	Z Score	P Value	Gi-Bin
Zhejiang	-1.98	0.048	-2	-1.79	0.074	-1
Yunnan	3.94	0.000	3	4.16	0.000	3
Xinjiang	0.73	0.462	0	0.39	0.698	0
Sichuan	3.19	0.001	3	3.12	0.002	3
Shaanxi	0.12	0.905	0	0.17	0.866	0
Shanxi	-2.53	0.011	-2	-2.55	0.011	-2
Shandong	-3.45	0.001	-3	-3.42	0.001	-3
Qinghai	1.23	0.219	0	0.95	0.342	0
Ningxia	-0.40	0.687	0	-0.58	0.561	0
Inner Mongolia	-2.04	0.042	-2	-2.09	0.037	-2
Liaoning	-2.85	0.004	-3	-2.85	0.004	-3
Jiangxi	0.91	0.364	0	1.16	0.248	0
Jilin	-2.56	0.010	-2	-2.55	0.011	-2
Hunan	2.04	0.042	2	2.28	0.022	2
Hubei	-0.05	0.957	0	0.19	0.846	0
Heilongjiang	-1.07	0.283	0	-1.11	0.267	0
Henan	-0.61	0.542	0	-0.47	0.638	0
Beijing	-3.17	0.002	-3	-3.19	0.001	-3
Tianjin	-3.17	0.002	-3	-3.19	0.001	-3
Hainan	2.94	0.003	3	3.12	0.002	3
Guizhou	3.23	0.001	3	3.38	0.001	3
Guangxi	3.21	0.001	3	3.41	0.001	3
Gansu	1.87	0.061	1	1.64	0.102	0
Fujian	0.52	0.602	0	0.78	0.435	0
Anhui	-2.23	0.026	-2	-2.06	0.039	-2
Shanghai	-3.15	0.002	-3	-3.00	0.003	-3
Chongqing	2.45	0.014	2	2.54	0.011	2
Jiangsu	-3.12	0.002	-3	-3.01	0.003	-3
Guangdong	1.97	0.049	2	2.21	0.027	2
Hebei	-3.17	0.002	-3	-3.19	0.001	-3

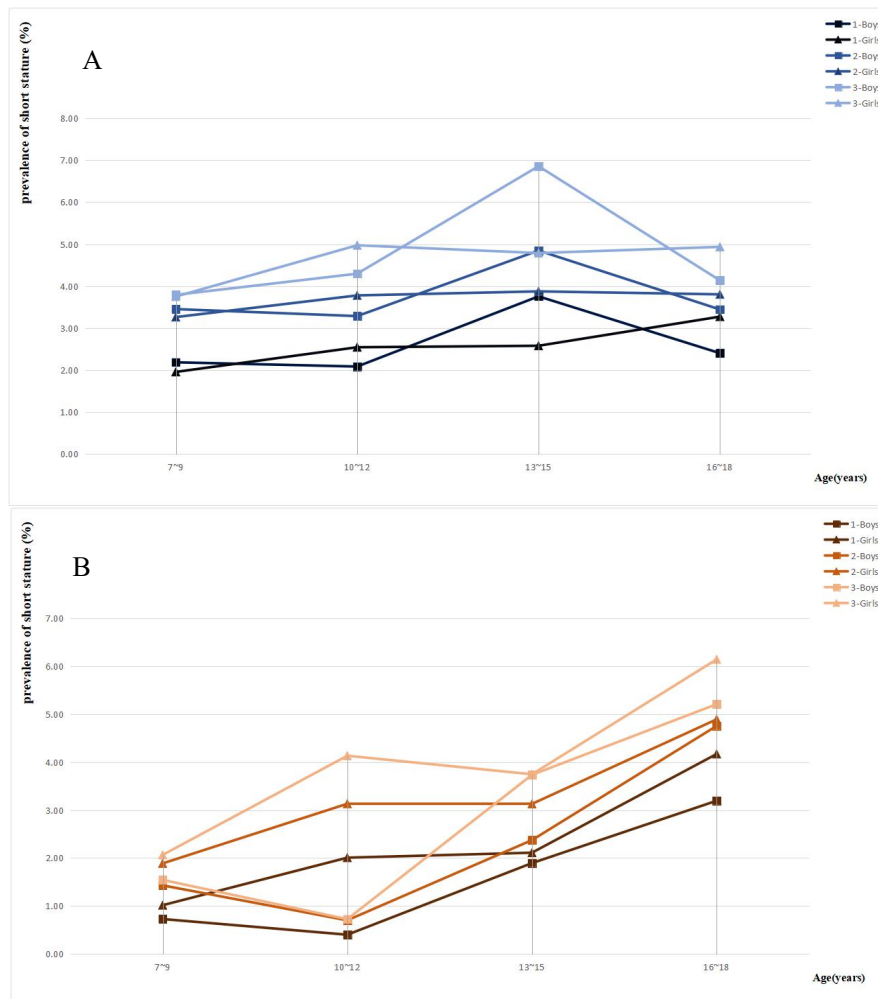


Figure 1 The discrepancy of prevalence between different age groups in different regions. 1 represents developed region; 2 represents Intermediately developed region; 3 represents under-developed region. A is according Chinese growth reference; B is according WHO growth reference.