

## Supplementary information

**Supplemental Table 1.** Volunteers enrolled from each collaborative hospital

Collaborative hospitals	Initially enrolled volunteers	Finally enrolled volunteers	Age Median(min,max)	Sex men(percentage)
Qilu Hospital of Shandong University (Jinan)	103	96	51(18,88)	49(51%)
Qilu Hospital of Shandong University (Qingdao)	86	76	42(20,66)	39(51.3%)
West China Hospital, Sichuan University	65	55	44(18,75)	23(42.8%)
The Second Clinical Medical College of Jinan University	50	45	40(20,65)	21(46.7%)
The Affiliated Sichuan Provincial People's Hospital	44	36	49(18,71)	15(41.7%)
Peking University People's Hospital	40	32	50(20,77)	13(40.6%)
Henan Provincial People's Hospital	41	30	49(20,78)	17(56.7%)
The First Affiliated Hospital of Harbin Medical University	39	33	45(20,73)	12(36.4%)
The First Affiliated Hospital of China Medical University	39	33	46(20,66)	15(45.5%)
Zhongshan Hospital, Fudan University	36	33	49(19,81)	15(45.5%)
Beijing Anzhen Hospital, Capital Medical University	35	25	50(20,69)	11(44%)
Sun Yat-sen Memorial Hospital, Sun Yat-sen University	36	30	46(19,71)	13(43.3%)
The Southwest Hospital of AMU	35	19	51(22,66)	10(52.6%)
Shengjing Hospital of China Medical University	39	24	45(21,67)	11(45.8%)

China-Japan Union hospital of Jilin University	41	39	44(21,68)	16(41%)
First Affiliated Hospital, Shihezi University	30	24	42(19,66)	12(50%)
The First Affiliated Hospital of Guangxi Medical University	30	24	45(23,72)	12(50%)
The Second Hospital of Hebei Medical University	27	19	50(24,69)	10(52.6%)
The First Affiliated Hospital of Xinjiang Medical University	26	17	44(18,65)	6(35.3%)
The Second Affiliated Hospital of Harbin Medical University	24	17	49(20,75)	8(47.1%)
Tangdu Hospital of Air Force Medical University of PLA	45	24	45(19,69)	11(45.8%)
Wuhan Asia Heart Hospital	30	24	46(21,67)	12(50%)
Qingdao Municipal Hospital	30	20	45(19,69)	12(60%)
Yan'an Hospital Affiliated to Kunming Medical University	24	24	47(20,81)	12(50%)
The People's Hospital of Liaoning Province	50	40	50(20,72)	15(37.5%)
Renmin Hospital of Wuhan University	24	18	47(21,73)	8(44.4%)
Fuwai Hospita, Chinese Academy of Medical Sciences	24	5	42(28,58)	2(40%)
Jiangsu Province Hospital	24	4	39(28,56)	2(50%)

The data "age" were expressed as the median age (the minimum age, the maximum age) of the finally enrolled volunteers and the data "sex" were expressed as the number of men in the finally enrolled volunteers in this collaborative hospital (the percentage of men in this collaborative hospital). The order of "collaborative hospitals" were based on the time when each collaborative hospital joined in this study.

Supplemental Figure 1. Flowchart of volunteer selection

