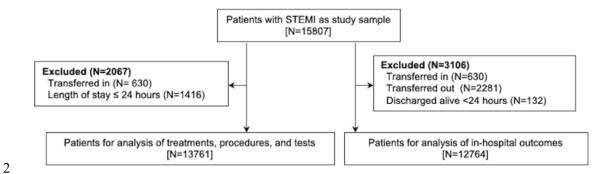
- 1 SUPPLEMENTARY MATERIAL
- 2 Supplementary Figure S1
- $3 \quad \text{ Supplementary Table S1} \text{S5}$
- 4 Supplementary Methods

SUPPLEMENTARY FIGURES AND FIGURE LEGENDS



3 Supplementary Figure S1: Study profile

- 4 AMI = acute myocardial infarction. STEMI = ST-segment elevation myocardial infarction.
- 5 NSTEMI = non-ST-segment elevation myocardial infarction. Number of hospitals of the 16052
- 6 patients in this paper: 166.

1 SUPPLEMENTARY TABLES

2 Supplementary Table S1: STEMI patients as a proportion of all AMI patients

3 (unweighted)

	2011		2015		P
	Relative	Percent (95% CI)	Relative	Percent (95% CI)	
	Frequency		Frequency		
% STEMI among all	7696/933	82.5%(81.7-	8111/1183	68.5%(67.7-	<0.000
AMI	3	83.3)	4	69.3)	1

4

Supplementary Table S2: Pre-hospital delay among different groups of patients.

	2011		2015		p
					value
	Relative	Percent (95%	Frequen	Percent (95%	
	frequency	CI)	cy	CI)	
Long delay*/Among STEMI	3285/6643	49.5%(48.2-	4050/71	56.9%(55.7-	< 0.00
		50.7)	18	58)	01
Long delay*/Among reperfusion	3285/3365	97.6%(97.1-	4050/41	98.5%(98.1-	0.007
ineligible		98.1)	13	98.8)	9
Long delay*/Among no	3285/4874	67.4%(66.1-	4050/52	76.7%(75.6-	< 0.00
reperfusion		68.7)	79	77.9)	01

^{2 *}Long delay is >12 hours between symptom onset and admission

Supplementary Table S3: Reperfusion eligibility and contraindications among all STEMI

2 patients*

	2011		2015		
	Freque	Percent	Freque	Percent	p
	ncy	(95% CI)	ncy	(95% CI)	value
Patients eligible for reperfusion / all patients	3278/6	49.3%(48.1-	3005/7	42.2%(41.1-	< 0.00
with STEMI	643	50.5)	118	43.4)	01
Ineligible patients					
Late presenters (>12h) / all patients with	3285/6	49.5%(48.2-	4050/7	56.9%(55.7-	< 0.00
STEMI	643	50.7)	118	58)	01
Hemorrhage stroke at admission / all patients	6/6643	0.1%(0-0.2)	12/711	0.2%(0.1-	0.2
with STEMI			8	0.3)	
Gastrointestinal bleeding at admission / all	48/664	0.7%(0.5-	53/711	0.7%(0.5-	0.9
patients with STEMI	3	0.9)	8	0.9)	
Hemorrhage stroke history / all patients with	90/664	1.4%(1.1-	93/711	1.3%(1-1.6)	0.8
STEMI	3	1.6)	8		

^{*}all patients with STEMI for analysis of treatment process (n=13761), which is patients with

4 STEMI, after excluding those who were transferred in and had length of stay <24h

Supplementary Table S4: Reperfusion contraindications among reperfusion-ineligible

2 patients

	2011		2015		
	Frequ ency	Percent (95% CI)	Frequ ency	Percent (95% CI)	p valu
	2207/	5 7 10//55	40.50/		e
Late presenters (>12h) / ineligible patients	3285/	67.4%(66.	4050/	76.7%(75.	< 0.0
	4874	1-68.7)	5279	6-77.9)	001
Other contraindications (among reperfusion-inel	igible pat	ients and excl	uding late	e presenters)	
Hemorrhage stroke at admission / (ineligible	2/158	0.1%(0-	4/122	0.3%(0-	0.25
patients – late presenters)	9	0.3)	9	0.6)	43
Gastrointestinal bleeding at admission /	14/15	0.9%(0.4-	12/12	1%(0.4-	0.79
(ineligible patients – late presenters)	89	1.3)	29	1.5)	29
Hemorrhage stroke history / (ineligible patients –	35/15	2.2%(1.5-	27/12	2.2%(1.4-	0.99
late presenters)	89	2.9)	29	3)	18

1 Supplementary Table S5: Unadjusted STEMI outcomes

	2011	2015	P
Length of stay	11(7-15)	10(7-13)	< 0.0001
In-hospital death	496(7.7%[7.1-8.3])	499(7.7%[7.1-8.3])	0.9
Treatment withdrawal	224(3.5%[3.1-3.9])	321(5%[4.5-5.5])	< 0.0001

SUPPLEMENTARY METHODS

2 China PEACE-Retrospective AMI Study Sampling Design

- 3 We intended study hospitals to reflect diverse sites of care in China. As hospital volumes and
- 4 clinical capacities differ between urban and rural areas as well among the 3 official economic-
- 5 geographic regions of China, we separately identified hospitals in 5 strata: Eastern-rural, Central-
- 6 rural, Western-rural, Eastern-urban, and Central/Western-urban regions. We considered an area
- 7 urban if it is part of a downtown or suburban area within a direct-controlled municipality
- 8 (Beijing, Tianjin, Shanghai, Chongqing) or 1 of 283 prefectural-level cities. We considered
- 9 surrounding county-level regions, including counties and county-level cities, to be rural. Within
- this framework, China is composed of 287 urban regions and 2010 rural regions. We considered
- 11 Central and Western urban regions together given their similar per capita income and health
- 12 services capacity as shown below:

13 Population, Economy, and Hospitals in Different Geographic Strata of Mainland China

	Eastern	Central	Western
Rural Setting			
Population*	256,899,053	205,567,264	222,491,738
Income per capita (RMB) [†]	9,256	6,351	5,604
Level of central hospital			
Tertiary (%)	33 (5%)	12 (2%)	30 (3%)
Secondary (%)	586 (92%)	462 (92%)	739 (85%)
Primary (%)	20 (3%)	26 (5%)	102 (12%)
Total	639	500	871

Urban Setting			_
Population*	336,364,491	150,467,917	144,803,916
Income per capita (RMB) [†]	21,547	15,539	15,523
Median # of hospitals per urban area (IQR)‡			
Tertiary	3 (2-6)	2 (1-3)	2 (1-4)
Secondary	5 (3-8)	4 (3-6)	3 (2-6)

^{*} Statistics in 2009 from the National Bureau of Statistics of China

- 2 (http://www.stats.gov.cn/tjsj/ndsj/2010/indexch.htm)
- [†] Statistics in 2009 from the National Bureau of Statistics of China
- 4 (http://www.stats.gov.cn/tjsj/ndsj/2010/indexch.htm)
- 5 [‡] Median (interquartile range)

7

8

9

10

11

12

13

14

15

16

17

We identified cases for study inclusion using a stratified 2-stage cluster sampling design. In the first stage, we identified hospitals using a simple random sampling procedure within each of the 5 study strata. In the 3 rural strata, the sampling framework consisted of the central hospital in each of the predefined rural regions (2010 central hospitals in 2010 rural regions). Within each rural region, the central hospital is the largest general hospital with the greatest clinical capacity for treating acute illness. In each of the 2 urban strata, the sampling framework consisted of the highest-level hospitals in each of the predefined urban regions (833 hospitals in 287 urban regions). Hospital level is officially defined by the Chinese government based on clinical resource capacity. For example, secondary hospitals have at least 100 inpatient beds and the capacity to provide acute medical care and preventive care services to populations of at least

100,000, while tertiary hospitals are large referral centers in provincial capitals and major cities.

7

13

15

19

20

1 We excluded military hospitals prison hospitals, specialized hospitals without a cardiovascular

2 disease division, and traditional Chinese medicine hospitals. Since the majority of hospitals in

China are publicly owned and administered, hospital closure is rare, and hospital number has

4 remained stable over the past decade. We therefore decided to select representative hospitals

from 2011 to reflect current practices and trace this cohort backward to 2006 and 2001 to

6 describe temporal trends.

8 In the second stage, we drew cases based on the local hospital database for patients with acute

9 myocardial infarction at each sampled hospital. We ordered each hospital's list of eligible cases

10 by date of admission and selected cases using systematic random sampling with equal

probabilities. We selected a case at random, after which we selected every k^{th} casebased on

sample size requirements, where k is the sampling interval.

14 In each of the 5 study strata, we determined the sample size required to achieve a 2% precision

for describing the primary outcome, in-hospital mortality, which we had estimated to be

approximately 9% in urban hospitals and 7% in rural county-level hospitals.

17 The following Equation 1 can be used to define the sample size required (n) for a given

proportion of the primary outcome (P), desired precision (d), and specific choice of α .

21 Equation1:

 $n = \frac{z_{\alpha}^2 \cdot P(1-P)}{d^2}$

2

6

7

10

11

13

14

17

18

3 However, because random cases sampled within the same hospital are likely to be more similar

4 to one another than to random cases from another hospital, the effective sample size is reduced.

5 Consequently, a design effect adjustment should be introduced as follows:

8 Equation 2:

$$n = \frac{z_{\alpha}^2 \cdot P(1-P)}{d^2} \times deff$$

12 Where the design effect (*deff*) is given by

15 Equation3:

$$deff = 1 + \delta (\overline{n'} - 1)$$

where δ is the intraclass correlation for the statistic in question and \overline{n}' is the average number of

sampled cases within each hospital. \overline{n} is also known as the cluster size.

With this framework in mind, to achieve a precision of 2% with an α of 0.05 in each of the 3

rural strata, assuming an intraclass correlation of 0.02 and design effect of 1.8, we would need to

1 sample 1150 medical records among hospitals with an average cluster size of 40. Analogously, to 2 achieve a precision of 2% with an α of 0.05 in each of the 2 urban strata, assuming an intraclass 3 correlation of 0.02 and design effect of 2.2, we would need to sample 1750 medical records 4 among hospitals with an average cluster size of 60. These cluster sizes in rural and urban settings 5 appeared reasonable based upon our previous survey of treatment for acute coronary syndromes 6 at more than 1000 hospitals in 2010, which demonstrated that the median volume of 7 hospitalization for acute myocardial infarction was approximately 180 cases per year in urban 8 hospitals and 95 cases per year in rural county-level hospitals. Assuming an anticipated 9 participation rate of 85% among selected hospitals, we approached 35 hospitals for participation 10 in each stratum for a total of 175 hospitals (70 urban and 105 rural). We doubled cluster sizes for 11 2011 and 2015 to improve precision in the description of hospital-level treatment patterns and 12 outcomes. 13 14

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

21

PCI-capable hospital).

Ideal candidates for the treatments

Patients who were transferred in or whose lengths of hospital stay did not exceed 24 hours were excluded for all the following treatments. For the reperfusion therapy, we included patients who were admitted within 12 hours of symptom onset and did not receive reperfusion therapy before hospital presentation. Then we excluded patients with any contraindications (history of hemorrhagic stroke, active bleeding at presentation, or any other physician documented contraindications for fibrinolytic therapy if the patient was treated in non-percutaneous coronary intervention (PCI) capable hospital; allergy to contrast agents or any other documented contraindication to PCI if the patient was treated in

- For aspirin, we excluded patients with any contraindications for aspirin (allergy to aspirin, active bleeding on admission, history of hemorrhagic stroke, or other documented contraindications).
- 17 For clopidogrel, we excluded patients who participated in the ClOpidogrel and Metoprolol in 18 Myocardial Infarction Trial (COMMIT) or patients with any contraindications for clopidogrel 19 (allergy to clopidogrel, active bleeding on admission, history of hemorrhagic stroke, or other 20 documented contraindications).
- 22 For beta-blockers, we excluded patients who participated in the ClOpidogrel and Metoprolol in 23
- Myocardial Infarction Trial (COMMIT) or patients with any contraindications for beta-blockers

11

- 1 (allergy to beta-blockers, cardiogenic shock on admission, heart failure on admission, second or
- 2 third degree atrioventricular block with no pacemaker implanted, systolic blood pressure
- 3 <100mmHg on admission, bradycardia [heart rate <60 beats/min] on admission without taking a
- 4 beta-blocker, or other documented contraindications).
- 6 For angiotensin converting enzyme (ACE) inhibitors or angiotensin receptor blockers (ARB), we
- 7 excluded patients with any contraindications for ACE inhibitors (allergy to ACE inhibitors,
- 8 hyperkalemia (serum potassium
- 9 >5.5 mmol/L during hospitalization), creatinine >265 umol/L during hospitalization, pregnancy
- or breast feeding, or other documented contraindications).
- 12 For statins, we excluded patients who were allergy to statins.

11

- 1 The seven categories of traditional Chinese medicines commonly used in China among
- 2 patients with acute myocardial infarction
- 4 (1) Salvia miltiorrhiza/Red Ginseng/Ginseng (e.g. Danshen dripping pill, Tanshinone)*
- 5 (2) Gingko (e.g. Ginkgo biloba, Ginkgo biloba extract)*
- 6 (3) Panax notoginseng (e.g. Panax notoginseng saponins, Xueshuantong injection)*
- 7 (4) Hirudo (e.g. Lepirudin, Shuxuetong injection)*
- 8 (5) Erigeron Breviscapus (e.g. Erigeron breviscapus injection, Breviscapinun)*
- 9 (6) Lipid lowing agents (e.g. Xuezhikang, Taizhian)
- 10 (7) Other (e.g. Puerarin, Suxiao jiuxin pills, Kyushin pills)
- * based on the main functional ingredient.

2

6

9

17

23

Definition of in-hospital complications

3 1) Re-infarction

- 4 Indicate if there is physician documentation of recurrent myocardial infarction during
- 5 hospitalization.
- 7 2) Cardiogenic shock
- 8 Indicate if there is physician documentation of cardiogenic shock during hospitalization.
- 10 3) Ischemic stroke
- 11 Indicate if there are physician documentations of new-onset ischemia stroke and stroke-related
- 12 symptoms during hospitalization. The stroke-related symptoms include: trouble walking/loss of
- balance/incoordination, one-sided numbness or hemi-anesthesia, one-sided facial numbness or
- 14 hemi-anesthesia, mouth askew and drooling, dysarthria or slurred speech, loss of vision or
- blurred version in one or both eyes, dizziness with vomiting, severe headache and vomiting,
- unconsciousness, and hyperspasmia.
- 18 4) Congestive heart failure
- 19 Indicate if there is physician documentation of heart failure during hospital stay. This include
- 20 those without a history of heart failure but develop heart failure during hospitalization, and those
- 21 with a history of heart failure as a chronic comorbidity and develop worsening heart failure
- during hospitalization.

- China PEACE-Retrospective AMI Study Site Investigators by Hospital
- 2 All collaborating hospitals accepted the central ethics approval except for five hospitals (bold
- *and italicized*), which obtained local approval from internal ethics committees.
- 5 Aba Tibetan and Qiang Autonomous Prefecture People's Hospital, ShipingWeng, ShuyingXie;
- 6 Affiliated Hospital of Guiyang Medical College, Lirong Wu, Jiulin Chen; Affiliated Hospital of
- 7 Hainan Medical College, Tianfa Li, Jun Wang; Affiliated Zhongshan Hospital of Dalian
- 8 University, Qin Yu, Xiaofei Li; Alxa League Central Hospital, Zhong Li, ShiguoHao, Yuzhen
- 9 Zhang, Xuemei Wu; Baiquan County People's Hospital, Yachen Zhang, Zhifeng Liu; Biyang
- 10 People's Hospital, Zhongxin Wang, HaoJia; Bortala Mongol Autonomous Prefecture People's
- Hospital, Bayin Bate, BadengQiqige; Changda Hospital Of Anshan, Xiang Jin, Ting Cai;
- 12 Chengwu County People's Hospital, Fengqin Liu, Dayong Xu; Chenxi County People's Hospital,
- 13 Xuejin He, Shui Yang; Chongren County People's Hospital, Chun Yuan, Jiping Wang; County
- 14 People's Hospital of Jinning, LihuaGu, Lin Li, Shijiao Chen; Dalian Municipal Central Hospital,
- 15 YongchaoZhi, Lili Sun; Dao County People's Hospital, Shengcheng Zhou, Lingjiao Jin; Daofu
- 16 County People's Hospital, Yong Leng, Liangchuan Zhang, Tianyun Deng; Dingyuan County
- 17 People's Hospital of Anhui Province, Yuanjin Wang, Wenhua Zhang, Xinmin Ma; Dongyang
- 18 People's Hospital, Weimin Li, Liang Lu, Xuan Ge; Dulong and Nu Autonomous County People's
- 19 Hospital of Gongshan, Xiaoping Wu, Yanming He; Dunhua City Hospital of Jilin Province,
- 20 FanjuMeng, Jia Li; Fenghuang County People's Hospital, Dexi Liao, Guangyong Liu, Wen Qin;
- 21 Fengshan County People's Hospital, Wen Long, Xiangwen Chen; Fourth Hospital of Baotou
- 22 City, Baohong Zhang, Yonghou Yin, Bin Tian; Fourth People's Hospital of Zigong City, Yong
- 23 Yi, Chaoyong Wu; Fugu County People's Hospital of Shaanxi Province, Baoqi Liu, Zhihui Zhao,

- 1 Haiming Li; Fujian Provincial Hospital, YansongGuo, Xinjing Chen; Fuling Center Hospital of
- 2 Chongqing City, Liquan Xiang, Lin Ning; Gannan County People's Hospital, Mei Chen, Xin Jin,
- 3 Guiling Li; General Hospital of the Yangtze River Shipping, Xiuqi Li, Xing'an Wu; Gongcheng
- 4 Yao Autonomous County People's Hospital, Congjun Tan, Mingfang Feng, Meili Wang;
- 5 Guangchang County People's Hospital, Liangfa Wen, Xiang Fu, QunxingXie; Guilin People's
- 6 Hospital, Wei Zhang, Yanni Zhuang, Hua Lu; Guiping People's Hospital, Jiaqian Lu, Yu Huang;
- 7 Haerbin 242 Hospital, Yin Zhou, Qiuling Hu; Haiyan People's Hospital, Chunhui Xiao, Xiaoli
- 8 Hu; Heling Ge Er County People's Hospital, Yongshuan Wu, Qiuli Wang; Helong Municipal
- 9 People's Hospital, Youlin Xu, Xuefei Yu; Henan Provincial People's Hospital, Chuanyu Gao,
- 10 Jianhong Zhang, You Zhang; Heze Municipal Hospital, WentangNiu, Xiaolei Ma, Yong Wang;
- 11 HGKY Group Company General Hospital, Xiaowen Pan, Yanlong Liu; *Hua Xin Hospital (First*
- 12 Hospital of Tsinghua University), Lifu Miao, Yanping Yin, Zhiying Zhang; Huairen People's
- Hospital, Shutang Feng; Huayin People's Hospital, Aiping Wang, Jiangli Zhang, Feipeng Li;
- Huaying People's Hospital, Hong Wang; Hunchun Hospital, Lijun Yu, Xinxin Zhao; Huizhou
- 15 Municipal Central Hospital, Yuansheng Shen, Zhiming Li, Lizhen He; Hunan Province
- 16 Mawangdui Hospital, ZhiyiRong, Wei Luo; Ji'an Municipal Central People's hospital, Xueqiao
- 17 Wang; Jianghua Yao Autonomous County People's Hospital, Rongjun Wan, Jianglin Tang,
- 18 Guanghan Wu; Jiangsu Haimen People's Hospital, Jie Wu, Bin Xu; Jiangsi Provincial People's
- 19 Hospital, Qing Huang, Xiaohe Wu; Jiangzi County People's Hospital, Sang Ge, Pian Pu,
- 20 PingcuoDuoji; Jilin Province People's Hospital, Hui Dai, Yuming Du, Wei Guo; Jilin Integrated
- 21 Traditional Chinese & Western Medicine Hospital, Jilin Province, Jianping Shi; Jinghai County
- 22 Hospital, Peihua Zhao, Jingsheng Sun; Jingxi County People's Hospital, Hongxiang Li, Wen
- 23 Liang; Jingxing County Hospital, Zhiwen Dong, Zhenhai Zhao; Jingzhou Central Hospital, Xin

- 1 Li, Qin Xu; Jiuquan City People's Hospital, Yaofeng Yuan, Zhirong Li; Jixi People's Hospital of
- 2 The Jixi Municipal People's Hospital Medical Group, Jinbo Gao; Jize County Hospital,
- 3 Qiu'eGuo; Kangbao County People's Hospital, Ruiqing Zhao, Guangjun Song; Keshiketengqi
- 4 Hospital of Chifeng City, Lize Wang, Haiyun Song; Lanping Bai and Pumi Autonomous County
- 5 People's Hospital, Jinwen He, Jinming He; Laoting County Hospital, Keyong Shang, Changjiang
- 6 Liu, Kuituan Xi; Liaoyang Central Hospital, Rihui Liu, Peng Guo; Liaoyuan Central Hospital,
- 7 ChaoyangGuo, Xiangjun Liu, Rujun Zhao, Zeyong Yu; Lindian County Hospital, Wenzhou Li,
- 8 Xudong Jing, Huanling Wang; Linxiang People's Hospital, Xiyuan Zhao, Chao Zhang, Long
- 9 Chen; Liujiang County People's Hospital, Meifa Wei, Yan Liu, Shengde Chen; Longyan First
- 10 Hospital, Kaihong Chen, Yong Fang, Ying Liao; Luancheng County Hospital, Junli Wang,
- 11 Tianyu Liu, Suzhe Cheng; Lucheng People's Hospital, Yunke Zhou, XiaoxiaNiu, Huifang Cao;
- 12 Luchuan County People's Hospital, Zebin Feng, Min Feng; Luxi County People's Hospital,
- 13 Feilong Duan, Haiming Yi; Luyi County People's Hospital, Yuanxun Xu, AnranGuo; Macheng
- 14 People's Hospital, Xianshun Zhou, HongzhuanCai, Peng Zheng; Mengcheng First People's
- 15 Hospital, GaofengGuo; MenglianLahudaiwa autonomous counties People's Hospital, Xiang Li;
- 16 Min County People's Hospital, MinwuBao, Yuhong Liu; Nanjing First Hospital, Shaoliang Chen,
- 17 HaiboJia, Hongjuan Peng; Nan'an Hospital, Duanping Dai, Shaoxiong Hong; Nantong Third
- 18 People's Hospital, Song Chen, Dongya Zhang, Ying Wang; Nanyang Central Hospital, Yudong
- 19 Li, Jianbu Gao, Shouzhong Yang; Ningwu County People's Hospital, Junhu An; Peking
- 20 University People's Hospital, Chenyang Shen, Yunfeng Liu; Peking University Shenzhen
- 21 Hospital, Chun Wu, Huan Qu, Saiyong Chen; People's Hospital of Jingyu, Yuhui Lin, Dehai
- 22 Jiao; People's Hospital of Yueqing City, Manhong Wang, Qiu Wang; Pianguan County People's
- Hospital, YingliangXue, Ruijun Zhang; Puding County People's Hospital, Cheng Yuan, Lei Wu;

- 1 Qinghai Red Cross Hospital, Jianqing Zhang, Chunmei Wei, Yanmei Shen; Qinshui County
- 2 People's Hospital, Hehua Zhang, Hongmei Pan, Yong Gao; Qinyang People's Hospital, Xiaowen
- 3 Ma, Yanli Liang, Tianbiao Wang; Queshan County People's Hospital, Daguo Zhao; Quzhou
- 4 People's Hospital, XiaomingTu, Zhenyan Gao; Rongjiang County People's Hospital, Fangning
- 5 Wang, Qiang Yang; Rudong County People's Hospital, Xiaoping Kang, Jianbin Fang, Dongmei
- 6 Liu; Ruyang County People's Hospital, Chengning Shen, Mengfei Li; Shangluo Central Hospital,
- 7 Yingmin Guan, Wenfeng Wang, Ting Xiao; ShangqiuChangzheng People's Hospital, Qian
- 8 Wang; Shaoyang County People's Hospital, Fengyun Jiang, Kaiyou Wu; Shengsi People's
- 9 Hospital, Songguo Wang; Shenyang Weikang Hospital, Xujie Fu, Shu Zhang, Lifang Gao;
- 10 ShougangShuicheng Iron & Steel (Group) Co., Ltd. General Hospital, Min Zhang, Kai Fu,
- 11 XiaojingDuan; Shuangshan Hospital Of Anshan, Rui Xiao, Ruixia Wu, Bin Li; Siziwang County
- 12 People's Hospital, Hongtu Zhang, Yuerong Ma, Zhonghui Cao; SunanYugur Autonomous
- 13 County People's Hospital, Zhansheng Ba, Wanhai Fu; Taizhou Hospital of Zhejiang Province,
- 14 Jianjun Jiang, YafeiMi, Weiwei Zhou; The Affiliated Hospital of Beihua University, Feng Sun,
- 15 Qi Zhang, Shiyu Zheng; The Fifth People's Hospital of Dalian, Jing Zhang, Yang Zhong; The
- 16 First Affiliated Hospital of Hebei North University, Fangjiang Li, Xiaoyuan Wang; The First
- 17 Affiliated Hospital of Henan University of Science & Technology, Pingshuan Dong, Laijing Du,
- Wei Liu; The First Affiliated Hospital Of Jia Mu Si University, Zhaofa He, Meihua Jin; The First
- 19 Hospital of Fuzhou City, Ting Jiang, Zhuoyan Chen; The First Hospital of Xi'an, Manli Cheng,
- 20 YuqiangJi; The First People's Hospital of Danzhou, Youhua Zhou, Jvyuan Li; The First People's
- 21 Hospital of Guangzhou, Yizhi Pan, Jian Liu; The First People's Hospital of Guangyuan,
- 22 Tianxun Wang, Ping Yang; The Fourth People's Hospital of Shangqiu Shi, Guiyu Huang,
- 23 JianjunPan,QingliangCai,Qianying Wang; The General Hospital of Yongzhou, Hunan Province,

- 1 MingliLv; The people's hospital of Wuchuan, Yuanming Yi, Xuelian Deng; The People's
- 2 Hospital of Yuanling, Wenhua Chen, RongCai; The People's Hospital of Zhijiang City, Bing
- 3 Zhang; The Second Affiliated Hospital of Harbin Medical University, Bo Yu, Yousheng Xu,
- 4 Zhengqiu Wang; The Second Affiliated Hospital of Kunming Medical University, Jun Shu, Ge
- 5 Zhang, Kai Li; The Second Central Hospital of Baoding City, Guang Ma, PuxiaSuo; The Second
- 6 People's Hospital of Liaoyuan City, Aimin Zhang, Yongfen Kang; *Tianjin Medical University*
- 7 General Hospital, Zheng Wan, Yuemin Sun, Bo Bian; Tibet Autonomous Region People's
- 8 Hospital, Xuejun Hu, DawaCiren; Tongchuan Mining Bureau Central Hospital, GuojiongJia,
- 9 Jieli Pan; Tongliang County People's Hospital, Guofu Li, Hongliang Zhang, Longliang Zhan;
- 10 Tongliao City Horqin District First People's Hospital, Junping Fang, Xinli Yu; Ulanqab Central
- Hospital, Dacheng Wang, Dajun Liu, Xinhong Cao, Wencheng County People's Hospital, Yi
- 12 Tian, HaishengZhu, Wanchuan Liu; Wuhai People's Hospital, Zhaohai Zhou, Lei Shi; Wuhu
- 13 Second People's Hospital, Wuwang Fang, Manxin Chen; Wulate County People's
- Hospital, FuqinHan, JianyeFu, Yunmei Wang; Wuqiang County People's Hospital, Binglu Liu,
- 15 YanliangZhang,Xiupin Yuan; Wuyishan Municipal Hospital, Qingfei Lin, Yun Chen; Xiangtan
- 16 County People's Hospital, Yuliang Zhu, ZhiqiangCai; Xing County People's Hospital, Xingping
- 17 Li, LirongAo; Xingshan County People's Hospital, Shubing Wu, Hui Zhang; Xinmi First
- 18 People's Hospital, Fusheng Zhao, Guangming Yang; Xinshao County People's Hospital, Renfei
- 19 Liu, Wenwei Ai; Xiuwu County People's Hospital, JianbaoChang, Haijie Zhao; Xuanhan County
- 20 People's Hospital, Oijun Ran, Xuan Ma; Xupu County People's Hospital, Shijun Jiang, Xiaochun
- 21 Shu; Yanggao County People's Hospital, Zhiru Peng, Yan Han; Yanqing County Hospital,
- 22 Jianbin Wang, Li Yang; Ying County People's Hospital, Yu Shen, Xingcun Shang; Yitong
- 23 Manchu Autonomous County First People's Hospital, Haifeng Wang; Yongxing County People's

- 1 Hospital, Hongyan Li, Zhisong Liao, Yang Cao; Yuanzhou District People's Hospital of Guyuan
- 2 City, Xiaoping Gao, MeiyingCai, Lining You; Yuncheng Central Hospital, Xuexin Li, Shuqin
- 3 Li, Yingjia Li; Yunlong County People's Hospital, Jianxun Yang, Song Ai, Jianfei Ma; Yuyao
- 4 People's Hospital, Lailin Deng; ZhangjiachuanHui Autonomous County First People's Hospital,
- 5 Keyu Wang, Shitang Gao, Jian Guan; Zhouning County Hospital, Banghua He, Youyi Lu;
- 6 Zhuoni County People's Hospital, Weirong Yang, Hong Li; Zhuozi County People's Hospital,
- 7 Zhizhong Zhang, Xiaohong Chi; Zuoyun County People's Hospital, Ru Duan, Guangli Wang.

8

China PEACE Study Consultants

- 2 Study Consultants: Paul S. Chan, MD, MSc, Jersey Chen, MD, MPH, David J. Cohen, MD,
- 3 MSc, Nihar R. Desai, MD, MPH, Kumar Dharmarajan MD, MBA, Mikhail N. Kosiborod, MD,
- 4 Jing Li, MD, PhD, Xi Li, MD, PhD, Zhenqiu Lin, PhD, Frederick A. Masoudi, MD, MSPH,
- 5 Jennifer Mattera, DrPH, MPH, Brahmajee K. Nallamothu, MD, MPH, Khurram Nasir, MD,
- 6 MPH, Sharon-Lise T. Normand, PhD, Joseph S. Ross, MD MHS, John A. Spertus, MD, MPH,
- 7 Henry H. Ting, MD, Xiao Xu, PhD
- 9 St. Luke's Mid America Heart Institute/University of Missouri Kansas City (PSC, DJC, MNK,
- 10 JAS), Kansas City, Missouri, United States; Kaiser Permanente (JC), Mid-Atlantic Permanente
- 11 Research Institute, Rockville, Maryland, United States; Center for Outcomes Research and
- 12 Evaluation (NRD, KD, ZL, JM, JSR, XX), Yale-New Haven Hospital, New Haven, Connecticut,
- 13 United States; Division of Cardiology (KD), Department of Internal Medicine, Columbia
- 14 University Medical Center, New York, New York, United States; State Key Laboratory of
- 15 Cardiovascular Disease (JL, XL), China Oxford Centre for International Health Research, Fuwai
- 16 Hospital, National Center for Cardiovascular Diseases, Chinese Academy of Medical Sciences
- 17 and Peking Union Medical College, Beijing, People's Republic of China; Division of Cardiology
- 18 (FAM), University of Colorado Anschutz Medical Campus, Aurora, Colorado, United States;
- 19 Veterans Affairs Health Services Research and Development Center of Excellence (BKN),
- 20 Veterans Affairs Ann Arbor Healthcare System, Ann Arbor, Michigan, United States;
- 21 Department of Internal Medicine (BKN) and Center for Healthcare Outcomes and Policy (BKN),
- 22 University of Michigan, Ann Arbor, Michigan, United States; Research Director, Center for
- 23 Prevention and Wellness (KN), Baptist Health South Florida, Miami, Florida, United States;

- 1 Department of Biostatistics (S-LTN), Harvard School of Public Health, Boston, Massachusetts,
- 2 United States; Department of Health Care Policy (S-LTN), Harvard Medical School, Boston,
- 3 Massachusetts, United States; Section of General Internal Medicine and the Robert Wood
- 4 Johnson Clinical Scholars Program (JSR), Department of Internal Medicine, Yale University
- 5 School of Medicine, Connecticut, United States; Division of Cardiovascular Diseases (HHT) and
- 6 Knowledge and Evaluation Research Unit (HHT), Mayo Clinic College of Medicine, Rochester,
- 7 Minnesota. United States; Department of Obstetrics, Gynecology, and Reproductive Sciences
- 8 (XX), Yale School of Medicine, New Haven, Connecticut, United States