

Table S1. Distribution of ACS patients undergoing PCI in participated hospitals during 2011-2014

Hospital	Region	2011	2012	2013	2014
General Hospital of Shenyang Military Region	Northeast	3118	4198	5597	6103
The 463 Hospital	Northeast	224	332	250	374
The 210 Hospital	Northeast	190	197	211	207
The 313 Hospital	Northeast	130	237	305	277
The 202 Hospital	Northeast	115	139	111	154
The 208 Hospital	Northeast	80	113	77	48
The 211 Hospital	Northeast	59	73	71	50
The 201 Hospital	Northeast	7	33	20	10
The 205 Hospital	Northeast	1	25	47	61
General Hospital of Jilin PAP Corps	Northeast	0	0	2	0
General Hospital of PLA	North China	2094	1993	1782	2562
The Affiliated Hospital of PAP College of Logistics	North China	1602	1324	1355	1391
Bethune International Peace Hospital	North China	927	855	1009	950
General Hospital of PAP	North China	859	753	757	974
The 252 Hospital	North China	675	749	848	933
General Hospital of Navy	North China	482	667	623	791
The 304 Hospital	North China	398	502	263	254
The 254 Hospital	North China	391	166	158	258
The 309 Hospital	North China	312	376	435	295
The General Hospital of Beijing Military Region	North China	240	372	408	488
The Second Artillery General Hospital	North China	236	188	215	181
General Hospital of Air Force	North China	218	221	293	407
The 305 Hospital	North China	213	257	429	492
The 306 Hospital	North China	192	367	386	368
The 307 Hospital	North China	125	137	126	102
The 264 Hospital	North China	75	101	142	177
The 261 Hospital	North China	68	59	43	48
The 251 Hospital	North China	49	5	97	0
The 263 Hospital	North China	0	0	21	48
The 285 Hospital	North China	0	59	100	67
The 464 Hospital	North China	0	86	139	70
The Second Hospital of Beijing PAP Corps	North China	0	34	13	30
General Hospital of Beijing PAP Corps	North China	0	35	37	33
General Hospital of Hebei PAP Corps	North China	0	89	56	5
General Hospital of Shanxi PAP Corps	North China	0	236	179	162
Changhai Hospital of SMMU	East China	750	1206	1320	1828
General Hospital of Nanjing Military Region	East China	581	621	470	486
General Hospital of Jinan Military Region	East China	472	393	267	335
Changzheng Hospital of SMMU	East China	337	362	499	375
The 88 Hospital	East China	209	193	168	135
The 148 Hospital	East China	186	203	166	165

The 105 Hospital	East China	164	70	64	152
The 401 Hospital	East China	162	144	92	33
The 97 Hospital	East China	162	197	260	194
Fuzhou General Hospital of PLA	East China	158	196	344	272
Anqing Hospital of Navy	East China	91	62	59	74
The 101 Hospital	East China	71	96	107	114
The 89 Hospital	East China	67	46	68	62
The 107 Hospital	East China	65	113	181	40
The 171 Hospital	East China	59	70	105	72
The 404 Hospital	East China	50	98	73	78
The 94 Hospital	East China	41	68	84	116
The 411 Hospital	East China	37	38	53	64
The 174 Hospital	East China	24	120	91	88
The 180 Hospital	East China	19	65	122	136
The 85 Hospital	East China	11	45	52	24
The 98 Hospital	East China	10	9	10	42
The 117 Hospital	East China	9	18	16	20
General Hospital of Zhejiang PAP Corps	East China	7	71	70	47
The 123 Hospital	East China	0	42	70	54
The 175 Hospital	East China	0	18	117	91
The 456 Hospital	East China	0	6	6	10
The 92 Hospital	East China	0	49	102	112
General Hospital of Fujian PAP Corps	East China	0	11	17	22
General Hospital of Guangzhou Military Region	South China	685	830	830	713
The 181 Hospital	South China	54	55	56	44
The 303 Hospital	South China	49	7	48	62
The 458 Hospital	South China	32	32	97	78
The 163 Hospital	South China	17	57	42	13
The 169 Hospital	South China	0	7	5	3
General Hospital of Guangdong PAP Corps	South China	0	112	211	195
General Hospital of Hunan PAP Corps	South China	0	49	44	22
The 425 Hospital	South China	0	0	18	0
The 187 Hospital	South China	0	0	0	40
The 422 Hospital	South China	0	0	0	104
The 425 Hospital	South China	0	0	0	16
Hainan Hospital of General Hospital of PLA	South China	0	0	0	146
Wuhan General Hospital of PLA	Central China	482	394	482	462
The 150 Hospital	Central China	460	244	124	484
The 91 Hospital	Central China	371	479	465	270
The 153 Hospital	Central China	183	180	76	93
The 371 Hospital	Central China	153	170	216	48
General Hospital of Henan PAP Corps	Central China	145	91	142	52
The 152 Hospital	Central China	70	62	39	89
The 155 Hospital	Central China	47	132	132	147

The 161 Hospital	Central China	47	77	66	76
The 159 Hospital	Central China	19	38	67	23
General Hospital of Hubei PAP Corps	Central China	0	61	101	75
The 477 Hospital	Central China	0	0	0	125
Xijing Hospital of FMMU	Northwest	4438	4514	5456	5326
Tangdu Hospital of FMMU	Northwest	998	1287	1749	325
General Hospital of Lanzhou Military Region	Northwest	762	685	784	749
Urumchi General Hospital of PLA	Northwest	469	489	623	617
General Hospital of Shannxi PAP Corps	Northwest	452	362	415	166
The 451 Hospital	Northwest	182	157	181	125
The 3 Hospital	Northwest	105	86	84	47
The 474 Hospital	Northwest	94	113	157	175
The 323 Hospital	Northwest	74	105	109	97
The 273 Hospital	Northwest	58	57	95	113
The 18 Hospital	Northwest	0	4	9	20
General Hospital of Ningxia PAP Corps	Northwest	0	48	38	9
General Hospital of Xinjiang PAP Corps	Northwest	0	32	28	33
The 1 Hospital	Northwest	0	0	0	19
Kunming General Hospital of PLA	Southwest	926	878	1102	993
Xinqiao Hospital of TMMU	Southwest	816	1130	1125	1393
Southwest Hospital of TMMU	Southwest	790	903	863	364
Daping Hospital of TMMU	Southwest	602	742	846	820
The General Hospital of Chengdu Military Region	Southwest	237	543	748	733
The 452 Hospital	Southwest	79	53	42	81
The 59 Hospital	Southwest	42	47	44	34
Tibet General Hospital of PLA	Southwest	23	0	0	0
The 324 Hospital	Southwest	0	0	21	29
The 37 Hospital	Southwest	0	15	4	19
The 44 Hospital	Southwest	0	4	21	15
Chengdu Hospital of Sichuan PAP Corps	Southwest	0	0	4	0
General Hospital of Sichuan PAP Corps	Southwest	0	27	57	68
Leshan Hospital of Sichuan PAP Corps	Southwest	0	4	0	0

ACS, acute coronary syndrome; PAP, people's armed police; PCI, percutaneous coronary intervention; PLA, people's liberty army; FMMU, fourth military medical university; SMMU, second military medical university; TMMU, third military medical university.

Table S2. Medical coverage of ACS patients undergoing PCI during 2013-2014

	2013*		2014		<i>P</i>
	n	%	n	%	
Medical coverage	18217		39361		
Urban resident MS	9728	53.4	21083	53.6	.72
New rural cooperative MS	3665	20.1	8714	22.1	< .0001
Self-paid	3136	17.2	6401	16.3	< .01
Free MS	572	3.1	915	2.3	< .0001

Commercial insurance	518	2.8	911	2.3	.0001
Others	793	4.4	2043	5.2	< .0001

ACS, acute coronary syndrome; MS, medical service; PCI, percutaneous coronary intervention;

* Data were from part of 2013, not from the calendar year due to a systematic revision of the registry form since 2013.

Table S3. Distribution of location of prior MI and Killip classification of ACS patients undergoing PCI during 2011-2013

	2011		2012		2013*		P value for trend
	n	%	n	%	n	%	
Prior MI							
Location	5306		5355		3255		
Inferior	2449	46.2	2520	47.1	1458	44.8	.33
Anterior	2189	41.3	2261	42.2	1450	44.5	< .01
Anteroseptal	424	8.0	361	6.7	176	5.4	< .0001
Posterior	114	2.1	99	1.8	85	2.6	.26
Anterolateral	103	1.9	85	1.6	47	1.4	.07
Right ventricular	27	0.5	29	0.5	39	1.2	< .001
Killip classification	5497		5897		4035		
I	2034	37.0	2382	40.4	1499	37.1	.59
II	2405	43.8	2454	41.6	1986	49.2	< .0001
III	768	14.0	792	13.4	437	10.8	< .0001
IV	290	5.3	269	4.6	113	2.8	< .0001

ACS, acute coronary syndrome; MI, myocardial infarction; PCI, percutaneous coronary intervention; * Data

were from part of 2013, not from the calendar year due to a systematic revision of the registry form since 2013.

Table S4. Time delay of STEMI patients undergoing primary PCI during 2013-2014

	2013*	2014	P
	Median (IQR) (n = 1495)	Median (IQR) (n = 3484)	
Time delay, mins			
Angina to Balloon	270 (190-415)	270 (190-421)	.65
Angina to FMC	225 (130-350)	220 (121-360)	.53
FMC to Balloon	40 (30-70)	50 (30-75)	< .01

FMC, first medical contact; IQR, interquartile range; MS, medical service; PCI, percutaneous coronary intervention;

STEMI, ST elevation myocardial infarction; * Data were from part of 2013, not from the calendar year due to a systematic revision of the registry form since 2013.

Table S5. Assisted device applied perioperatively in ACS patients undergoing PCI during 2011-2013

	2011		2012		2013*		P value for trend
	n	%	n	%	n	%	
Assisted device	30800		34974		21307		
Temporary pacemaker	730	2.4	797	2.3	395	1.9	< .001
OCT	19	0.1	43	0.1	30	0.1	< .01

ACS, acute coronary syndrome; OCT, optical coherence tomography; PCI, percutaneous coronary intervention;

* Data were from part of 2013, not from the calendar year due to a systematic revision of the registry form since 2013.

Table S6. Thrombolysis of STEMI patients during 2013-2014

	2013*		2014		<i>P</i>
	n	%	n	%	
Thrombolysis	3564		7856		
Yes	52	1.5	118	1.5	.86
No	3512	98.5	7738	98.5	
Thrombolytic	52		118		
Urokinase	33	63.5	67	56.8	.41
Reteplase	8	15.4	17	14.4	.87
Alteplase	4	7.7	17	14.4	.31
Prourokinase	3	5.8	12	10.2	.56
Others	4	7.7	5	4.2	.46
Time delay, mins [#]					
Angina to thrombolysis	150 (89-223)		190 (130-301)		< .05
Angina to FMC	120 (60-210)		160 (80-270)		.08
FMC to thrombolysis	30 (20-33)		30 (20-40)		.64
Thrombolysis success	52		118		
Yes	44	84.6	73	61.9	< .01
No	8	15.4	45	38.1	

FMC, first medical contact; STEMI, ST elevation myocardial infarction; * Data were from part of 2013, not from all of the calendar year due to a systematic revision of the registry form since 2013;

[#] data in the subitems were shown as median (interquartile).

Table S7. PCI outcomes of ACS patients during 2013-2014

	2013*		2014		<i>P</i>
	n	%	n	%	
TIMI flow pre-PCI	21710		46928		
0	4254	19.6	10840	23.1	< .0001
1	2139	9.9	6763	14.4	< .0001
2	2850	13.1	4909	10.5	< .0001
3	12467	57.4	24416	52.0	< .0001
TIMI flow post-PCI	21705		46922		
0	347	1.6	645	1.4	< .05
1	82	0.4	183	0.4	.81
2	283	1.3	374	0.8	< .0001
3	20993	96.7	45720	97.4	< .0001
Guiding wire through lesion	21670		46890		
Yes	21322	98.4	46184	98.5	.32
No	348	1.6	706	1.5	
Stent restenosis [#]	21734		46930		
Yes	354	1.6	857	1.8	.07
No	21380	98.4	46073	98.2	
Residual stenosis of lesion	21660		46892		

< 10%	19912	91.9	45367	96.7	< .0001
10-50%	763	3.5	537	1.1	< .0001
> 50%	985	4.5	988	2.1	< .0001
FFR applied	21756		46938		
Yes	107	0.5	189	0.4	.10
No	21649	99.5	46749	99.6	
Luminal stenosis by IVUS	178		439		
Percentage, %	76 (70-85)		77 (71-83)		.52
Minimal luminal area, mm ²	3.04 (2.68-4.00)		3.25 (2.60-4.00)		.59
Implanted stent per patient ^{**}	1.5 ± 0.7		1.4 ± 0.7		< .01

ACS, acute coronary syndrome; IVUS, intravascular ultrasound; FFR, fractional flow reserve; PCI, percutaneous coronary intervention; TIMI, thrombolysis in myocardial infarction; * Data were from part of 2013, not from the calendar year due to a systematic revision of the registry form since 2013; # within lesion categories; ** Mean ±SD, n = 19363, 42299 in 2013-2014, respectively.

Table S8. Stent manufacturer of ACS patients undergoing PCI during 2013-2014

	2013*		2014		P
	n	%	n	%	
Stent manufacturer	28181		60847		
Domestic	18345	65.1	37591	61.8	< .0001
MicroPort	6855	24.3	13862	22.8	< .0001
JW Medical	6678	23.7	13214	21.7	< .0001
Lepu Medical	4503	16.0	9868	16.2	.37
Yinyi Biotech	309	1.1	647	1.1	.66
Foreign	6550	23.2	14931	24.5	< .0001
Abbott	3164	11.2	6943	11.4	.42
Medtronic	2464	8.7	5514	9.1	.12
Boston scientific	922	3.3	2474	4.1	< .0001
Others	3286	11.7	8325	13.7	< .0001

ACS, acute coronary syndrome; PCI, percutaneous coronary intervention; * Data were from part of 2013, not from the calendar year due to a systematic revision of the registry form since 2013.