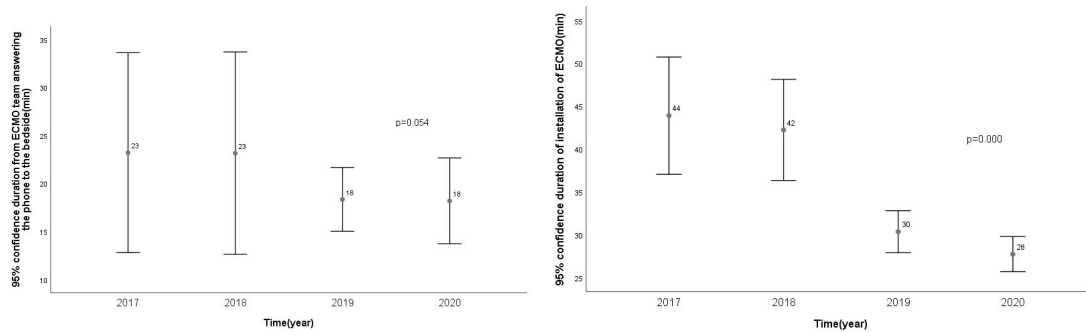
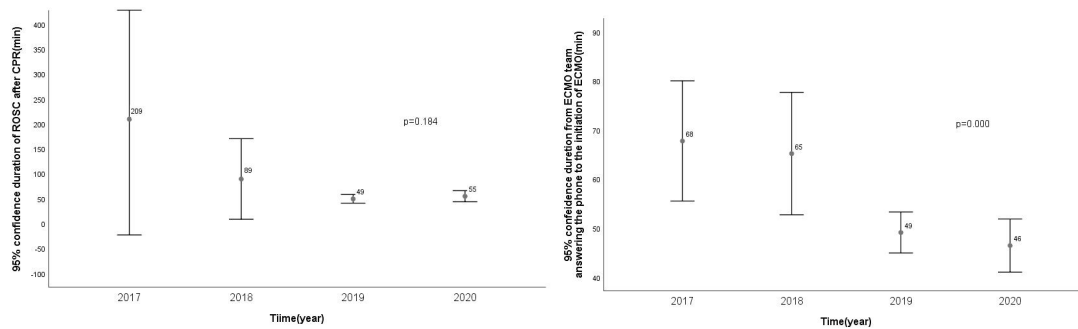


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4 **Supplementary Figure 1: Characteristics of resuscitation and installation of ECMO.**  
 5 The time interval from cardiac arrest to CPR significantly decreased from 6 (1, 20)  
 6 min in 2017 to 1 (0, 3) min in 2020 ( $P < 0.001$ ). The time interval from CPR to  
 7 ECMO was 31.5 (20, 60) min, and the time interval from ECMO team answering the  
 8 phone to the bedside was 10 (5, 20) min, with no differences among years. The time  
 9 interval from the initiation of ECMO to run showed a significant decline from  $43.9 \pm$   
 10  $15.9$  in 2017 to  $27.73 \pm 15.64$  in 2020. ECMO: Extracorporeal membrane  
 11 oxygenation.

12 Supplemental Table 1: Basic characteristics and post-ECPR treatment of patients from  
 13 2017 to 2020

Parameters	Total	2017	2018	2019	2020	<i>p</i>
		<i>N</i> = 33	<i>N</i> = 73	<i>N</i> = 197	<i>N</i> = 274	
Sex (male)	439	30	51	152	206	0.123
Age (years)	52.84 ± 15.17	47.76 ± 14.42	50.68 ± 15.75	51.90 ± 15.21	54.70 ± 14.88	0.020
ECMO centers	42	11	21	36	42	
Survival	175	8	14	61	92	0.099
ECMO duration (h)	49.53 (14.42, 117.30)	48.08 (17.08, 63.00)	50.75 (8.5, 105.05)	52.58 (15.33, 114.53)	48.92 (16.13, 120.00)	0.590
Comorbidity						
Hypertension		12	21	71	112	0.152
Diabetes	107	8	12	31	56	0.377
Respiratory diseases	22	0	6	6	10	0.192
Ischemic cardiac disease	59	5	8	21	25	0.651
Cerebrovascular disease	31	0	1	8	22	0.063
Smoking Causes	173	13	19	55	86	0.189
AMI	295	18	35	103	139	
Valvular heart disease and	53	1	10	17	25	

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cardiomyopat						
hy						
Severe	50	3	8	17	22	
pneumonia						
and sepsis						
Pulmonary	33	1	4	13	15	
embolism						
Acute	28	1	5	13	9	
myocarditis						
Malignant	29	1	6	5	7	
arrhythmia						
Others	99	8	5	29	57	
Location of	168	15	17	52	84	0.000
CA (OHCA)						
By stander	475	22	60	169	224	0.024
(yes)						
Defibrillation	388	20	45	125	198	0.000
(yes)						
ROSC (yes)	213	13	27	69	104	0.000
IABP	173	7	22	69	75	0.214
IABP duration	95.92	122.38	72.09	107.50	87.00	0.337
	(30.0,	(56.75,	(10.33,	(33.00,	(25.28,	
	157.50)	304.50)	130.17)	168.83)	155.33)	
Mechanical	561	33	68	194	266	0.086
ventilation						
Mechanical	66.49	53.17	70.21	63.09	67.98	0.661
ventilation	(19.92,	(18.81,	(17.17,	(18.17,	(24.00,	
duration	172.25)	188.89)	135.90)	174.00)	174.81)	
Target	336	21	42	120	153	0.001

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temperature						
management						
CRRT	281	21	32	93	135	0.278
Surgery	51	4	12	15	20	0.077
Complications						
of ECMO						
Operating	21	0	2	9	10	0.593
complications						
Mechanical	29	1	5	11	12	0.765
complications						
Bleeding	128	12	20	47	49	0.041
Neurological	48	1	8	17	22	0.587
complications						
Hepato-renal	70	6	11	24	29	0.505
complications						
Limb	41	4	7	14	16	0.457
complications						
Time interval	1.00	6.00 (1.00,	1.00 (0.00,	1.00	1.00 (0.00,	0.000
from CA to	(0.00,	20.00)	5.00)	(0.00,	3.00)	
CPR (min)	5.00)			3.00)		
Duration from	31.50	60.00	30.00	30.00	35.00	0.073
CPR to	(20.00,	(25.00,	(20.00,	(20.00,	(20.00,	
ECMO (min)	60.00)	100.00)	60.00)	64.00)	60.00)	
Time interval	35.00	84.00	30.00	40.00	30.50	0.184
of ROSC	(18.00,	(30.00,	(17.00,	(20.00,	(16.50,	
achieved	70.00)	190.00)	70.00)	70.00)	69.00)	
Duration from	10.00	20.00	14.00	10.00	10.00	0.054
ECMO team	(5.00,	(8.50,	(5.00,	(5.00,	(5.00,	
answering the	20.00)	30.00)	30.00)	20.00)	18.00)	

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phone to the bedside (min)							
Duration of	29.00	40.00	37.00	28.00	25.00	0.000	
installation of ECMO (min)	(20.00, 40.00)	(30.00, 50.00)	(24.50, 55.00)	(20.00, 36.00)	(16.00, 35.00)		
Duration from ECMO team	41.00	60.00	50.00	43.00	37.00	0.000	
answering the phone to the initiation of ECMO (min)	(30.00, 60.00)	(50.00, 75.00)	(38.00, 78.00)	(32.00, 59.00)	(27.00, 54.00)		
LOS	5.00 (1.00, 17.00)	3.00 (1.00, 10.00)	4.00 (1.00, 13.00)	6.50 (1.00, 17.50)	5.00 (2.00, 18.00)	0.424	
Length of ICU stay	4.00 (1.00, 11.00)	3.00 (1.00, 10.00)	4.00 (1.00, 8.00)	4.00 (1.00, 11.00)	4.00 (1.00, 13.00)	0.776	

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- 14 AMI: Acute myocardial infarction; ECMO: Extracorporeal membrane oxygenation;  
15 ECPR: Extracorporeal cardiopulmonary resuscitation; LOS: Length of stay; OHCA:  
16 Out-of-hospital cardiac arrest.

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