

Supplementary Material

Sex Disparities in ICU Care and Outcomes After Cardiac Arrest: A Swiss Nationwide Analysis

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Supplementary Methods

Reporting

Study reporting followed the Strengthening the Reporting of Observational Studies in Epidemiology (STROBE) guidelines and the Sex and Gender Equity in Research (SAGER) guidelines.[1] For simplicity, the present study utilized the category "sex assigned at birth," abbreviated as "sex." Individuals assigned female at birth were categorized as "women," and those assigned male at birth as "men."

Variables and general definitions

Structural data from the MDSi included information regarding the level of care of the receiving hospital. Individual data from the MDSi included the age and sex of the patients, the in-hospital origin of the patient (e.g., emergency room, post-interventional), interventions before or within 24 hours after ICU admission (e.g., percutaneous coronary intervention [PCI], cardiac surgery). Limited data regarding the patient's pre-admission functional status was available through pre-hospital patient origin (e.g., home, nursing home).

Illness severity was quantified at ICU admission using the Simplified Acute Physiology Score (SAPS II).[2] Delirium was assessed using the Riker Sedation-Agitation Scale (SAS), and any score of >4 points was defined as evidence of delirium. The nursing workload was assessed using the Nine Equivalent of Nursing Manpower Use Score (NEMS).[3] Information regarding treatment modalities included respiratory support, vasopressor use, renal replacement therapy (RRT), and interventions in and outside the ICU. In 2016, the MDSi was extended with information about treatment limitations, including timing and degree, as previously reported.[4] ICU length of stay (LOS) was defined as the time from ICU admission until discharge or death.

Data requested from the FSO contained information about admission diagnosis, sex, age, and date of death.

Definition of specific interventions

Specific interventions outside the ICU were defined as interventions outside the ICU requiring patient transport by the ICU team, including percutaneous coronary interventions (PCI), angiographies, and endoscopies (not mutually exclusive). Specific interventions in the ICU included endotracheal intubation, placement of central venous catheters, chest tube placement, temporary pacemaker introductions, cardioversion, and endoscopies (not mutually exclusive).

Definition of discharge information

Details on ICU discharge destination included discharge to a regular ward, other ICU, intermediate care unit, discharge home, rehabilitation, or ICU death.

Definition of in- and out-of-hospital cardiac arrest

Patients after in-hospital cardiac arrest (IHCA) and out-of-hospital cardiac arrest (OHCA) were identified based on their immediate origin. OHCA was defined as ICU admission from the emergency room and/or post-intervention. In contrast, IHCA was defined as ICU admission from the regular ward, another ICU, intermediate care unit, or other origins.

Definition of timing, reason, and degree of treatment Limitations

Information regarding the timing of treatment limitations included limitations at ICU admission, during the ICU stay, or at ICU discharge. Reasons for treatment limitations were the patient's wish, the health advocate's wish, and medical decision. The degree of treatment limitations was defined as limited in time, limited in content, or withdrawal of life-sustaining therapy/palliation.

Definition of Coronavirus 2019 disease (COVID-19) era

The years 2008 – 2019 were defined as the pre-Coronavirus 2019 disease (COVID-19) era (pre-COVID-19 era), and the years 2020-2022 as the COVID-19 era.

Supplementary Results

Sex differences and temporal changes in ICU admission rates and mortality

ICU admission rates were significantly higher for men than women across the whole study period and remained constant until the outbreak of Coronavirus disease 2019 (COVID-19), when a significant drop was noted in both sexes (ICU admission rates pre-COVID-19 vs COVID-19 era $IRR_{men} = 0.69$ [95%CI 0.67 - 0.72] and $IRR_{women} = 0.79$ [95%CI 0.75 - 0.84]). The reduction of the ICU admission rates during the COVID-19 pandemic was about 12% greater in men than in women ($IRR = 0.88$, 95%CI 0.82 - 0.93), **Figure 5**. Women consistently showed a higher ICU mortality than men when analyzing the pre-COVID-19 and COVID-19 era: ICU mortality_{pre-COVID-19} men vs women, 36.0% [95% CI 34.9-37.2] vs 42.0% [95% CI 40.3-44.0] and ICU mortality_{COVID-19} men vs women 36.7% (95%CI 35.0-38.5) vs 41.2% (95%CI 38.4-44.2). No significant differences in ICU mortality between women and men were observed when comparing the COVID-19 with the pre-COVID-19 era (p-value = 0.434).

Multivariable analysis in the subgroup of in-hospital cardiac arrest patients (Model I)

In the adjusted multivariable model in the subgroup of IHCA patients, female sex was not related to an increased risk of ICU death after adjusting for available confounders (adjusted hazard ratio [aHR] 1.03 [95%CI 0.94-1.13]). Age>65 years was associated with a higher mortality risk in both sexes. PCI and cardiac surgery/other cardiovascular interventions were associated with a lower mortality risk in men. In contrast, non-cardiac surgery was associated with a lower mortality risk in women. Admission to a surgical ICU was associated with a lower risk of ICU death in men. Non-invasive respiratory support, administration of one vasoactive and interventions outside the ICU were linked to a risk reduction in both sexes. Mechanical ventilation (MV) (aHR 0.74 [95%CI 0.60-0.92]), renal replacement therapy (RRT) (aHR 0.74 [95%CI 0.64-0.92]) and interventions

inside the ICU were associated with a lower mortality risk only in men, **Supplementary Table 5, Supplementary Figure 2.**

Multivariable analysis in the subgroup of out-of-hospital cardiac arrest patients (Model I)

In the adjusted multivariable model of the subgroup of OHCA patients, female sex was related to a higher risk of ICU death compared to men (aHR 1.19 [95%CI 1.12-1.25]) after adjusting for available confounders. Age>65 years was associated with a higher mortality risk in both sexes. All registered interventions before ICU admission were associated with a lower risk of ICU death in men, only PCI reduced the risk in both sexes. No differences regarding mortality risk were found regarding the type of ICU. Non-invasive respiratory support, administration of one vasoactive and interventions in- and outside the ICU were linked to a risk reduction in both sexes. Only in men, RRT was related to a risk reduction (aHR 0.78 [95%CI 0.70-0.86]), while mechanical ventilation (aHR 1.61 [95%CI 1.36-1.92]) associated with an increased risk. The application of multiple vasoactives increased the risk to die in both sexes. **Supplementary Table 5, Supplementary Figure 3.**

Subgroup analysis of patients with information regarding treatment limitations (Model II)

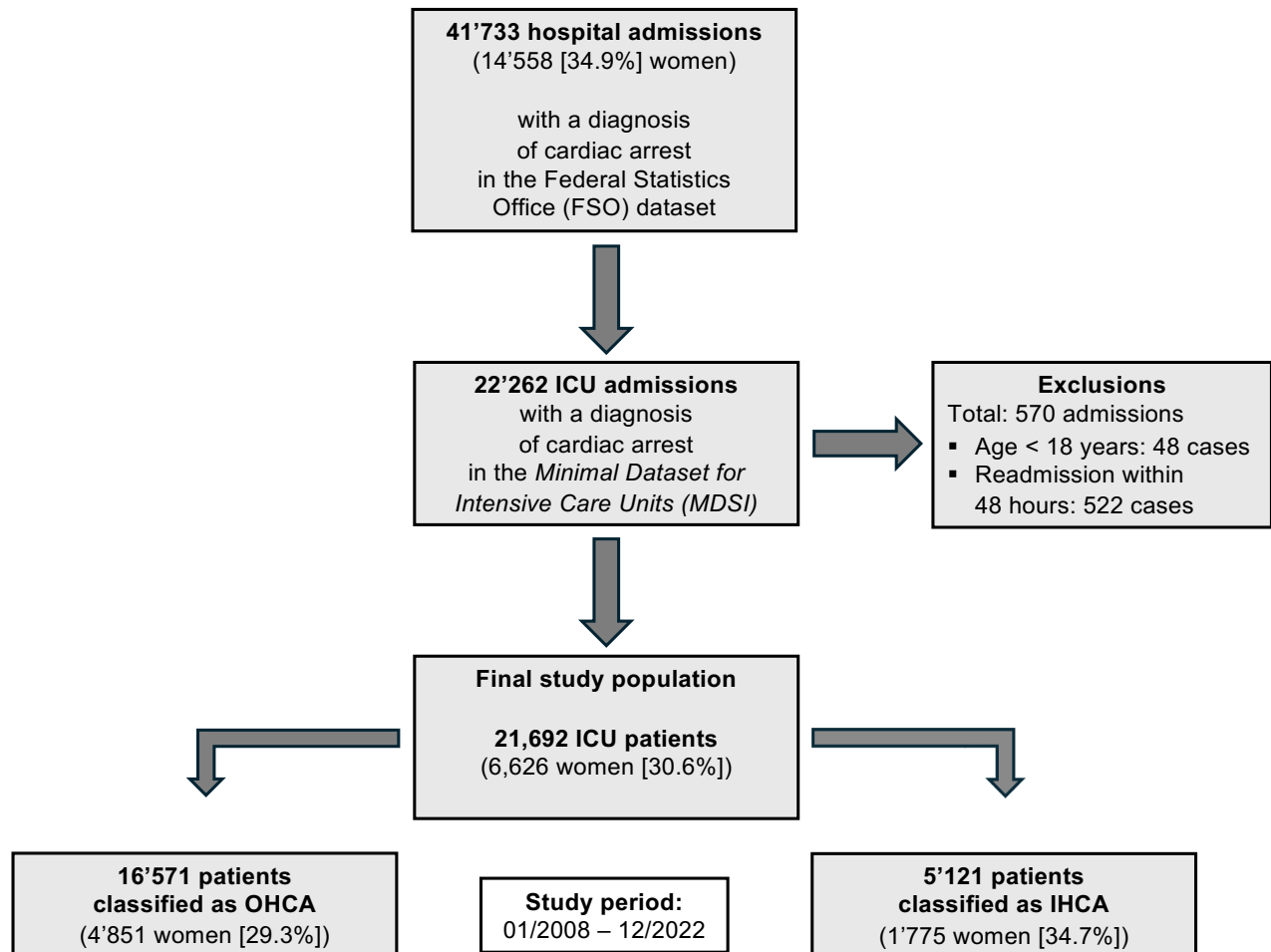
Documented information about the timing, graduation, and reason for therapeutic limitations was available in a subgroup of 11,202 patients (3,403 women, 30.4%), **Supplementary Table 6.** Limitations were reported in 41.1% of patients, with women having significantly more treatment limitations (46.7% vs 38.7%, $p<0.001$). Upon ICU admission, more women had treatment limitations (46.7% vs 38.7%, $p<0.001$), **Supplementary Table 6.** Withdrawal of life-sustaining therapies was more frequent in women compared to men (26.1% vs 22.3%, $p<0.001$). In women, the decision for treatment limitations was more often based on a medical decision by ICU caregivers than in men (30.4% vs 24.8%, $p<0.001$), **Supplementary Table 6.** In the multivariable subgroup analysis, the risk of ICU death for women was persistently higher (aHR 1.09 [95%CI

1.02 to 1.16]) compared to men. All varieties of limitations increased the aHR for ICU death, except for limitations applied during ICU stay, **Supplementary Table 7**. Although withdrawal of life-sustaining therapies was more frequent in women, the risk of dying did not differ between sexes as it was also the case when caregivers decided on treatment limitations (ratio women:men: aHR 1.04 [95% CI 0.88 to 1.23]), **Supplementary Table 7**.

Supplementary Figures

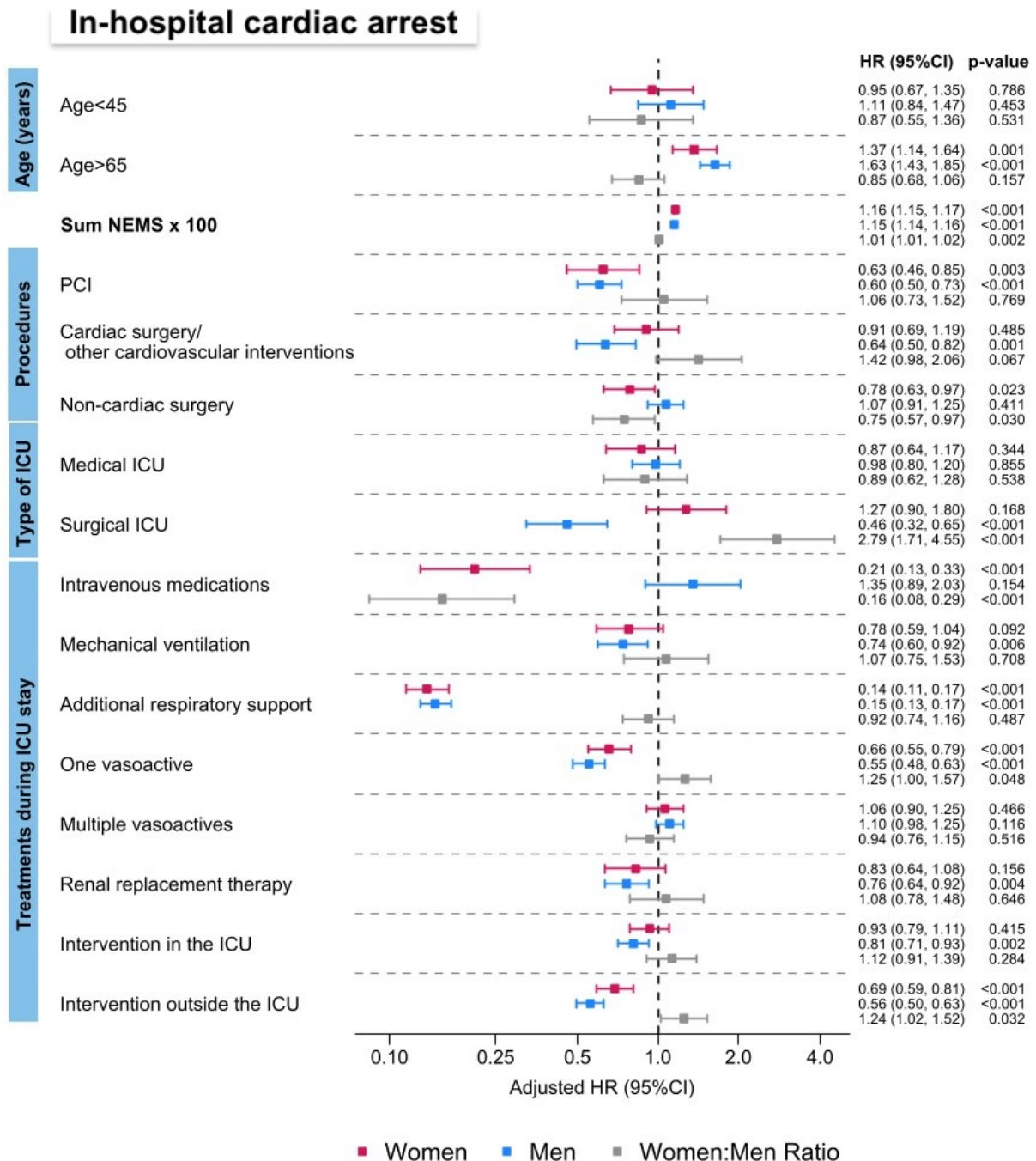
Supplementary Figure 1. Patient flow chart

Abbreviations: ICU Intensive care unit; IHCA In-hospital cardiac arrest; OHCA Out-of-hospital cardiac arrest.



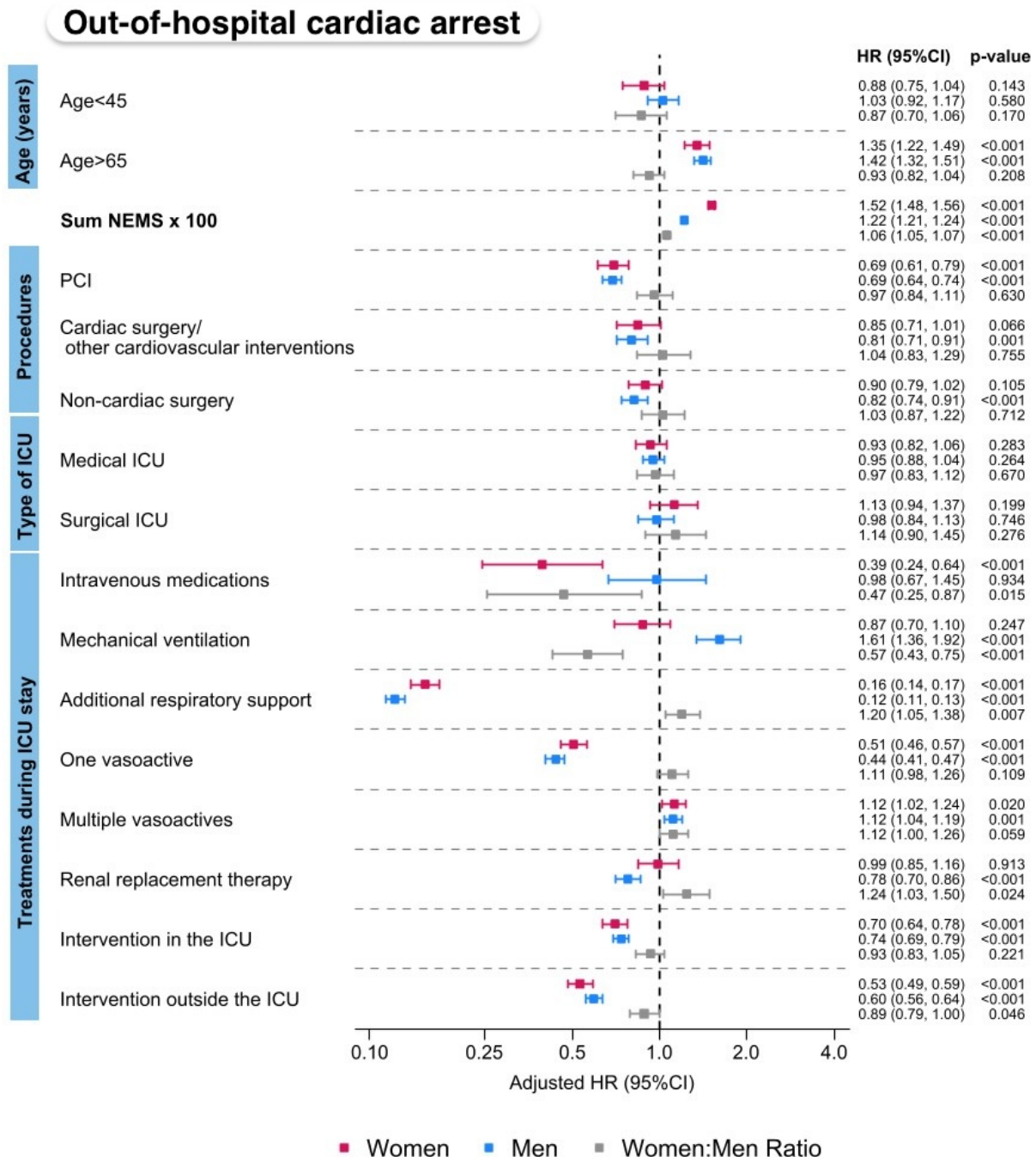
Supplementary Figure 2. Sex differences in ICU mortality risk in the subgroup of patients with in-hospital cardiac arrest (Model 1)

Abbreviations: HR Hazard ratio; ICU Intensive care unit; NEMS Nine equivalents of Nursing Manpower Use Score; PCI Percutaneous coronary intervention.



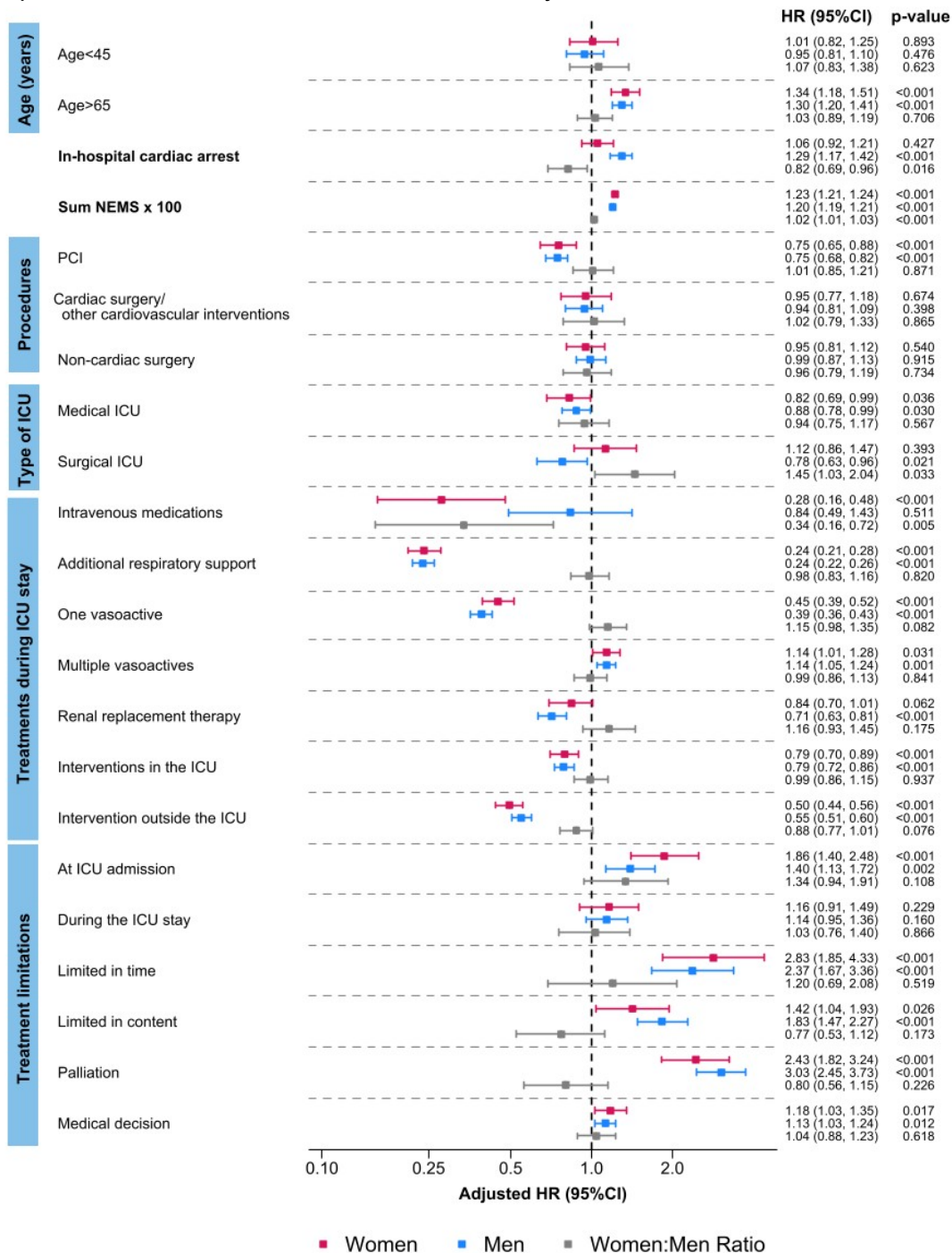
Supplementary Figure 3. Sex differences in ICU mortality risk in the subgroup of patients with out-of-hospital cardiac arrest (Model 1)

Abbreviations: HR Hazard ratio; ICU Intensive care unit; NEMS Nine equivalents of Nursing Manpower Use Score; PCI Percutaneous coronary intervention.



Supplementary Figure 4. Sex differences in ICU mortality risk in a subgroup of patients with information regarding treatment limitations (Model 2)

Abbreviations: HR Hazard ratio; ICU Intensive care unit; NEMS Nine equivalents of Nursing Manpower Use Score; PCI Percutaneous coronary intervention.



Supplementary tables

Supplementary Table 1. Baseline characteristics and outcomes stratified by sex category and type of cardiac arrest.

Abbreviations: ICU Intensive care unit; IMC Intermediate care unit; IQR Interquartile range; NEMS Nine equivalents of nursing manpower use score; PACU Post-anesthesia care unit SAS Sedation-agitation scale; SAPS-II Simplified Acute Physiology Score II; SD Standard deviation.

	Overall				In-hospital cardiac arrest				Out-of-hospital cardiac arrest			
	Total	Men	Women	P-value	Total	Men	Women	P-value	Total	Men	Women	P-value
	N=21,692	N=15,066	N=6,626		N=5,121	N=3,346	N=1,775		N=16,571	N=11,720	N=4,851	
Age (years) - Mean (SD)	65.8 (14.6)	65.2 (14.2)	67.0 (15.4)	<0.001	68.9 (13.5)	68.2 (13.2)	70.3 (13.8)	<0.001	64.8 (14.8)	64.4 (14.4)	65.8 (15.8)	<0.001
Age categories												
Age<45	1,793 (8.3%)	1,191 (7.9%)	602 (9.1%)	<0.001	255 (5.0%)	159 (4.7%)	96 (5.4%)	<0.001	1,538 (9.3%)	1,032 (8.8%)	506 (10.4%)	<0.001
Age 45-65	7,889 (36.4%)	5,836 (38.7%)	2,053 (31.0%)		1,534 (30.0%)	1,097 (32.8%)	437 (24.6%)		6,355 (38.4%)	4,739 (40.4%)	1,616 (33.3%)	
Age>65	12,010 (55.4%)	8,039 (53.4%)	3,971 (59.9%)		3,332 (65.0%)	2,090 (62.5%)	1,242 (70.0%)		8,678 (52.4%)	5,949 (50.8%)	2,729 (56.3%)	
Admission information												
Patient's pre-hospital origin												
From home	14,983 (69.1%)	10,398 (69.0%)	4,585 (69.2%)	0.22	3,445 (67.3%)	2,249 (67.2%)	1,196 (67.4%)	0.32	11,538 (69.6%)	8,149 (69.5%)	3,389 (69.9%)	0.017
Other hospital	2,903 (13.3%)	2,010 (13.3%)	893 (13.5%)		712 (13.9%)	474 (14.2%)	238 (13.4%)		2,191 (13.2%)	1,536 (13.1%)	655 (13.5%)	
Nursing home	43 (0.2%)	24 (0.2%)	19 (0.3%)		5 (0.1%)	5 (0.2%)	0 (0.0%)		38 (0.2%)	19 (0.2%)	19 (0.4%)	
Other	3,763 (17.4%)	2,634 (17.5%)	1,129 (17.0%)		959 (18.7%)	618 (18.5%)	341 (19.2%)		2,804 (16.9%)	2,016 (17.2%)	788 (16.2%)	
Patient's in-hospital origin												
Emergency room	9,474 (43.7%)	6,503 (43.2%)	2,971 (44.8%)	<0.001				0.018	9,474 (57.2%)	6,503 (55.5%)	2,971 (61.3%)	<0.001
Operating room/ post-interventional	5,891 (27.2%)	4,340 (28.8%)	1,551 (23.4%)						5,891 (35.6%)	4,340 (37.0%)	1,551 (32.0%)	
Other ICU	1,206 (5.6%)	877 (5.8%)	329 (5.0%)						1,206 (7.3%)	877 (7.5%)	329 (6.8%)	
IMC/PACU	560 (2.6%)	369 (2.5%)	191 (2.9%)		560 (10.9%)	369 (11.0%)	191 (10.8%)					
Ward	2,959 (13.6%)	1,888 (12.5%)	1,071 (16.1%)		2,959 (57.8%)	1,888 (56.4%)	1,071 (60.3%)					
Other	1,602 (7.4%)	1,089 (7.2%)	513 (7.7%)		1,602 (31.2%)	1,089 (32.6%)	513 (28.9%)					

Illness severity and use of ICU resources												
SAPS-II - Mean (SD)	61.6 (23.1)	61.3 (23.1)	62.4 (23.1)	0.001	64.4 (24.5)	64.4 (24.7)	64.5 (24.2)	0.89	60.8 (22.6)	60.4 (22.6)	61.6 (22.7)	0.002
Sum NEMS of all nursing shifts - Median (IQR)	101 (83-133)	100 (83-130)	103 (85-140)	<0.001	104 (83-159)	103 (83-156)	105 (84-163)	0.33	100 (83-128)	100 (83-125)	102 (85-135)	<0.001
NEMS first nursing shift - Median (IQR)	12.2 (5.8-29.3)	11.5 (5.5-26.2)	14.2 (6.5-36.0)	<0.001	15.6 (6.3-52.0)	14.2 (5.9-47.0)	17.8 (7.0-65.8)	<0.001	11.5 (5.7-25.4)	11.0 (5.5-23.1)	13.4 (6.4-31.6)	<0.001
NEMS last nursing shift - Median (IQR)	8.8 (3.6-23.9)	8.2 (3.3-21.6)	10.3 (4.2-30.0)	<0.001	11.5 (3.9-47.4)	10.8 (3.7-41.9)	12.9 (4.5-61.4)	<0.001	8.2 (3.4-20.6)	7.5 (3.2-18.7)	9.7 (4.1-25.6)	<0.001
SAS >4 points	6,804 (31.4%)	5,119 (34.0%)	1,685 (25.4%)	<0.001	1,444 (28.2%)	1,020 (30.5%)	424 (23.9%)	<0.001	5,360 (32.4%)	4,099 (35.0%)	1,261 (26.0%)	<0.001
Interventions and/or surgeries before ICU admission												
No intervention	10,597 (48.8%)	6,933 (46.0%)	3,664 (55.3%)	<0.001	3,183 (62.2%)	2,050 (61.3%)	1,133 (63.8%)	<0.001	7,414 (44.7%)	4,883 (41.7%)	2,531 (52.2%)	<0.001
Percutaneous coronary intervention	6,459 (29.8%)	5,126 (34.0%)	1,333 (20.1%)		715 (14.0%)	548 (16.4%)	167 (9.4%)		5,744 (34.7%)	4,578 (39.1%)	1,166 (24.0%)	
Cardiac surgery/other cardiovascular interventions	1,879 (8.7%)	1,282 (8.5%)	597 (9.0%)		453 (8.8%)	289 (8.6%)	164 (9.2%)		1,426 (8.6%)	993 (8.47%)	433 (8.9%)	
Non-cardiac surgery	2,757 (12.7%)	1,725 (11.5%)	1,032 (15.6%)		770 (15.0%)	459 (13.7%)	311 (17.5%)		1,987 (12.0%)	1,266 (10.8%)	721 (14.9%)	
Treatments during ICU stay												
Intravenous medications	21,423 (98.8%)	14,888 (98.8%)	6,535 (98.6%)	0.24	5,018 (98.0%)	3,278 (98.0%)	1,740 (98.0%)	0.88	16,405 (99.0%)	11,610 (99.1%)	4,795 (98.8%)	0.20
Mechanical ventilation	17,973 (82.9%)	12,494 (82.9%)	5,479 (82.7%)	0.67	3,978 (77.7%)	2,627 (78.5%)	1,351 (76.1%)	0.050	13,995 (84.5%)	9,867 (84.2%)	4,128 (85.1%)	0.14
Additional respiratory support	12,695 (58.5%)	9,052 (60.1%)	3,643 (55.0%)	<0.001	2,964 (57.9%)	1,971 (58.9%)	993 (56.0%)	0.041	9,731 (58.7%)	7,081 (60.4%)	2,650 (54.6%)	<0.001
1 Vasoactive medication	15,340 (70.9%)	10,759 (71.6%)	4,581 (69.3%)	<0.001	3,327 (65.4%)	2,174 (65.5%)	1,153 (65.1%)	0.80	12,013 (72.6%)	8,585 (73.4%)	3,428 (70.9%)	0.001
>1 Vasoactive medication	8,234 (38.1%)	5,849 (38.9%)	2,385 (36.1%)	<0.001	1,786 (35.1%)	1,184 (35.7%)	602 (34.0%)	0.24	6,448 (39.0%)	4,665 (39.9%)	1,783 (36.9%)	<0.001
Renal replacement therapy	1,666 (7.9%)	1,213 (8.1%)	453 (6.8%)	0.002	457 (8.9%)	323 (9.6%)	134 (7.6%)	0.012	1,209 (7.3%)	890 (7.6%)	319 (6.6%)	0.022
Advanced Intervention in the ICU	11,227 (51.8%)	7,910 (52.5%)	3,317 (50.1%)	<0.001	2,961 (57.8%)	1,959 (58.6%)	1,002 (56.5%)	0.15	8,266 (49.9%)	5,951 (50.8%)	2,315 (47.7%)	<0.001
Advanced Intervention outside the ICU	10,044 (46.5%)	7,129 (47.5%)	2,915 (44.3%)	<0.001	2,416 (47.6%)	1,606 (48.4%)	810 (46.1%)	0.12	7,628 (46.2%)	5,523 (47.2%)	2,105 (43.6%)	<0.001
ICU type												
Medical ICU	3,191 (14.7%)	2,317 (15.4%)	874 (13.2%)	<0.001	413 (8.0%)	289 (8.6%)	124 (7.0%)	0.13	2,778 (16.8%)	2,028 (17.3%)	750 (15.5%)	<0.001
Surgical ICU	1,116 (5.1%)	749 (5.0%)	367 (5.5%)		221 (4.3%)	140 (4.2%)	81 (4.6%)		895 (5.4%)	609 (5.2%)	286 (5.9%)	
Interdisciplinary ICU	17,197 (79.3%)	11,849 (78.6%)	5,348 (80.7%)		4,473 (87.4%)	2,906 (86.9%)	1,567 (88.3%)		12,724 (76.8%)	8,943 (76.3%)	3,781 (77.9%)	
Other	188 (0.9%)	151 (1.0%)	37 (0.6%)		14 (0.3%)	11 (0.3%)	3 (0.2%)		174 (1.0%)	140 (1.2%)	34 (0.7%)	

Level of care												
Tertiary university hospital	8,371 (38.6%)	6,000 (39.8%)	2,371 (35.8%)	<0.001	1,489 (29.1%)	1,004 (30.0%)	485 (27.3%)	<0.001	6,882 (41.5%)	4,996 (42.6%)	1,886 (38.9%)	<0.001
Large hospital	5,222 (24.1%)	3,717 (24.7%)	1,505 (22.7%)		1,088 (21.3%)	744 (22.2%)	344 (19.4%)		4,134 (25.0%)	2,973 (25.4%)	1,161 (23.9%)	
Regional hospital/no categorization	8,099 (37.3%)	5,349 (35.5%)	2,750 (41.5%)		2,544 (49.7%)	1,598 (47.8%)	946 (53.3%)		5,555 (33.5%)	3,751 (32.0%)	1,804 (37.2%)	
Discharge information and outcomes												
Patient's discharge destination (patients discharged alive)												
Ward	8,790 (65.3%)	6,145 (63.9%)	2,645 (68.6%)	<0.001	2,090 (68.4%)	1,355 (67.1%)	735 (70.8%)	0.092	6,700 (64.4%)	4,790 (63.1%)	1,910 (67.8%)	<0.001
Other ICU or IMC	4,320 (32.1%)	3,208 (33.4%)	1,112 (28.9%)		895 (29.3%)	615 (30.5%)	280 (27.0%)		3,425 (32.9%)	2,593 (34.2%)	832 (29.6%)	
Discharge to rehabilitation or home	105 (0.9%)	79 (0.8%)	26 (0.7%)		21 (0.7%)	17 (0.8%)	4 (0.4%)		84 (0.8%)	62 (0.8%)	22 (0.8%)	
Other	249 (1.9%)	178 (1.9%)	71 (1.8%)		52 (1.7%)	33 (1.6%)	19 (1.8%)		197 (1.9%)	145 (1.9%)	52 (1.9%)	
ICU length of stay - Median (IQR)	2 (1-5)	3 (1-6)	2 (1-5)	<0.001	2 (1-5)	2 (1-5)	2 (0-4)	<0.001	3 (1-5)	3 (1-6)	2 (1-5)	<0.001
ICU mortality	8,228 (37.9%)	5,456 (36.2%)	2,772 (41.8%)	<0.001	2,063 (40.3%)	1,326 (39.6%)	737 (41.5%)	0.19	6,165 (37.2%)	4,130 (35.2%)	2,035 (42.0%)	<0.001

Descriptive statistics are presented using mean and standard deviation (SD) or median and interquartile range (IQR: 25th–75th percentile) for continuous variables and numbers and proportions for categorical variables.

Supplementary Table 2. Early mortality rates in patients after cardiac arrest stratified by sex and cardiac arrest type. **Bold:** significantly higher mortality rates in women.

Abbreviations: CI confidence interval; ICU intensive care unit.

ICU day	Overall				In-hospital cardiac arrest				Out-of-hospital cardiac arrest			
	Men	[95%CI]	Women	[95%CI]	Men	[95%CI]	Women	[95%CI]	Men	[95%CI]	Women	[95%CI]
1	14.1	13.6 – 14.7	18.9	17.9 – 19.9	21.4	20.0 – 22.9	24.2	22.2 – 26.3	12.1	11.5 – 12.7	16.9	15.9 – 18.1
2	20.9	20.2 – 21.6	27.8	26.6 – 28.9	28.4	26.8 – 30.0	30.8	28.6 – 33.2	18.8	18.1 – 19.6	26.6	25.3 – 28.0
3	27.4	26.6 – 28.2	35.2	33.9 – 36.5	33.3	31.6 – 35.2	37.0	34.5 – 39.7	25.7	24.9 – 26.6	34.4	33.0 – 36.0
4	33.4	32.5 – 34.3	41.3	39.9 – 42.8	38.3	36.4 – 40.2	41.5	38.8 – 44.2	32.0	31.1 – 33.0	41.2	39.6 – 42.8
5	38.6	37.6 – 39.5	47.1	45.6 – 48.6	42.5	40.5 – 44.6	47.9	45.0 – 50.9	37.4	36.4 – 38.5	46.7	45.0 – 48.5
6	42.6	41.6 – 43.6	51.0	49.4 – 52.6	45.5	43.4 – 47.6	50.5	47.5 – 53.6	41.8	40.6 – 42.9	51.0	49.2 – 52.9
7	45.5	44.4 – 46.5	54.6	52.9 – 56.2	47.9	45.7 – 50.1	53.8	50.6 – 57.0	44.7	43.6 – 45.9	54.7	52.8 – 56.6

Supplementary Table 3. Incidence rate ratios (IRR) of intensive care unit death in patients after cardiac arrest stratified by age and sex categories.

Abbreviations: IRR Incidence rate ratio 95%CI 95% Confidence interval.

Sex & Age Group	IRR	p-value	95% CI
Women age <20 years	0.62	0.347	0.23-1.67
Women age 20-24 years	1.03	0.901	0.64-1.67
Women age 25-29 years	0.82	0.372	0.53-1.27
Women age 30-34 years	1.05	0.798	0.70-1.58
Women age 35-39 years	1.07	0.696	0.77-1.49
Women age 40-44 years	1.27	0.1	0.96-1.69
Women age 45-49 years	1.20	0.118	0.95-1.52
Women age 50-54 years	1.42	<0.001	1.17-1.72
Women age 55-59 years	1.27	0.005	1.07-1.50
Women age 60-64 years	1.32	<0.001	1.14-1.52
Women age 65-69 years	1.15	0.042	1.01-1.31
Women age 70-74 years	1.11	0.1	0.98-1.25
Women age 75-79 years	1.06	0.294	0.95-1.20
Women age 80-84 years	1.00	0.965	0.88-1.14
Women age 85-89 years	1.02	0.774	0.87-1.21
Women age 90-94 years	1.00	0.997	0.72-1.39
Women age ≥95 years	0.68	0.474	0.24-1.94

Supplementary Table 4. Multivariable model for ICU mortality comparing women and men (Model 1).
Abbreviations: ICU *Intensive care unit*; HR, *hazard ratio*; LOS ICU *length of stay*; NEMS *Nine Equivalents of Nursing Manpower Use Score*.

Factors	Overall (n = 21,528)		Women (n = 6,565)		Men (n = 14,963)		Ratio Women:Men	
	Adj.HR (95%CI)	p-value	Adj.HR (95%CI)	p-value	Adj.HR (95%CI)	p-value	Adj.HR (95%CI)	p-value
Female sex	1.14 (1.09, 1.20)	<0.001						
Age categories								
Age<45	1.04 (0.95,1.13)	0.404	0.86 (0.74, 1.00)	0.054	1.11 (0.99,1.23)	0.065	0.77 (0.64, 0.93)	0.006
Age 45-65	1.00		1.00		1.00		1.00	
Age>65	1.48 (1.41, 1.56)	<0.001	1.32 (1.21, 1.44)	<0.001	1.51 (1.42, 1.60)	<0.001	0.88 (0.79, 0.97)	0.014
In-hospital cardiac arrest	1.13 (1.07, 1.19)	<0.001	1.03 (0.93, 1.12)	0.598	1.19 (1.11, 1.27)	<0.001	0.85 (0.76, 0.96)	0.006
Sum NEMS of all nursing shifts/LOS x 100	1.17 (1.16, 1.18)	<0.001	1.21 (1.20, 1.22)	<0.001	1.17 (1.16, 1.18)	<0.001	1.03 (1.03, 1.04)	<0.001
Interventions before ICU admission								
No intervention	1.00		1.00		1.00		1.00	
Percutaneous coronary intervention	0.68 (0.64, 0.72)	<0.001	0.68 (0.61, 0.76)	<0.001	0.69 (0.64, 0.73)	<0.001	1.00 (0.88, 1.14)	0.987
Cardiac surgery/other cardiovascular interventions	0.71 (0.64, 0.77)	<0.001	0.88 (0.76, 1.02)	0.088	0.70 (0.63, 0.79)	<0.001	1.26 (1.05, 1.53)	0.015
Non-cardiac surgery	0.86 (0.81, 0.92)	<0.001	0.86 (0.77, 0.96)	0.009	0.88 (0.81, 0.96)	0.004	0.99 (0.86, 1.14)	0.849
Type of intensive care unit								
Interdisciplinary ICU	1.00		1.00		1.00		1.00	
Medical ICU	0.94 (0.88, 1.00)	0.044	0.92 (0.82, 1.03)	0.153	0.95 (0.88, 1.03)	0.215	0.97 (0.84, 1.11)	0.630
Surgical ICU	0.76 (0.68, 0.85)	<0.001	1.15 (0.97, 1.35)	0.104	0.69 (0.60, 0.80)	<0.001	1.69 (1.35, 2.11)	<0.001
Other	1.19 (0.94, 1.50)	0.156	0.89 (0.53, 1.50)	0.669	1.29 (0.99, 1.68)	0.060	0.70 (0.39, 1.24)	0.218
Level of care								
Tertiary university hospital	1.00		1.00		1.00		1.00	
Large hospital	1.06 (1.00, 1.12)	0.067	1.14 (1.03, 1.26)	0.008	1.04 (0.97, 1.11)	0.300	1.08 (0.96, 1.22)	0.218
Regional hospital/other	0.88 (0.84, 0.93)	<0.001	0.87 (0.79, 0.95)	0.002	0.89 (0.83, 0.95)	<0.001	0.97 (0.87, 1.09)	0.599
Interventions during the ICU stay								
Intravenous medications	0.84 (0.68, 1.05)	0.122	0.34 (0.25, 0.48)	<0.001	1.22 (0.92, 1.61)	0.166	0.29 (0.19, 0.44)	<0.001
Mechanical ventilation	1.05 (0.95, 1.17)	0.324	0.89 (0.75, 1.07)	0.211	1.11 (0.97, 1.26)	0.130	0.83 (0.66, 1.03)	0.084
Non-invasive respiratory support	0.14 (0.13, 0.14)	<0.001	0.14 (0.13, 0.16)	<0.001	0.13 (0.12, 0.14)	<0.001	1.11 (0.99, 1.24)	0.088
One vasoactive	0.51 (0.48, 0.53)	<0.001	0.53 (0.49, 0.59)	<0.001	0.48 (0.45, 0.51)	<0.001	1.12 (1.01, 1.26)	0.040
Multiple vasoactive drugs	1.13 (1.08, 1.19)	<0.001	1.19 (1.09, 1.29)	<0.001	1.11 (1.05, 1.18)	<0.001	1.04 (0.94, 1.15)	0.467
Renal replacement therapy	0.84 (0.78, 0.91)	<0.001	0.94 (0.82, 1.08)	0.385	0.79 (0.73, 0.87)	<0.001	1.18 (1.00, 1.38)	0.045
Advanced intervention in the ICU	0.74 (0.70, 0.78)	<0.001	0.73 (0.67, 0.80)	<0.001	0.74 (0.70, 0.79)	<0.001	0.97 (0.87, 1.07)	0.513
Advanced intervention outside the ICU	0.60 (0.57, 0.63)	<0.001	0.59 (0.54, 0.64)	<0.001	0.60 (0.56, 0.63)	<0.001	0.97 (0.88, 1.08)	0.610

Supplementary Table 5. Multivariable model for ICU mortality comparing women and men (Model 1) in the subgroups of in-hospital and out-of-hospital cardiac arrests.

Abbreviations: ICU *Intensive care unit*; HR, *hazard ratio*; LOS ICU *length of stay*; NEMS *Nine Equivalents of Nursing Manpower Use Score*.

Factors	Overall		Women		Men		Ratio Women:Men	
	Adj.HR (95%CI)	p-value	Adj.HR (95%CI)	p-value	Adj.HR (95%CI)	p-value	Adj.HR (95%CI)	p-value
In-hospital cardiac arrest								
N	5,041		1,751		3,290		5,041	
Female sex	1.03 (0.94, 1.13)	0.481						
Age categories								
Age<45	1.07 (0.86, 1.34)	0.522	0.95 (0.67, 1.35)	0.786	1.11 (0.84, 1.47)	0.453	0.87 (0.55, 1.36)	0.531
Age 45-65	1.00		1.00		1.00		1.00	
Age>65	1.59 (1.43, 1.76)	<0.001	1.37 (1.14, 1.64)	0.001	1.63 (1.43, 1.85)	<0.001	0.85 (0.68, 1.06)	0.157
Sum NEMS of all nursing shifts/LOS x 100	1.14 (1.13, 1.15)	<0.001	1.16 (1.15, 1.17)	<0.001	1.15 (1.14, 1.16)	<0.001	1.01 (1.01, 1.02)	0.002
Interventions before ICU admission								
No intervention	1.00		1.00		1.00		1.00	
Percutaneous coronary intervention	0.61 (0.52, 0.72)	<0.001	0.63 (0.46, 0.85)	0.003	0.60 (0.50, 0.73)	<0.001	1.06 (0.73, 1.52)	0.769
Cardiac surgery/other cardiovascular interventions	0.68 (0.57, 0.83)	<0.001	0.91 (0.69, 1.19)	0.485	0.64 (0.50, 0.82)	0.001	1.42 (0.98, 2.06)	0.067
Non-cardiac surgery	0.93 (0.82, 1.06)	0.269	0.78 (0.63, 0.97)	0.023	1.07 (0.91, 1.25)	0.411	0.75 (0.57, 0.97)	0.030
Type of intensive care unit								
Interdisciplinary ICU	1.00		1.00		1.00		1.00	
Medical ICU	0.95 (0.80, 1.12)	0.522	0.87 (0.64, 1.17)	0.344	0.98 (0.80, 1.20)	0.855	0.89 (0.62, 1.28)	0.538
Surgical ICU	0.63 (0.49, 0.80)	<0.001	1.27 (0.90, 1.80)	0.168	0.46 (0.32, 0.65)	<0.001	2.79 (1.71, 4.55)	<0.001
Other	1.05 (0.43, 2.53)	0.920	0.92 (0.22, 3.84)	0.908	1.09 (0.34, 3.44)	0.889	0.77 (0.12, 4.78)	0.777
Level of care								
Tertiary university hospital	1.00		1.00		1.00		1.00	
Large hospital	1.10 (0.96, 1.25)	0.169	1.32 (1.06, 1.64)	0.012	1.05 (0.89, 1.23)	0.563	1.22 (0.93, 1.59)	0.156
Regional hospital/other	1.02 (0.91, 1.13)	0.742	1.07 (0.89, 1.28)	0.490	1.01 (0.88, 1.15)	0.929	1.05 (0.83, 1.32)	0.683
Interventions during the ICU stay								
Intravenous medications	0.77 (0.57, 1.05)	0.101	0.21 (0.13, 0.33)	<0.001	1.35 (0.89, 2.03)	0.154	0.16 (0.08, 0.29)	<0.001
Mechanical ventilation	0.80 (0.67, 0.95)	0.010	0.78 (0.59, 1.04)	0.092	0.74 (0.60, 0.92)	0.006	1.07 (0.75, 1.53)	0.708
Non-invasive respiratory support	0.15 (0.13, 0.17)	<0.001	0.14 (0.11, 0.17)	<0.001	0.15 (0.13, 0.17)	<0.001	0.92 (0.74, 1.16)	0.487
One vasoactive	0.60 (0.54, 0.67)	<0.001	0.66 (0.55, 0.79)	<0.001	0.55 (0.48, 0.63)	<0.001	1.25 (1.00, 1.57)	0.048
Multiple vasoactive drugs	1.09 (0.99, 1.21)	0.072	1.06 (0.90, 1.25)	0.466	1.10 (0.98, 1.25)	0.116	0.94 (0.76, 1.15)	0.516
Renal replacement therapy	0.78 (0.67, 0.90)	0.001	0.83 (0.64, 1.08)	0.156	0.76 (0.64, 0.92)	0.004	1.08 (0.78, 1.48)	0.646
Advanced intervention in the ICU	0.85 (0.77, 0.94)	0.002	0.93 (0.79, 1.11)	0.415	0.81 (0.71, 0.93)	0.002	1.12 (0.91, 1.39)	0.284
Advanced intervention outside the ICU	0.61 (0.55, 0.67)	<0.001	0.69 (0.59, 0.81)	<0.001	0.56 (0.50, 0.63)	<0.001	1.24 (1.02, 1.52)	0.032
Out-of-hospital cardiac arrest								
N	16,487		4,814		11,673		16,487	
Female sex	1.19 (1.12, 1.25)	<0.001						
Age categories								
Age<45	0.94 (0.86, 1.04)	0.249	0.88 (0.75, 1.04)	0.143	1.03 (0.92, 1.17)	0.580	0.87 (0.70, 1.06)	0.170
Age 45-65	1.00		1.00		1.00		1.00	
Age>65	1.40 (1.32, 1.48)	<0.001	1.35 (1.22, 1.49)	<0.001	1.42 (1.32, 1.51)	<0.001	0.93 (0.82, 1.04)	0.208
Sum NEMS of all nursing shifts/LOS x 100	1.24 (1.23, 1.25)	<0.001	1.52 (1.48, 1.56)	<0.001	1.22 (1.21, 1.24)	<0.001	1.06 (1.05, 1.07)	<0.001
Interventions before ICU admission								
No intervention	1.00		1.00		1.00		1.00	
Percutaneous coronary intervention	0.68 (0.64, 0.73)	<0.001	0.69 (0.61, 0.79)	<0.001	0.69 (0.64, 0.74)	<0.001	0.97 (0.84, 1.11)	0.630
Cardiac surgery/other	0.83 (0.75, 0.92)	<0.001	0.85 (0.71, 1.01)	0.066	0.81 (0.71, 0.91)	0.001	1.04 (0.83, 1.29)	0.755

cardiovascular interventions								
Non-cardiac surgery	0.85 (0.79, 0.92)	<0.001	0.90 (0.79, 1.02)	0.105	0.82 (0.74, 0.91)	<0.001	1.03 (0.87, 1.22)	0.712
Type of intensive care unit								
Interdisciplinary ICU	1.00		1.00		1.00		1.00	
Medical ICU	0.94 (0.88, 1.01)	0.103	0.93 (0.82, 1.06)	0.283	0.95 (0.88, 1.04)	0.264	0.97 (0.83, 1.12)	0.670
Surgical ICU	1.02 (0.91, 1.15)	0.699	1.13 (0.94, 1.37)	0.199	0.98 (0.84, 1.13)	0.746	1.14 (0.90, 1.45)	0.276
Other	1.24 (0.97, 1.59)	0.079	0.99 (0.57, 1.73)	0.980	1.32 (1.01, 1.74)	0.044	0.75 (0.40, 1.39)	0.357
Level of care								
Tertiary university hospital	1.00		1.00		1.00		1.00	
Large hospital	1.16 (1.09, 1.24)	<0.001	1.15 (1.03, 1.29)	0.015	1.14 (1.05, 1.23)	0.001	0.99 (0.86, 1.13)	0.854
Regional hospital/other	0.87 (0.82, 0.92)	<0.001	0.79 (0.70, 0.88)	<0.001	0.88 (0.81, 0.95)	0.001	0.87 (0.76, 1.00)	0.043
Interventions during the ICU stay								
Intravenous medications	0.76 (0.56, 1.03)	0.080	0.39 (0.24, 0.64)	<0.001	0.98 (0.67, 1.45)	0.934	0.47 (0.25, 0.87)	0.015
Mechanical ventilation	1.42 (1.23, 1.63)	<0.001	0.87 (0.70, 1.10)	0.247	1.61 (1.36, 1.92)	<0.001	0.57 (0.43, 0.75)	<0.001
Non-invasive respiratory support	0.13 (0.12, 0.14)	<0.001	0.16 (0.14, 0.17)	<0.001	0.12 (0.11, 0.13)	<0.001	1.20 (1.05, 1.38)	0.007
One vasoactive	0.45 (0.43, 0.48)	<0.001	0.51 (0.46, 0.57)	<0.001	0.44 (0.41, 0.47)	<0.001	1.11 (0.98, 1.26)	0.109
Multiple vasoactive drugs	1.15 (1.09, 1.22)	<0.001	1.12 (1.02, 1.24)	0.020	1.12 (1.04, 1.19)	0.001	1.12 (1.00, 1.26)	0.059
Renal replacement therapy	0.84 (0.77, 0.91)	<0.001	0.99 (0.85, 1.16)	0.913	0.78 (0.70, 0.86)	<0.001	1.24 (1.03, 1.50)	0.024
Advanced intervention in the ICU	0.73 (0.69, 0.77)	<0.001	0.70 (0.64, 0.78)	<0.001	0.74 (0.69, 0.79)	<0.001	0.93 (0.83, 1.05)	0.221
Advanced intervention outside the ICU	0.58 (0.55, 0.61)	<0.001	0.53 (0.49, 0.59)	<0.001	0.60 (0.56, 0.64)	<0.001	0.89 (0.79, 1.00)	0.046

Supplementary Table 6. Treatment limitations/withdrawal of life-sustaining therapies.

Abbreviations: ICU Intensive care unit.

	Total	Men	Women	
N	11,202	7,799	3,403	
No Treatment limitations	6,596 (58.9%)	4,783 (61.3%)	1,813 (53.3%)	<0.001
Treatment limitations	4,606 (41.1%)	3,016 (38.7%)	1,590 (46.7%)	
Therapeutic limitations				<0.001
none	6,931 (61.9%)	5,005 (64.2%)	1,926 (56.6%)	
at ICU admission	987 (8.8%)	602 (7.7%)	385 (11.3%)	
during the ICU stay	3,284 (29.3%)	2,192 (28.1%)	1,092 (32.1%)	
Graduation of treatment limitations				<0.001
None	6,667 (59.5%)	4,826 (61.9%)	1,841 (54.1%)	
Limited in time	139 (1.2%)	84 (1.1%)	55 (1.6%)	
Limited in content	1,773 (15.8%)	1,154 (14.8%)	619 (18.2%)	
Palliation/withdrawal of life-sustaining therapies	2,623 (23.4%)	1,735 (22.3%)	888 (26.1%)	
Reason for treatment limitations				<0.001
None	6,711 (59.9%)	4,861 (62.3%)	1,850 (54.3%)	
Patient's wish	833 (7.4%)	540 (6.9%)	293 (8.6%)	
Health advocate's wish	686 (6.1%)	461 (5.9%)	225 (6.6%)	
Medical decision	2,972 (26.5%)	1,937 (24.8%)	1,035 (30.4%)	

Supplementary Table 7. Multivariable model for ICU mortality comparing women and men in the subgroup of patients with information regarding treatment limitations (Model 2)

Abbreviations: ICU *Intensive care unit*; HR, *hazard ratio*; LOS ICU *length of stay*; NEMS *Nine Equivalents of Nursing Manpower Use Score*.

Factors	Overall (n = 21,528)		Women (n = 6,565)		Men (n = 14,963)		Ratio Women:Men	
	Adj.HR (95%CI)	p-value	Adj.HR (95%CI)	p-value	Adj.HR (95%CI)	p-value	Adj.HR (95%CI)	p-value
Female sex	1.09 (1.02, 1.16)	0.013						
Age								
Age<45	0.96 (0.85, 1.09)	0.546	1.01 (0.82, 1.25)	0.893	0.95 (0.81, 1.10)	0.476	1.07 (0.83, 1.38)	0.623
Age 45-65	1.00		1.00		1.00		1.00	
Age>65	1.32 (1.23, 1.41)	<0.001	1.34 (1.18, 1.51)	<0.001	1.30 (1.20, 1.41)	<0.001	1.03 (0.89, 1.19)	0.706
In-hospital cardiac arrest	1.21 (1.12, 1.31)	<0.001	1.06 (0.92, 1.21)	0.427	1.29 (1.17, 1.42)	<0.001	0.82 (0.69, 0.96)	0.016
Sum NEMS of all nursing shifts/LoS x 100	1.20 (1.19, 1.21)	<0.001	1.23 (1.21, 1.24)	<0.001	1.20 (1.19, 1.21)	<0.001	1.02 (1.01, 1.03)	<0.001
Procedures/interventions before ICU admission								
No intervention	1.00		1.00		1.00		1.00	
Percutaneous coronary Intervention	0.74 (0.69, 0.80)	<0.001	0.75 (0.65, 0.88)	<0.001	0.75 (0.68, 0.82)	<0.001	1.01 (0.85, 1.21)	0.871
Cardiac surgery/other cardiovascular interventions	0.94 (0.83, 1.07)	0.348	0.95 (0.77, 1.18)	0.674	0.94 (0.81, 1.09)	0.398	1.02 (0.79, 1.33)	0.865
Non-cardiac surgery	0.97 (0.88, 1.07)	0.582	0.95 (0.81, 1.12)	0.540	0.99 (0.87, 1.13)	0.915	0.96 (0.79, 1.19)	0.734
Type of intensive care unit								
interdisciplinary ICU	1.00		1.00		1.00		1.00	
medical ICU	0.87 (0.79, 0.96)	0.005	0.82 (0.69, 0.99)	0.036	0.88 (0.78, 0.99)	0.030	0.94 (0.75, 1.17)	0.567
surgical ICU	0.89 (0.75, 1.05)	0.162	1.12 (0.86, 1.47)	0.393	0.78 (0.63, 0.96)	0.021	1.45 (1.03, 2.04)	0.033
Other	1.07 (0.73, 1.56)	0.738	1.01 (0.47, 2.14)	0.988	1.11 (0.71, 1.72)	0.651	0.91 (0.38, 2.18)	0.832
Level of care								
Tertiary university hospital	1.00		1.00		1.00		1.00	
Large hospital	1.18 (1.10, 1.27)	<0.001	1.17 (1.03, 1.34)	0.016	1.18 (1.08, 1.30)	<0.001	0.99 (0.85, 1.17)	0.949
Regional hospital/no categorization	0.90 (0.84, 0.98)	0.012	0.86 (0.75, 0.99)	0.032	0.92 (0.83, 1.01)	0.078	0.94 (0.79, 1.11)	0.439
Treatments during ICU stay								
Intravenous medications	0.56 (0.38, 0.81)	0.002	0.28 (0.16, 0.48)	<0.001	0.84 (0.49, 1.43)	0.511	0.34 (0.16, 0.72)	0.005
Mechanical ventilation	0.24 (0.22, 0.26)	<0.001	0.24 (0.21, 0.28)	<0.001	0.24 (0.22, 0.26)	<0.001	0.98 (0.83, 1.16)	0.820
Additional respiratory support	0.41 (0.38, 0.44)	<0.001	0.45 (0.39, 0.52)	<0.001	0.39 (0.36, 0.43)	<0.001	1.15 (0.98, 1.35)	0.082
1 Vasoactive medication	1.15 (1.08, 1.23)	<0.001	1.14 (1.01, 1.28)	0.031	1.14 (1.05, 1.24)	0.001	0.99 (0.86, 1.13)	0.841
>1 Vasoactive medication	0.75 (0.68, 0.83)	<0.001	0.84 (0.70, 1.01)	0.062	0.71 (0.63, 0.81)	<0.001	1.16 (0.93, 1.45)	0.175
Renal replacement therapy	0.79 (0.74, 0.84)	<0.001	0.79 (0.70, 0.89)	<0.001	0.79 (0.72, 0.86)	<0.001	0.99 (0.86, 1.15)	0.937
Advanced Intervention in the ICU	0.53 (0.50, 0.57)	<0.001	0.50 (0.44, 0.56)	<0.001	0.55 (0.51, 0.60)	<0.001	0.88 (0.77, 1.01)	0.076
Advanced Intervention outside the ICU	0.56 (0.38, 0.81)	0.002	0.28 (0.16, 0.48)	<0.001	0.84 (0.49, 1.43)	0.511	0.34 (0.16, 0.72)	0.005

Treatment limitations/withdrawal of life-sustaining therapies								
None	1.00		1.00		1.00		1.00	
At ICU admission	1.54 (1.30, 1.82)	<0.001	1.86 (1.40, 2.48)	<0.001	1.40 (1.13, 1.72)	0.002	1.34 (0.94, 1.91)	0.108
During the ICU stay	1.17 (1.01, 1.35)	0.039	1.16 (0.91, 1.49)	0.229	1.14 (0.95, 1.36)	0.160	1.03 (0.76, 1.40)	0.866
Graduation of treatment limitations								
None	1.00		1.00		1.00		1.00	
Limited in time	2.56 (1.95, 3.35)	<0.001	2.83 (1.85, 4.33)	<0.001	2.37 (1.67, 3.36)	<0.001	1.20 (0.69, 2.08)	0.519
Limited in content	1.69 (1.42, 2.02)	<0.001	1.42 (1.04, 1.93)	0.026	1.83 (1.47, 2.27)	<0.001	0.77 (0.53, 1.12)	0.173
Palliation/withdrawal of life-sustaining therapies	2.81 (2.37, 3.33)	<0.001	2.43 (1.82, 3.24)	<0.001	3.03 (2.45, 3.73)	<0.001	0.80 (0.56, 1.15)	0.226
Medical decision for treatment limitation	1.14 (1.06, 1.23)	0.001	1.18 (1.03, 1.35)	0.017	1.13 (1.03, 1.24)	0.012	1.04 (0.88, 1.23)	0.618

Supplementary Table 8. Incidence rate ratios (IRR) of intensive care unit admissions in patients after cardiac arrest stratified by age and sex categories.

Abbreviations: IRR Incidence rate ratio 95%CI 95% Confidence interval.

Sex & Age Group	IRR	p-value	95% CI
Men age <20 years	1.89	0.008	1.18-3.04
Men age 20-24 years	1.15	0.372	0.85-1.56
Men age 25-29 years	1.23	0.154	0.93-1.62
Men age 30-34 years	1.05	0.671	0.83-1.34
Men age 35-39 years	1.12	0.291	0.91-1.37
Men age 40-44 years	0.93	0.374	0.78-1.10
Men age 45-49 years	1.08	0.269	0.95-1.22
Men age 50-54 years	1.05	0.422	0.94-1.17
Men age 55-59 years	1.16	0.003	1.05-1.28
Men age 60-64 years	1.13	0.007	1.03-1.23
Men age 65-69 years	1.16	0.001	1.06-1.26
Men age 70-74 years	1.09	0.034	1.01-1.18
Men age 75-79 years	1.16	<0.001	1.08-1.26
Men age 80-84 years	1.23	<0.001	1.14-1.34
Men age 85-89 years	1.31	<0.001	1.17-1.47
Men age 90-94 years	1.18	0.153	0.94-1.49
Men age ≥95 years	0.95	0.876	0.49-1.83

Supplementary Table 9. Intensive care unit length of stay in days stratified by ICU survival status.
Abbreviations: ICU Intensive care unit; IQR Interquartile range.

ICU length of stay (days)	Overall			In-hospital cardiac arrest			Out-of-hospital cardiac arrest		
	Survivors	Non-survivors	p-value	Survivors	Non-survivors	p-value	Survivors	Non-survivors	p-value
Men	N=9,610	N=5,456		N=2,020	N=1,326		N=7,590	N=4,130	
Median (IQR)	3 (1-7)	2 (0-4)	<0.001	3 (1-7)	1 (0-3)	<0.001	3 (2-7)	2 (1-4)	<0.001
Women	N=3,854	N=2,772		N=1,038	N=737		N=2,816	N=2,035	
Median (IQR)	3 (1-6)	1 (0-3)	<0.001	2 (1-5)	1 (0-3)	<0.001	3 (1-6)	2 (0-4)	<0.001
Total	N=13,464	N=8,228		N=3,058	N=2,063		N=10,406	N=6,165	
Median (IQR)	3 (1-6)	2 (0-4)	<0.001	2 (1-6)	1 (0-3)	<0.001	3 (1-7)	2 (0-4)	<0.001
	Survivors	Non-survivors		Survivors	Non-survivors		Survivors	Non-survivors	
	Men vs women			Men vs women			Men vs women		
p-value	<0.001	<0.001		<0.001	0.21		<0.001	<0.001	

Supplementary References

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