

## SUPPLEMENTARY DATA

**Table S1.** Definition of recovered and encoded variables

Variable	Definition	Categorization
Sex	Set of biological attributes that are associated with physical and physiological features	1. Male 2. Female
Cath-Lab	Data from the Detailed Medical Equipment Database maintained by the Ministry of Health provided accurate and up-to-date information on hospitals with Cath-Labs. To ensure the reliability of our findings, we conducted additional online searches to verify equipment availability and operational timelines.	1. Yes 2. No
Cath-Lab Characteristics	Information based on Detailed Medical Equipment Database in 2025 <ul style="list-style-type: none"> <li>Daily Mean of Procedures</li> <li>Professionals per Shift in Cath-Lab</li> <li>Type of Angiograph (Monoplane or Biplane Arch)</li> <li>Availability on each shift (morning, afternoon and night)</li> </ul>	1. Procedure (continuous) 2. Professionals (continuous) 3. Angiograph (in definition) 4. Shift availability (yes or no)
Age		Continuous
Death	During the emergency stay patient died. Else, it was healthy discharged or hospitalized.	1. Yes 2. No
Type of Bed	Type of assigned bed during emergency stay	1. Observation 2. Shock 3. No Bed
Regions	<ul style="list-style-type: none"> <li>South-Southeast: Campeche, Chiapas, Guerrero, Oaxaca, Puebla, Quintana Roo, Tabasco, Veracruz and Yucatán</li> <li>Central-West: Nayarit, Jalisco, Zacatecas, Colima, Michoacán, Guanajuato, San Luis Potosí, Aguascalientes</li> <li>Central: Querétaro, Mexico State, Mexico City, Morelos, Tlaxcala and Hidalgo</li> <li>Northeast: Durango, Chihuahua, Tamaulipas, Nuevo Leon and Coahuila</li> <li>Northwest: Baja California Sur, Baja California, Sonora and Sinaloa</li> </ul>	1. South-Southeast 2. Central-West 3. Central 4. Northeast 5. Northwest
Length of Stay	Difference between the time of admission (first medical contact in emergency service) and of discharge	Continuous
Out-of-Hours	Any hours occurring during nightshift, weekends or holidays	1. Yes 2. No
Nightshift	Shift from 19:00 h to 6:59 h	1. Yes 2. No
Weekends	Days of the weeks comprising Saturday and Sunday	1. Yes 2. No
Holidays	According to Article 74 of the Mexican Federal Labor Law: January 1, February 5, March 21, May 1, September 16, November 20, and December 25	1. Yes 2. No
Presence of COVID-19	Time period between March 23, 2020, to May 9, 2023	1. Yes 2. No
AMI-Type	Based on ICD-10 Codes: <ol style="list-style-type: none"> <li>I210: Anterior Wall</li> <li>I211: Inferior Wall</li> <li>I212: Other sites</li> <li>I213: Transmural</li> <li>I214: Subendocardic</li> <li>I219: Unspecified</li> </ol>	1. Anterior Wall 2. Inferior Wall 3. Other Sites 4. Transmural 5. Subendocardic 6. Unspecified

AMI, Acute myocardial infarction; Cath-Lab, Cardiac Catheterization Laboratory; ICD, International Classification of Diseases.

**Table S2.** Distribution of out-of-hours admissions by cath-lab availability

Out-of-Hours Components		No Cath-Lab (n = 13 207)		Cath-Lab (n = 2 110)	
		n	%	n	%
Nightshift Admission <sup>b</sup>	No	4115	30.4	574	25.3
	Yes	9092	68.0	1536	70.9
Weekend <sup>b</sup>	No	6638	49.4	1176	53.6
	Yes	6569	48.9	934	42.2
Holiday <sup>b</sup>	No	12750	96.2	2045	96.1
	Yes	457	3.2	65	2.4

Cath-Lab, Cardiac Catheterization Laboratory.

**Table S3.** Characteristics of participants in each group by cardiac catheterization laboratory and out-of-hour admission

Variables		No Cath-Lab				P-value	Cath-Lab				P-value
		On-hour		Out-hour			On-hour		Out-hour		
		(n = 11 409 )		(n = 13 207)			(n = 2 405)		(n = 2 110)		
		n	%	n	%		n	%	n	%	
Age		62 ± 15		63 ± 15		.286	60 ± 13		61 ± 14		.012*
Length of Stay (days)		0.19 ± 0.74		0.22 ± 0.83		.0001*	0.47 ± 1.75		0.63 ± 1.89		.003*
Year of Admission		2019 ± 2		2019 ± 3		.0001*	2020 ± 2		2019 ± 1		.000*
Sex	Male	7589	65.6	8590	64.2	.015*	1775	72.0	1502	69.2	.049*
	Female	3820	32.6	4617	34.1		630	24.5	608	26.9	
Death	No	8395	72.8	8850	66.2	.0001*	2215	91.0	1817	84.6	.0001*
	Yes	3014	25.6	4357	32.2		190	6.9	293	12.5	
COVID-19 Pandemic	No	7627	66.0	8533	63.8	.0001*	1205	48.1	1142	52.0	.007
	Yes	3782	32.3	4674	34.6		1200	47.9	968	43.8	
Type of Bed	Observation	6751	58.3	7320	54.6	.0001*	1410	56.7	1045	47.4	.0001*
	Shock	2007	16.9	2650	19.4		542	20.9	551	24.3	
Territorial Regions	No bed	2651	22.5	3237	23.8	.0001*	453	17.3	514	22.6	.0001*
	South-Southeast	2369	20.0	2675	19.6		250	9.2	268	11.3	
Territorial Regions	Center-West	1273	10.6	1652	12.0	.0001*	134	4.7	161	6.6	.0001*
	Center	3190	27.1	3871	28.5		865	34.1	640	28.4	
Territorial Regions	Northeast	3371	28.7	3518	25.9	.0001*	786	30.8	745	33.3	.0001*
	Northwest	1206	10.0	1491	10.8		370	14.0	296	12.6	
AMI-Type	Anterior Wall	212	1.6	246	1.6	.217	157	5.6	135	5.4	.163
	Inferior Wall	128	0.9	171	1.1		134	4.7	138	5.5	
AMI-Type	Other sites	87	0.6	114	0.7	.217	32	0.9	39	1.3	.163
	Transmural	104	0.7	135	0.9		42	1.3	54	1.9	
AMI-Type	Subendocardic	73	0.5	113	0.7	.217	32	0.9	29	0.9	.163
	Unspecified	10805	94.3	12428	93.7		2008	82.0	1715	79.6	

Cath-Lab, Cardiac Catheterization Laboratory; \* $P < .05$  of  $\chi^2$  and t tests; AMI, Acute Myocardial Infarction.

**Table S4.** Operational characteristics of cath-labs during on-hour and out-of-hour periods

Cath-Lab Characteristics		On-hour		Out-of-hour		P-value
		(n = 2 405)		(n = 2 110)		
		n	%	n	%	
Daily Mean of Procedures		2.68 ± 1.70		2.58 ± 1.81		.002*
Professionals per Shift in Cath-Lab		3.08 ± 2.68		2.81 ± 2.12		.0001*
Type of Angiograph	Monoplane	2152	89.5	1849	87.6	.051
	Biplane	253	10.5	261	12.4	
Morning Shift	No	0	0	0	0	1
Availability	Yes	2405	100	2110	100	
Afternoon Shift Availability	No	1520	63.2	1541	73.0	.0001*
	Yes	885	36.8	569	27.0	
Nightshift Availability	No	1040	43.2	1076	51.0	.0001*
	Yes	1365	56.8	1034	49.0	
Weekend Availability	No	1142	47.5	1204	57.1	.0001*
	Yes	1263	52.5	906	42.9	

Cath-Lab, Cardiac Catheterization Laboratory. \* $P < .05$  of  $\chi^2$  and t tests.