

冠動脈外科学会学術委員会

2024年レジストリー報告 (2023年分データ)

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JACAS、JCVSD

第28回冠動脈外科学会学術大会 京王プラザホテル
2024/07/11



JACAS Academic Committee

Annual Registry Report in 2024 (for Data of 2023)

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第28回冠動脈外科学会学術大会 京王プラザホテル
2024/07/11



The 28th Annual Meeting of the Japanese Association for Coronary Artery Surgery

Disclosure of COI

本村昇、齋藤綾、隈丸拓、西村志織、竹村博文
JACAS学術委員会、JCVSD

**There are no businesses, etc. related to COI
that should be disclosed in regard to the
subject presentation, except Kumamaru and
Nishimura (members of HQA).**

Yearly number of CABG (by procedure- base) 2023

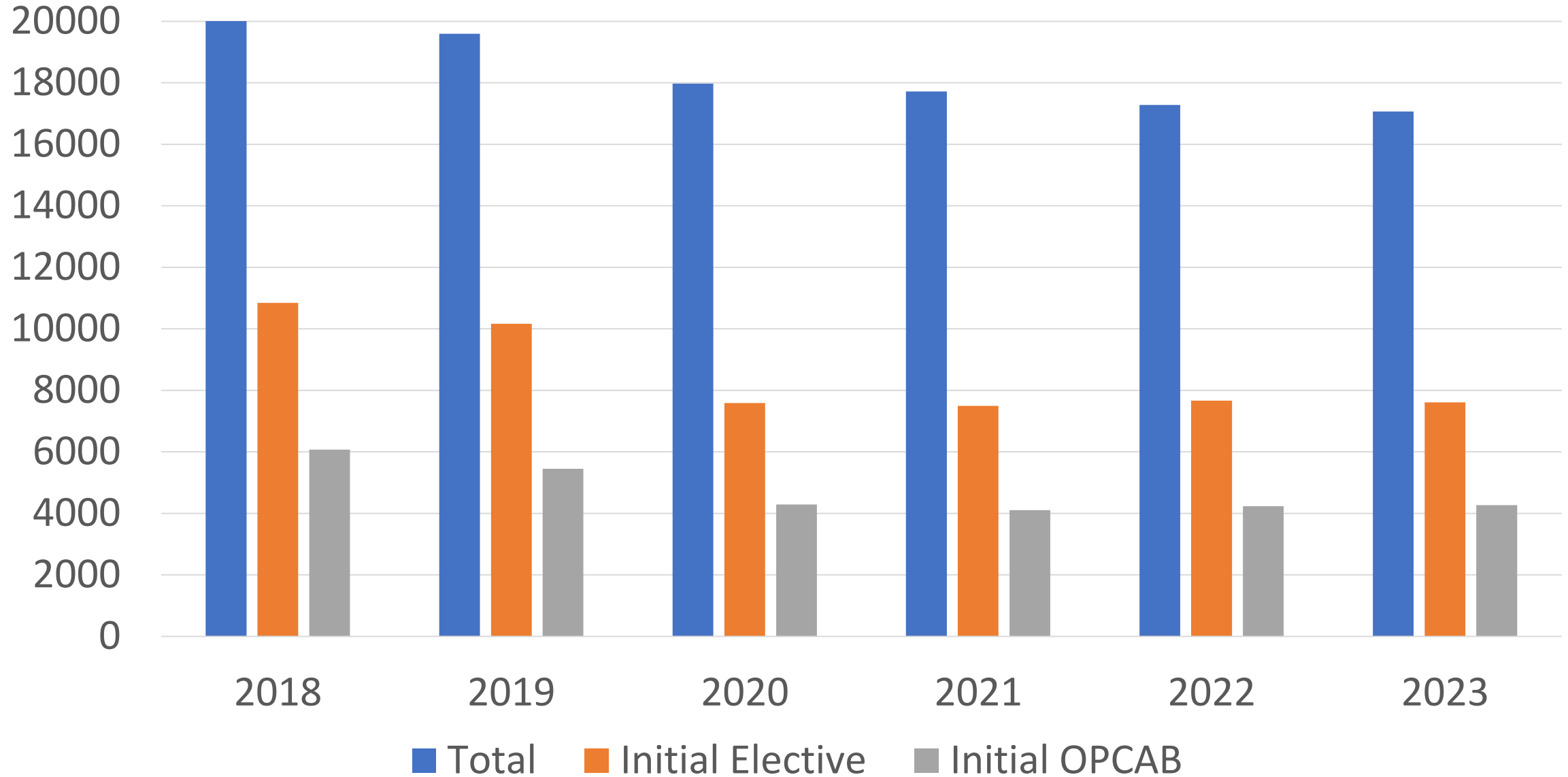
		2023		2022
Yearly total number		17,064		17,277
Isolated CABG			Initial elective	Non-elective
		11,041 (65%)	7,610	3,431
	OPCAB (intended)		4,264 56%	1,672 (48%)
	ONCAB (intended)		3,346 (44%)	1,759 (51%)
Concomitant CABG		6,023 (35%)		6,118 (35%)



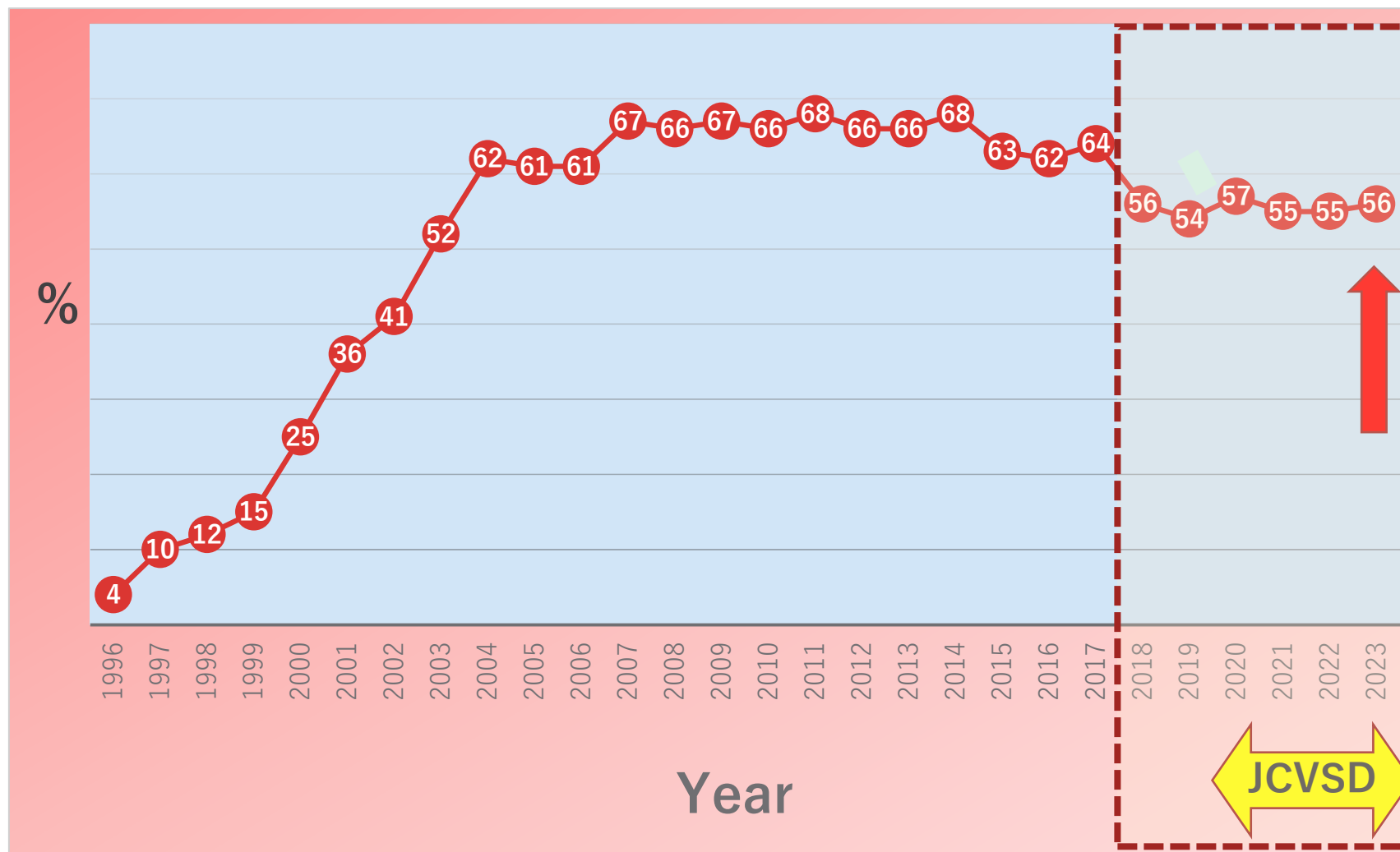
Yearly number of CABG (by procedure- base)

		2023 [前年比]			2022		
Total Number		17,064 [-1.2%]			17,277		
Isolated CABG			Initial elective	Non-elective		Initial elective	Non-elective
		11,041 [-1.1%]	7,610 [-1%]	3,431 [-1.8%]	11,159	7,663	3,496
	OPCAB (intended)		4,264 [+0.8%]	1,672 [+3.7%]		4,232	1,613
	ONCAB (intended)		3,346 [-2.5%]	1,759 [-6.6%]		3,431	1,883
Concomitant CABG		6,023 [-2.6%]			6,118		

Yearly Trend of CABG (by procedure- base)



Changes of OPCAB rate (Initial elective CABG)



Operative mortality

= 30 day operative mortality

≠ in Hospital mortality

In-hospital mortality was defined as death at the institution where surgery was performed.

Operative mortality was defined as death during the same hospitalization as surgery or after discharge but within 30 days of the procedure

Mortality: Definition

Operative mortality : definition
in STS National Database / JCVSD

(1) all deaths, regardless of cause, occurring during the hospitalization in which the operation was performed, even if after 30 days (including patients transferred to other acute care facilities);

and
(2) all deaths, regardless of cause, occurring after discharge from the hospital, but before the end of postoperative day 30.

Mortality- isolated CABG cases 2023

		N	30-day mortality		Operative mortality	
Isolated cases		11,041	197	1.8%	301	2.7%
Isolated, Initial, Elective		7,610	64	0.8%	105	1.4%
	Off-pump Intended	4,267	26	0.6%	43	1.0%
	Completed	4,179	25	0.6%	40	1.0%
	Converted	85 2.0%	1	1.2%	3	3.5%
	On-pump Intended	3,346	38	1.1%	62	1.9%
	Arrest	1,428	21	1.5%	32	2.2%
	Non-arrest, Vf	1,246	15	1.2%	24	1.9%
	No information	672	2	0.3%	6	0.9%

2024/07 Operative mortality = 30 day operative mortality ≠ Hospital mortality



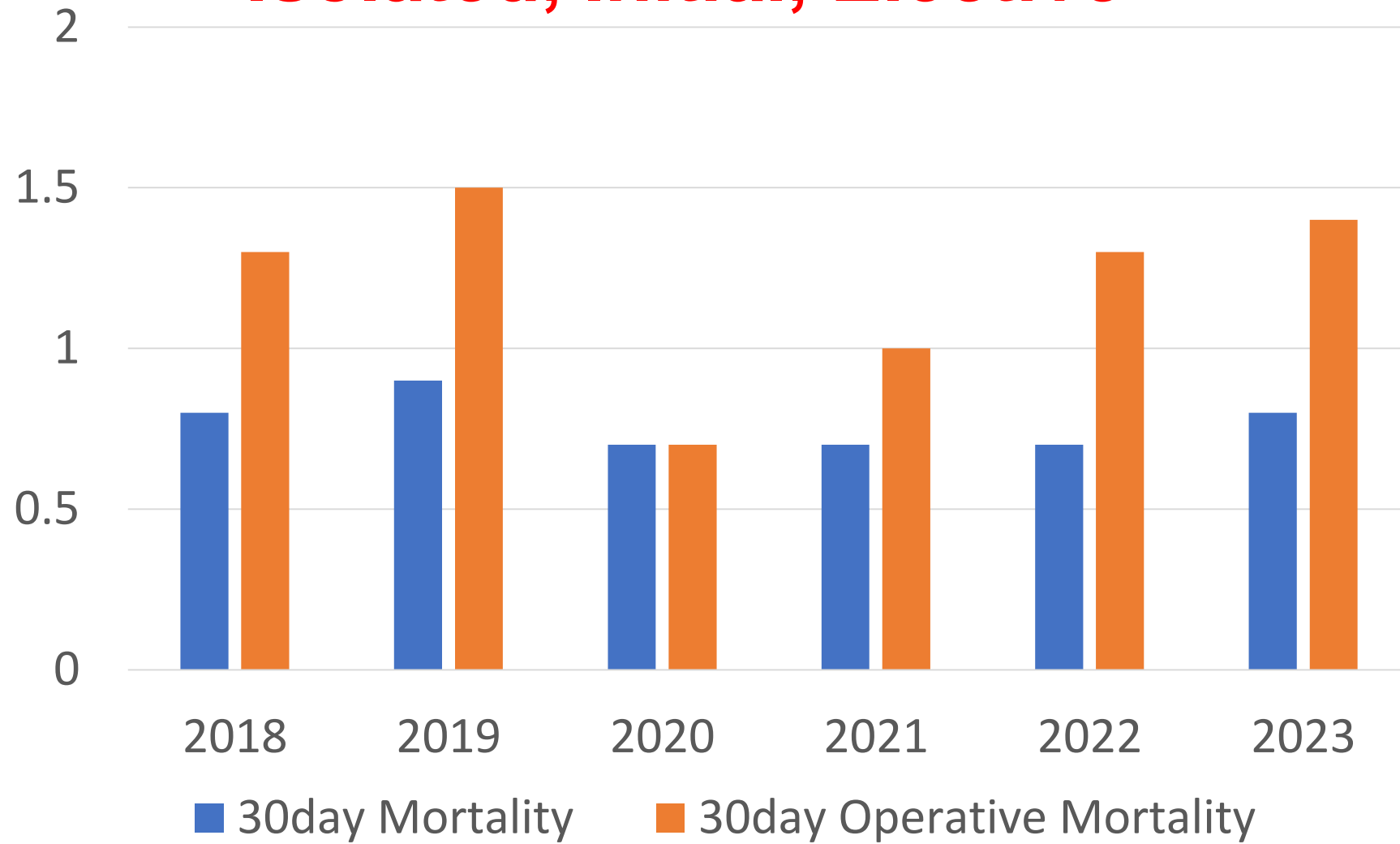
Mortality- isolated CABG cases 2023 [2022]

		N	30-day mortality		Operative mortality	
Isolated cases		11,041	197	1.8% [2.0]	301	2.7% [3.0]
Isolated, Initial, Elective		7,610	64	0.8% [0.7]	105	1.4% [1.3]
	Off-pump Intended	4,267	26	0.6% [0.7]	43	1.0% [1.1]
	Completed	4,179	25	0.6% [0.7]	40	1.0% [1.0]
	Converted	85 2.0%	1	1.2% [4.8]	3	3.5% [6.0]
	On-pump Intended	3,346	38	1.1% [0.8]	62	1.9% [1.5]
	Arrest	1,428	21	1.5% [0.6]	32	2.2% [1.1]
	Non-arrest, Vf	1,246	15	1.2% [0.9]	24	1.9% [2.3]
	No information	672	2	0.3% [0.9]	6	0.9% [1.0]

2024/07 Operative mortality = 30 day operative mortality ≠ Hospital mortality

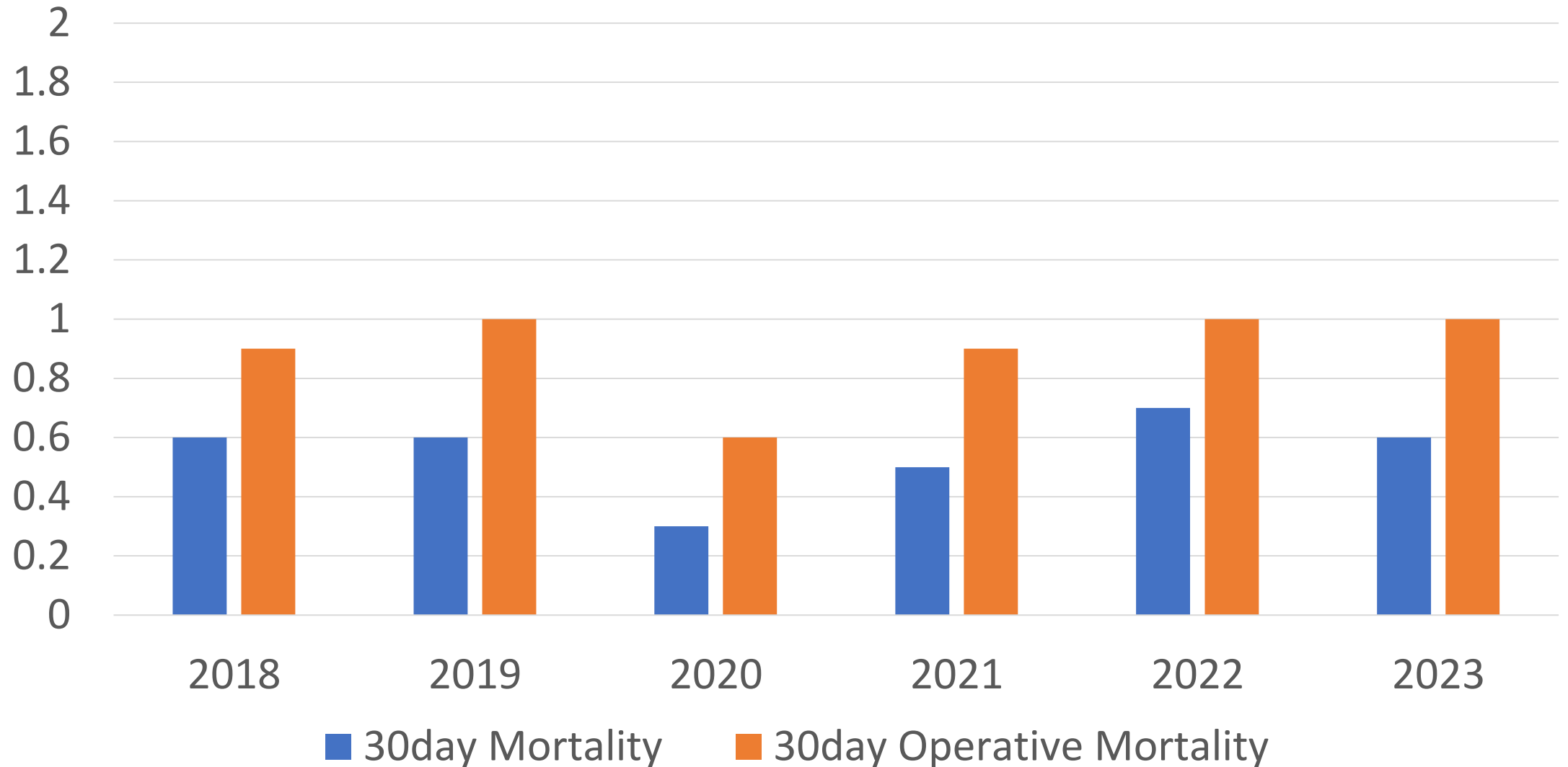


Yearly Trend of Mortality (30-day, 30-day Operative Mortality) Isolated, Initial, Elective

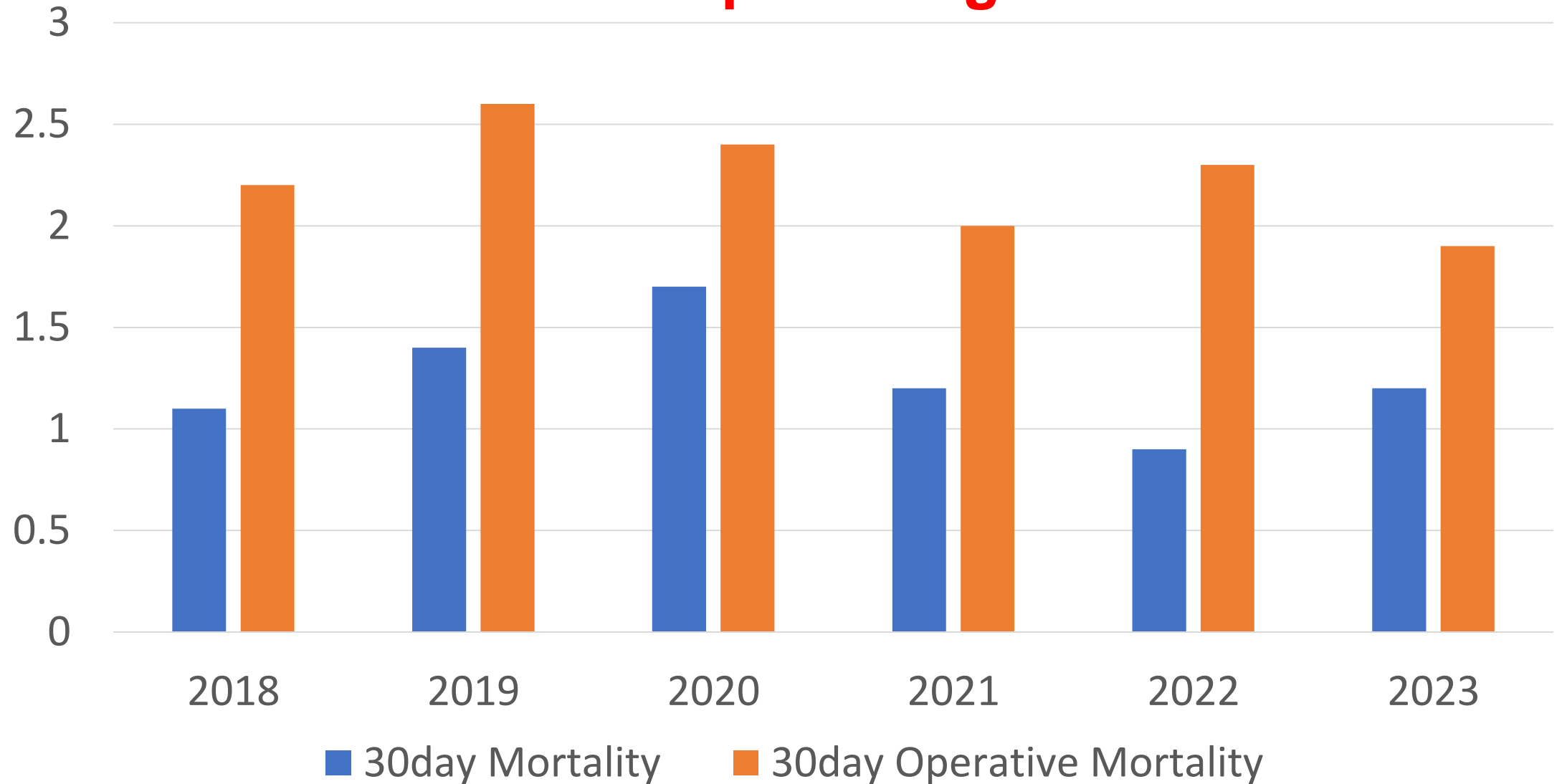


Yearly Trend of Mortality (30-day, 30-day Operative Mortality)

OPCAB Completed



Yearly Trend of Mortality (30-day, 30-day Operative Mortality) On Pump Beating

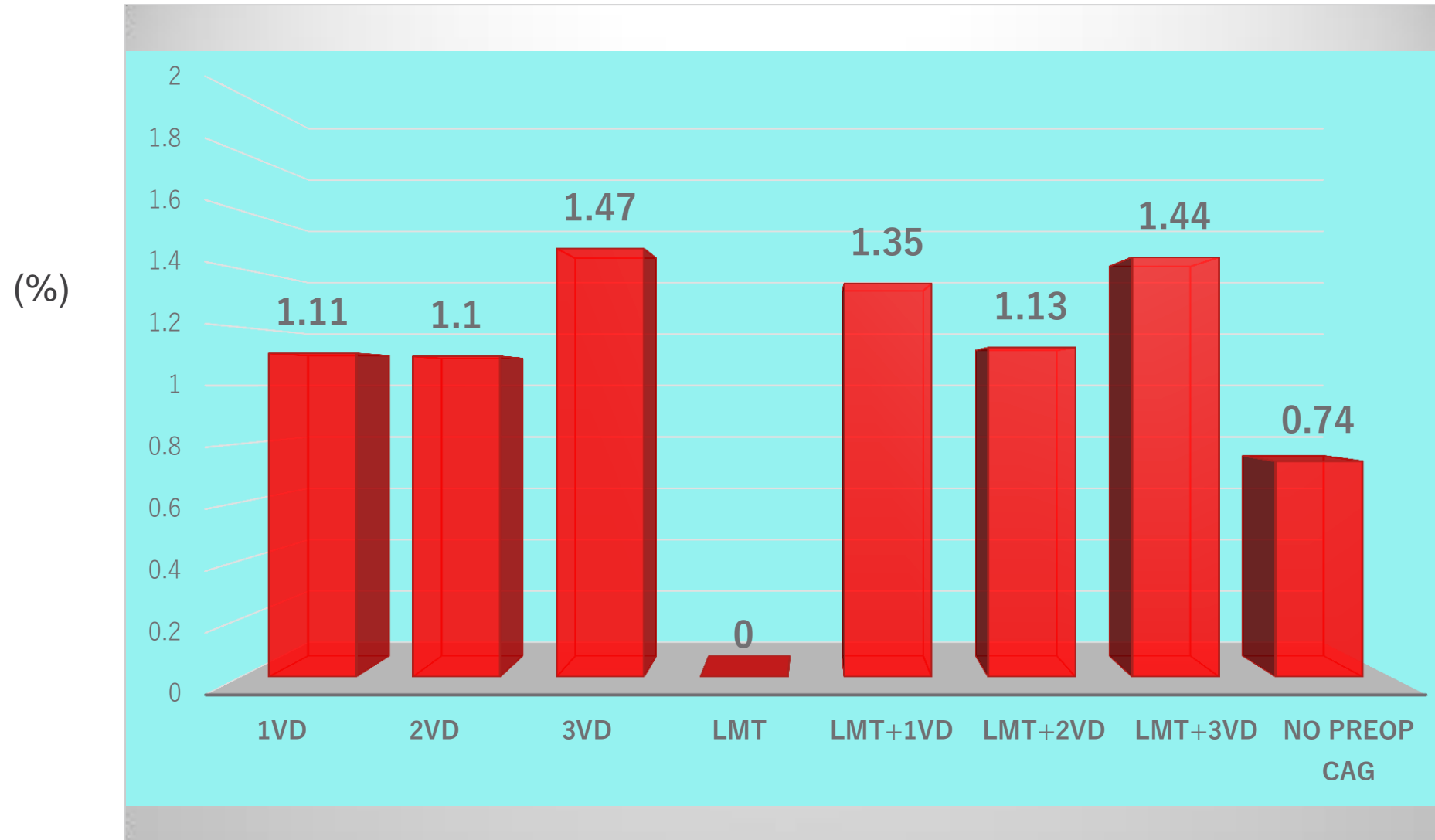


Gender distribution 2023

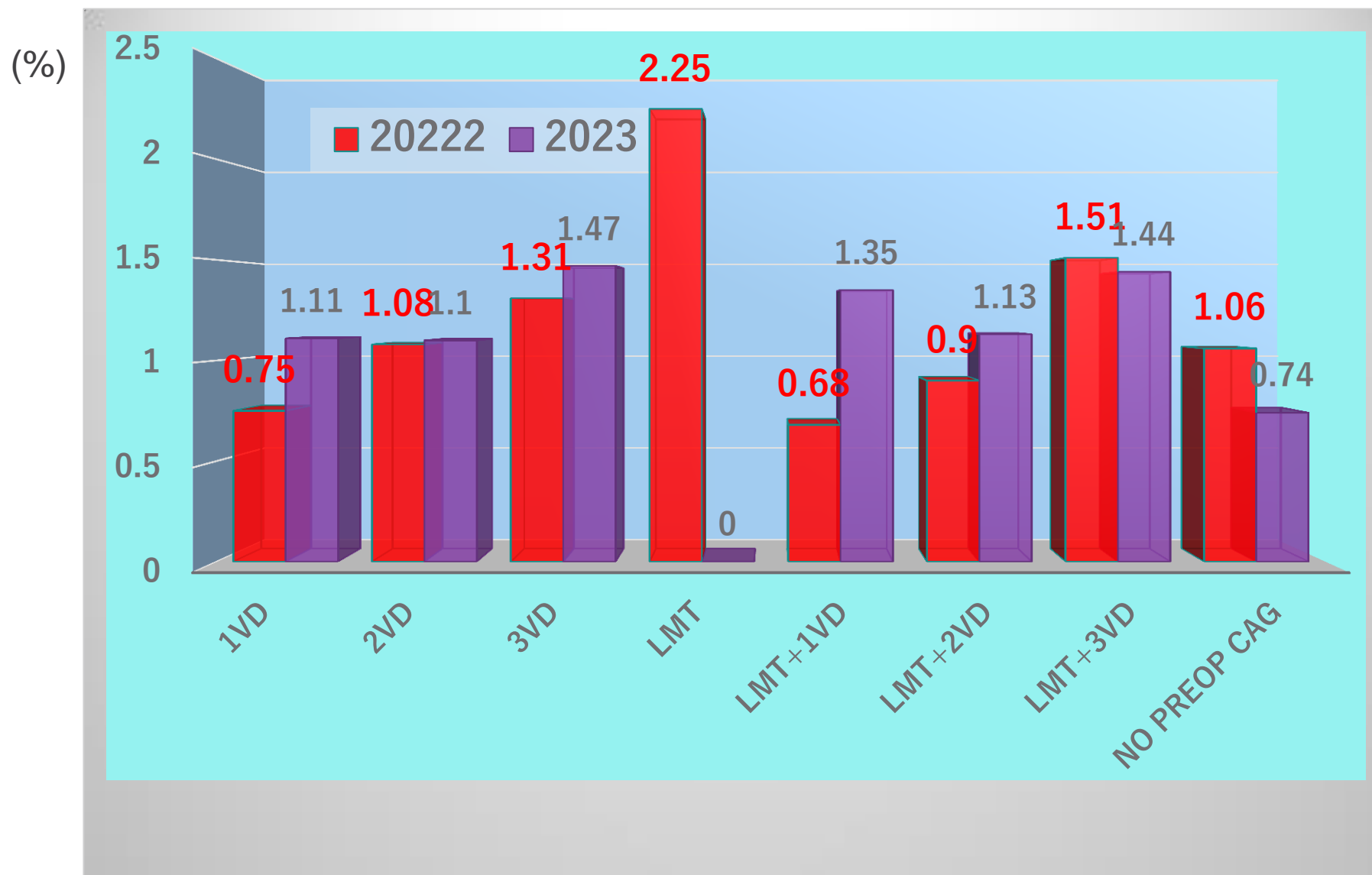
	Female	Male	Total	(2022)
< 50	76	465	541 ↑	535
50 – 59	153	1263	1416 ↓	1,456
60 – 69	400	2368	2768 ↓	2,779
70 – 79	1008	3643	4651 ↓	4,665
80 =<	493	1172	1665 ↓	1,724
Total	2130	8911	11041	11,159



Operative Mortality by extent of CAD(%) 2023



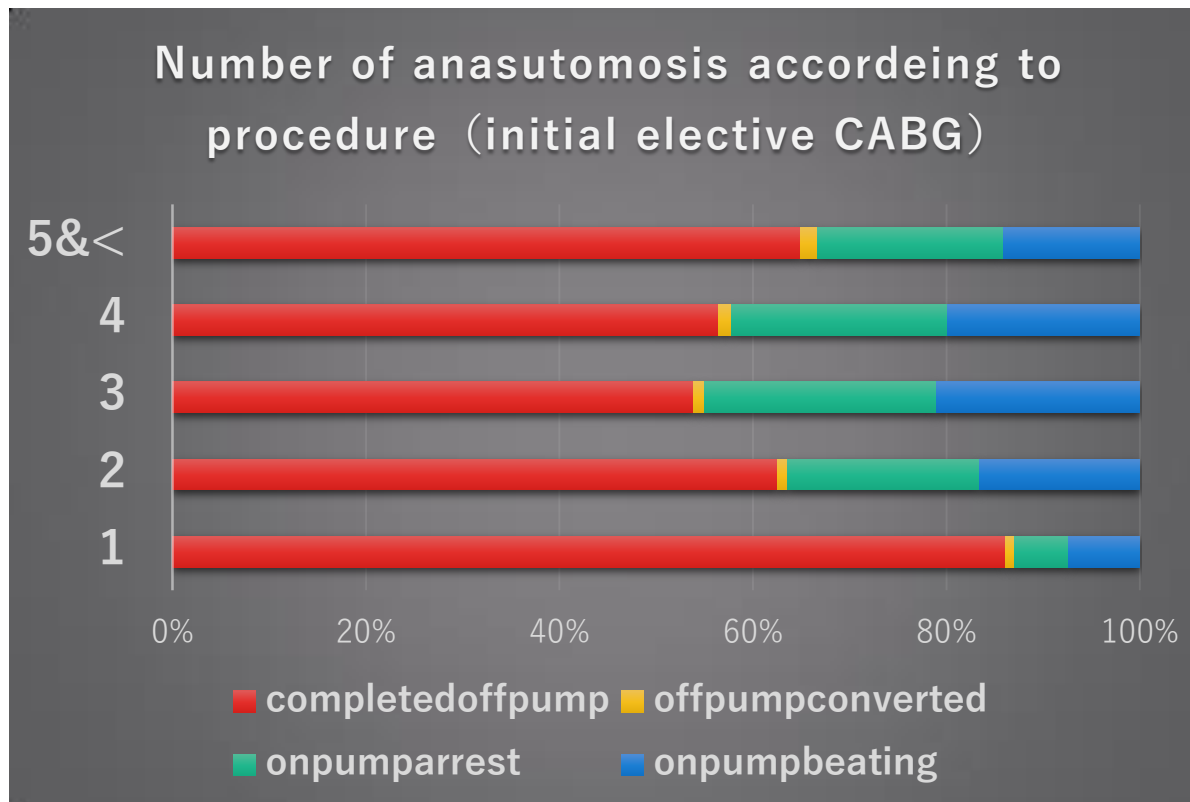
Operative Mortality by extent of CAD(%) 2022, 2023



Number of anastomosis according to procedure 2023 (initial elective CABG)

詳細不明症例を除外

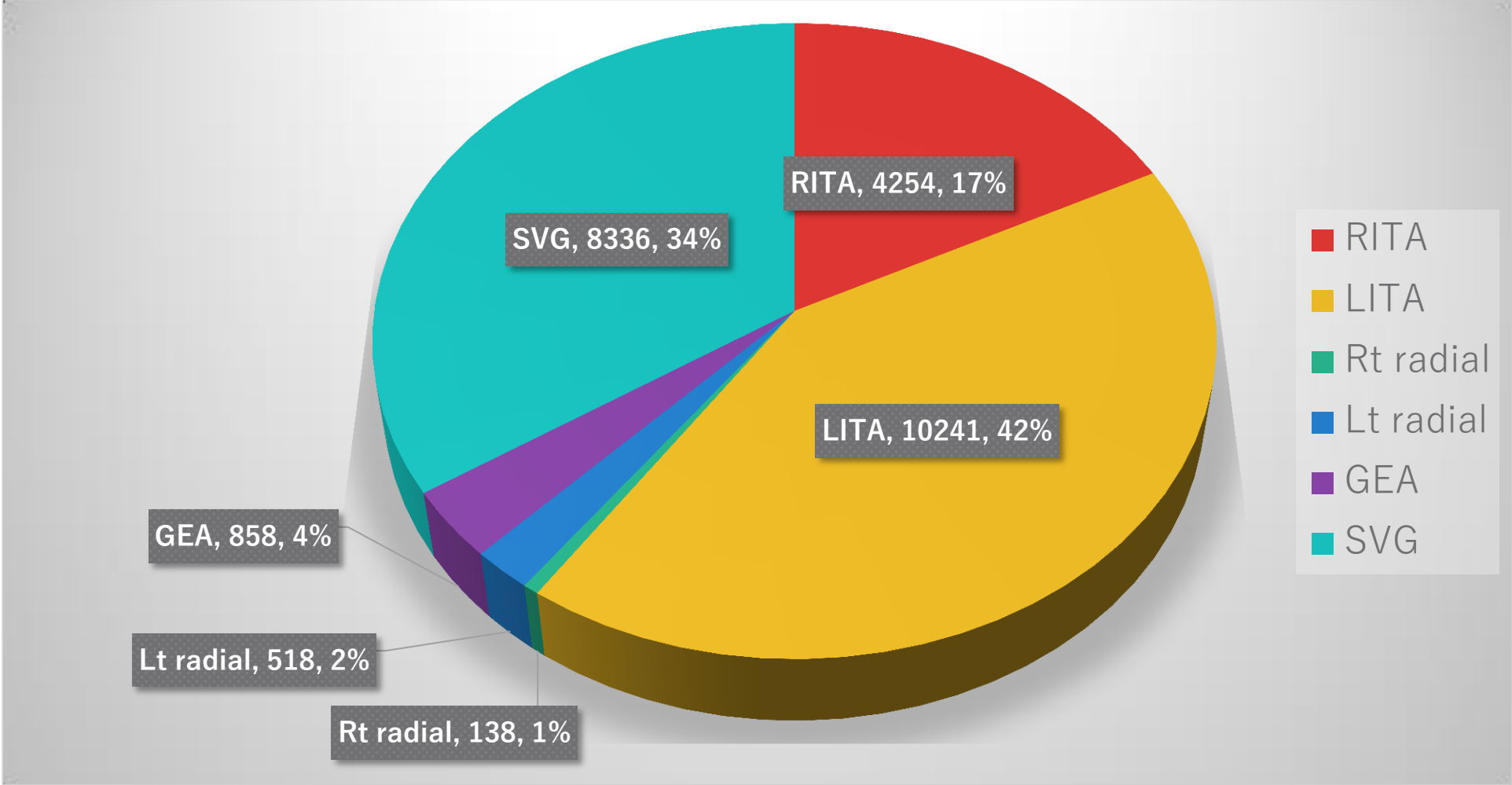
anastomosis	off-pump completed	off-pump converted	on-pump arrest	on-pump beating
1	476	5	31	41
2	948	17	301	251
3	1403	30	623	548
4	859	21	339	303
5=<	446	12	132	97



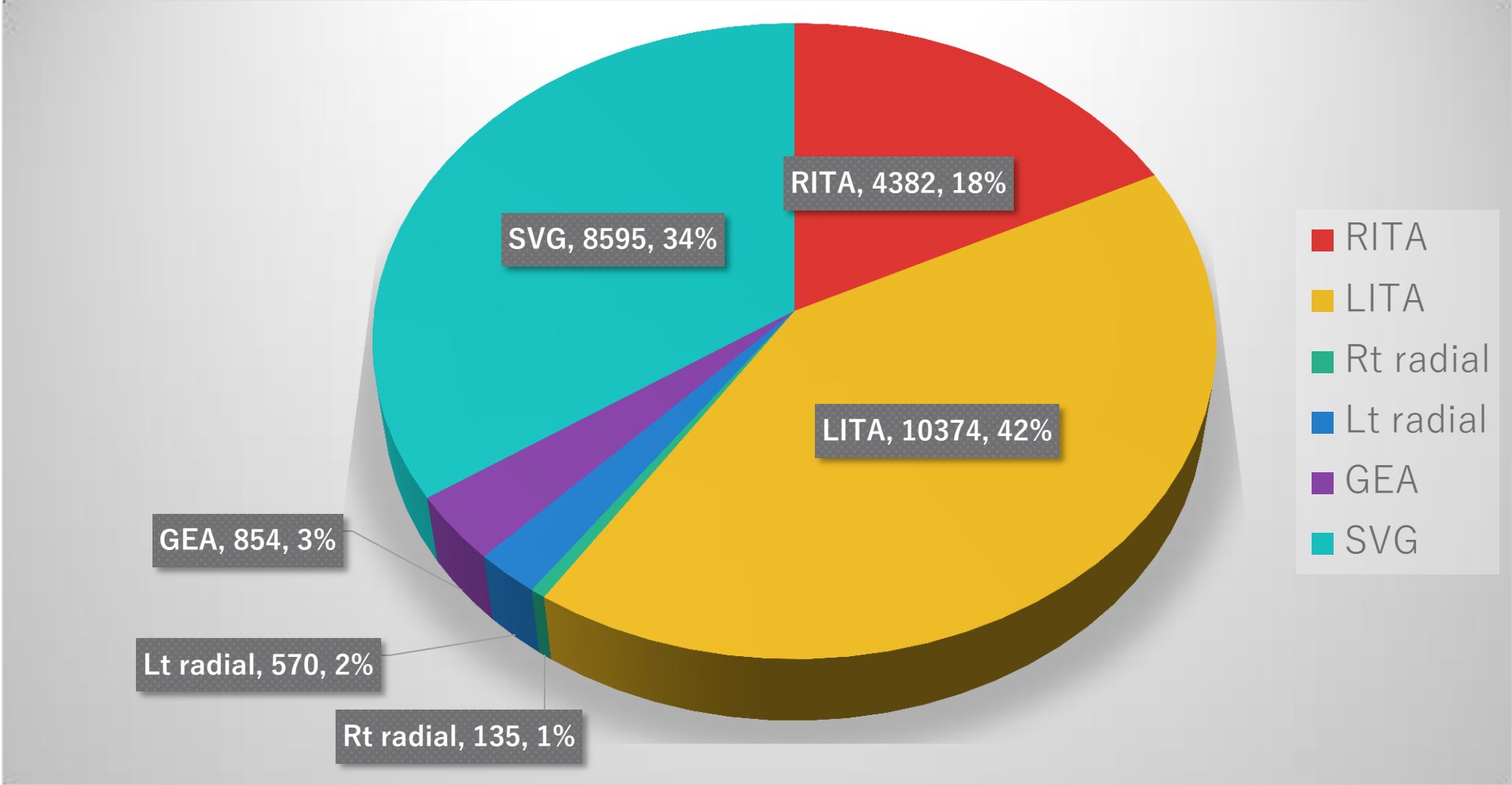
平均吻合数2023 [2022] : 3.0 [3.1]



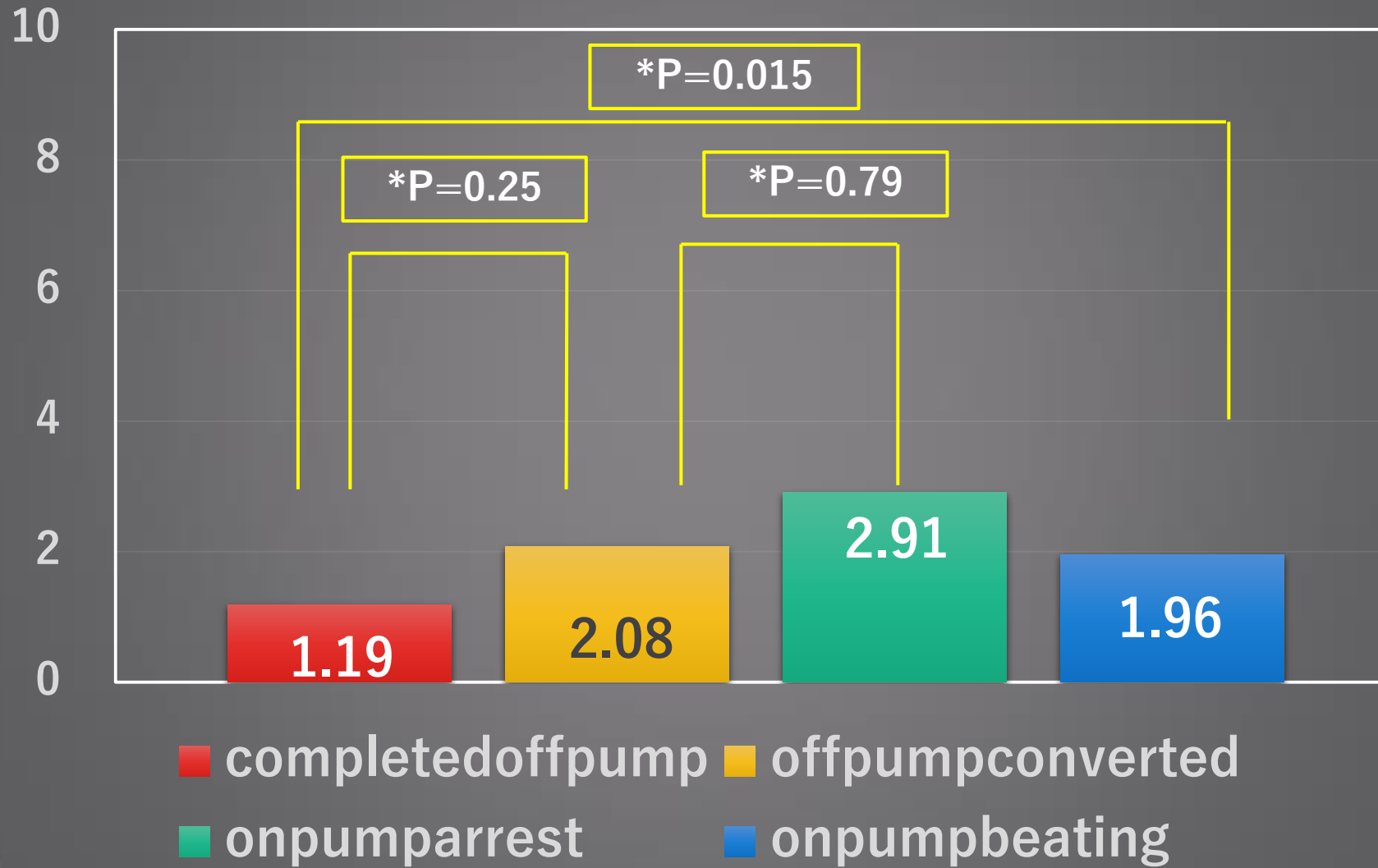
Graft use 2023



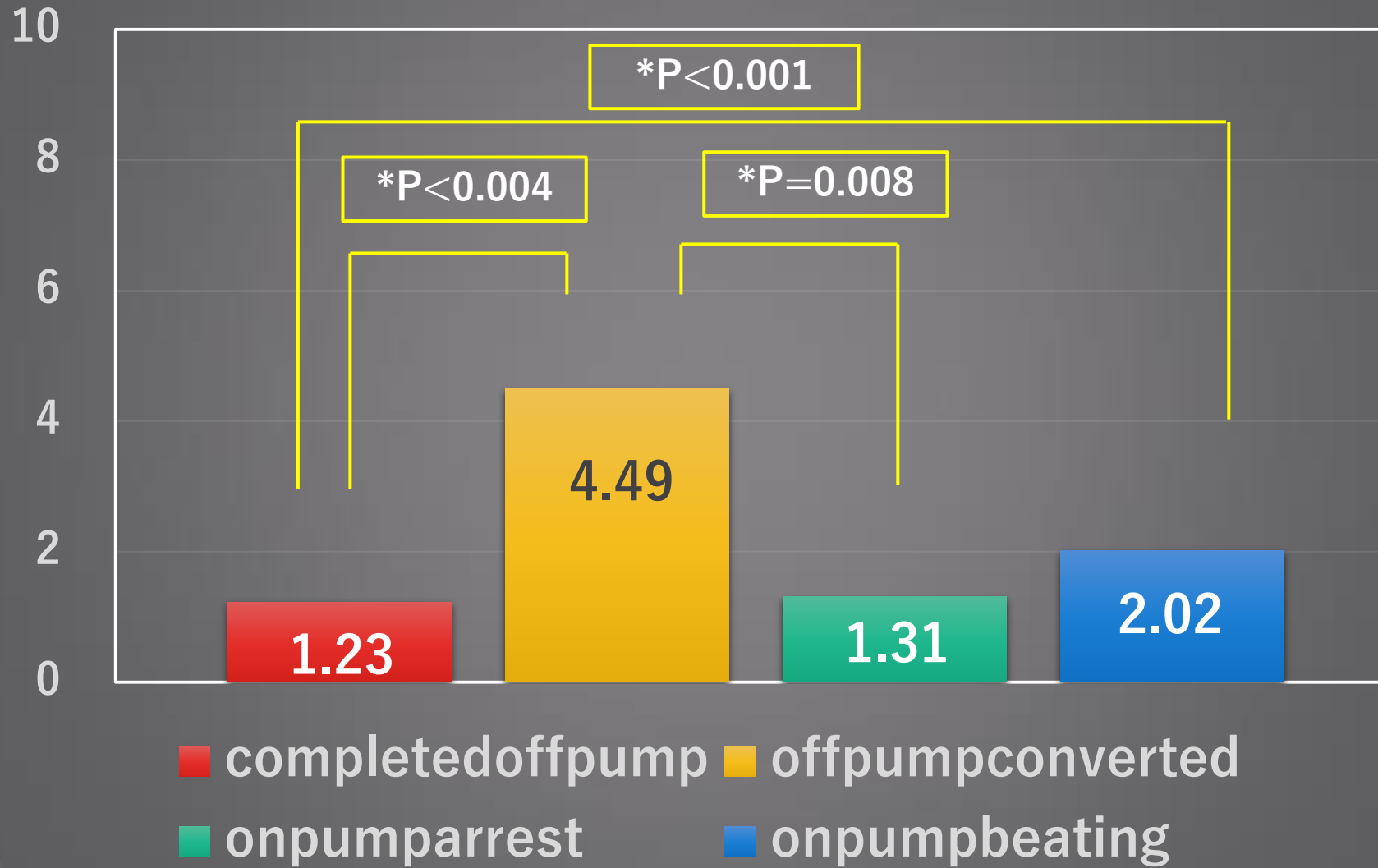
Graft use 2022



Stroke rate according to procedures 2023



Stroke rate according to procedures 2022



LV procedure due to AMI 2023

	N	30-day mortality	Operative mortality
Papillary muscle rupture	74	12 (16.2%)	17 (23.0%)
LV free wall rupture	285		
Blow-out type	101	49 (48.5%)	54 (53.5%)
Oozing type	184	48 (26.1%)	57 (31.0%)
LV aneurysm	19	1 (5.3%)	2 (10.5%)



LV procedure due to AMI 2022

	N	30-day mortality	Operative mortality
Papillary muscle rupture	71	13 (18.3%)	20 (28.2%)
LV free wall rupture	282		
Blow-out type	97	62 (63.9%)	64 (66.0%)
Oozing type	185	41 (22.2%)	52 (28.1%)
LV aneurysm	17	0 (0.0%)	0 (0.0%)



Procedures to ischemic MR 2023

		N	30-day mortality	Operative mortality
Ischemic MR		251	18 (7.2%)	34 (13.5%)
	Mitral valve plasty	173	8 (4.6%)	16 (9.2%)
	+LV procedure	8	1 (12.5%)	3 (37.5%)
	Mitral valve replacement	78	10 (12.8%)	18 (23.1%)
	+LV procedure	0	0 (--%)	0 (--%)

Procedures to ischemic MR 2022

		N	30-day mortality		Operative mortality	
Ischemic MR		253	17	6.7%	25	9.9%
	Mitral valve plasty	158	8	5.1%	11	7.0%
	+LV procedure	9	0	0%	0	0%
	Mitral valve replacement	95	9	9.5%	14	14.7%
	+LV procedure	2	0	0%	0	0%

ご清聴ありがとうございました。

Thank you for your attention!