

冠動脈外科学会学術委員会

2025年レジストリー報告 (2024年分データ)

本村昇、齋藤綾、隈丸拓、西村志織、
竹村博文
JACAS、JCVSD

第29回冠動脈外科学会学術大会 ライトキューブ宇都宮
2025/07/04

2025/07/04

第29回冠動脈外科学会学術大会 ライトキューブ宇都宮

1

JACAS Academic Committee

Annual Registry Report in 2025 (for Data of 2024)

Noboru MOTOMURA, Aya SAITO,
Hiraku KUMAMARU, Shiori NISHIMURA,
Hirofumi TAKEMURA
JACAS、JCVSD

The 29th 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**

Yearly number of CABG (by procedure- base) 2024

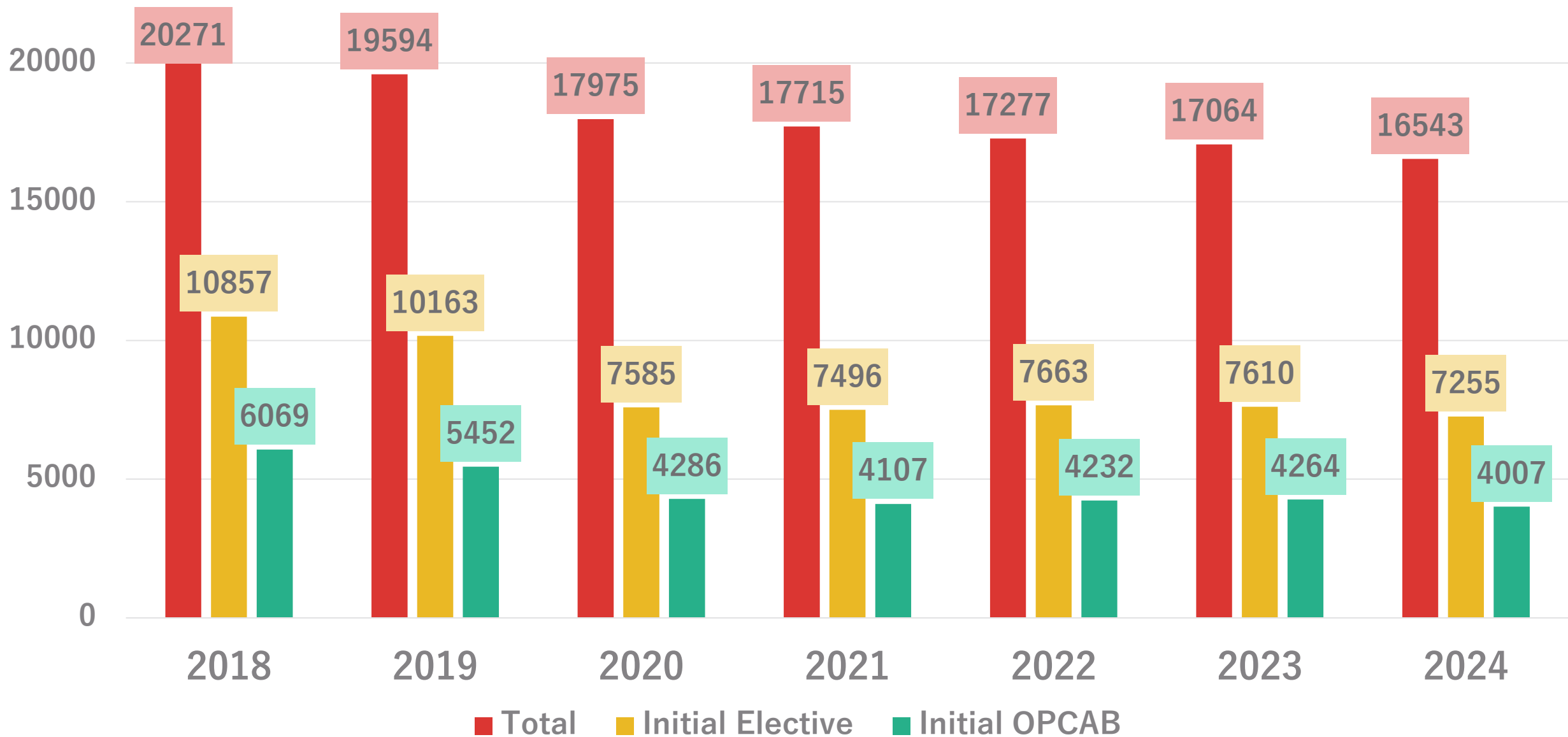
		2024			2023
Yearly total number		16,543			17,064
Isolated CABG			Initial elective	Non-elective	
		10,732 (65%)	7,255	3,477	11,041 (65%)
	OPCAB (intended)		4,007 55%	1,602 (46%)	
	ONCAB (intended)		3,248 (45%)	1,875 (54%)	
Concomitant CABG		5,811 (35%)			6,023 (35%)



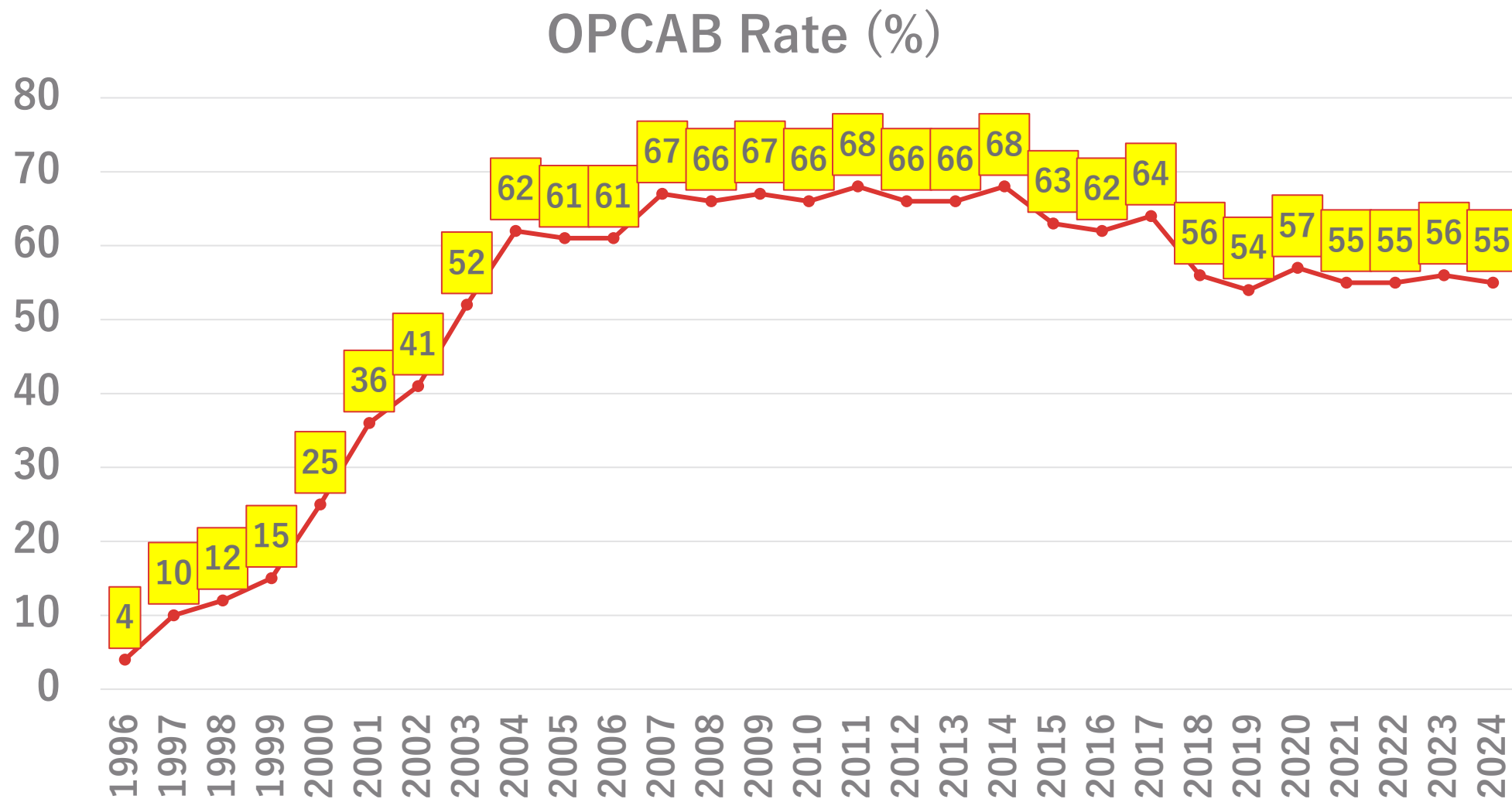
Yearly number of CABG (by procedure- base)

		2024 [前年比]			2023		
Total Number		16,543 [-3.1%]			17,064		
Isolated CABG			Initial elective	Non-elective		Initial elective	Non-elective
		10,732 [- 2.8%]	7,255 [- 4.7%]	3,477 [+ 1.3%]	11,041	7,610	3,431
	OPCAB (intended)		4,007 [- 6.0%]	1,602 [- 4.2%]		4,264	1,672
	ONCAB (intended)		3,248 [- 2.9%]	1,875 [+ 6.6%]		3,346	1,759
Concomitant CABG		5,811 [- 3.5%]			6,023		

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 2024

		N	30-day mortality		Operative mortality	
Isolated cases		10,732	222	2.1%	346	3.2%
Isolated, Initial, Elective		7,255	63	0.9%	100	1.4%
	Off-pump Intended	4,007	28	0.7%	45	1.1%
	Completed	3,919	22	0.6%	37	0.9%
	Converted	88 2.7%	6	6.8%	8	9.1%
	On-pump Intended	3,248	35	1.1%	55	1.7%
	Arrest	1,399	16	1.1%	25	1.8%
	Non-arrest, Vf	1,224	17	1.4%	25	2.0%
	No information	625	2	0.3%	5	0.8%

2025/07 Operative mortality = 30 day operative mortality ≠ Hospital mortality



Mortality- isolated CABG cases 2024 [2023]

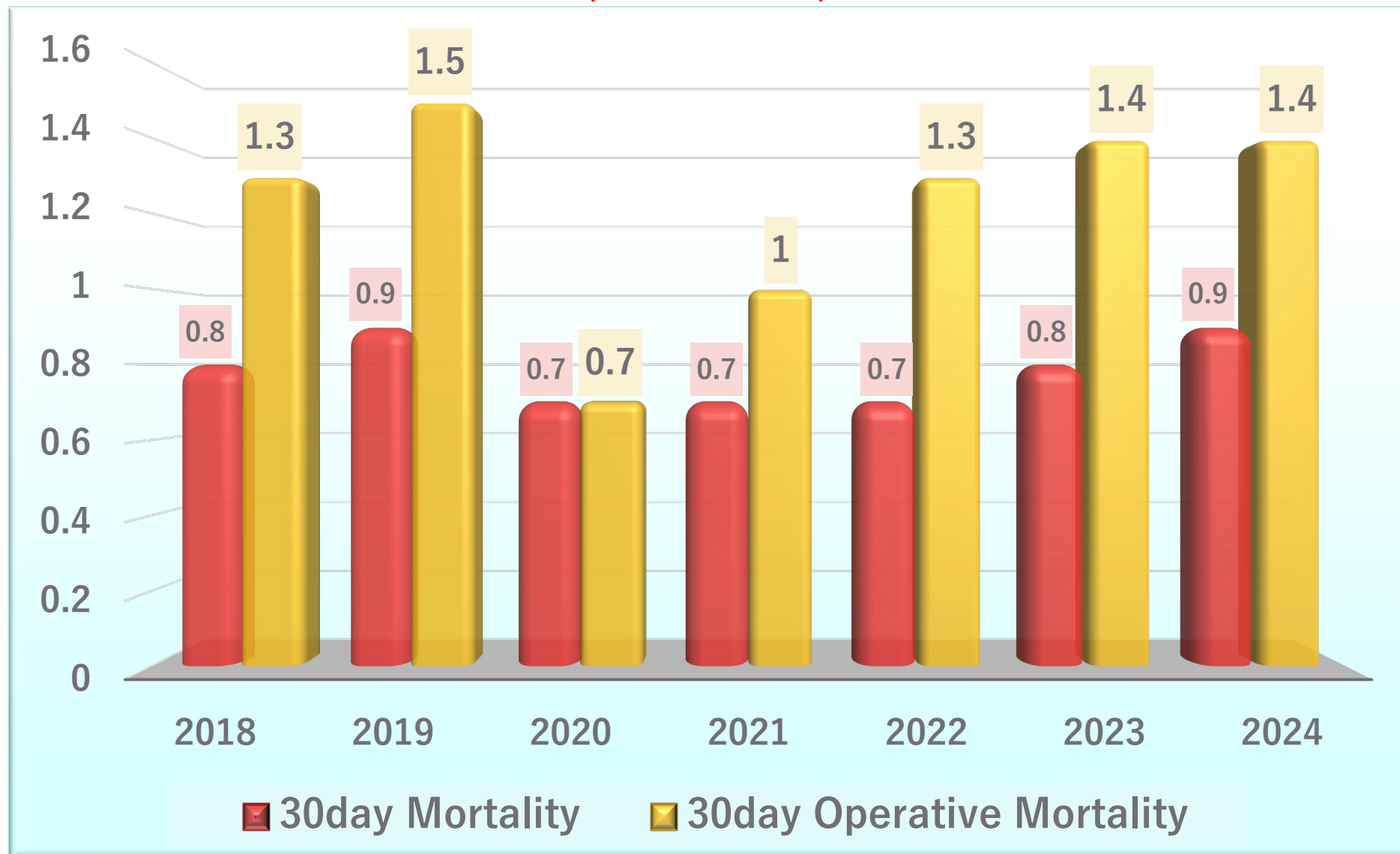
		N	30-day mortality		Operative mortality	
Isolated cases		10,732	222	2.1% [1.8]	346	3.2% [2.7]
Isolated, Initial, Elective		7,255	63	0.9% [0.8]	100	1.4% [1.4]
	Off-pump Intended	4,007	28	0.7% [0.6]	45	1.1% [1.0]
	Completed	3,919	22	0.6% [0.6]	37	0.9% [1.0]
	Converted	88 2.7%	6	6.8% [1.2]	8	9.1% [3.5]
	On-pump Intended	3,248	35	1.1% [1.1]	55	1.7% [1.9]
	Arrest	1,399	16	1.1% [1.5]	25	1.8% [2.2]
	Non-arrest, Vf	1,224	17	1.4% [1.2]	25	2.0% [1.9]
	No information	625	2	0.3% [0.3]	5	0.8% [0.9]

2025/07 Operative mortality = 30 day operative mortality ≠ Hospital mortality



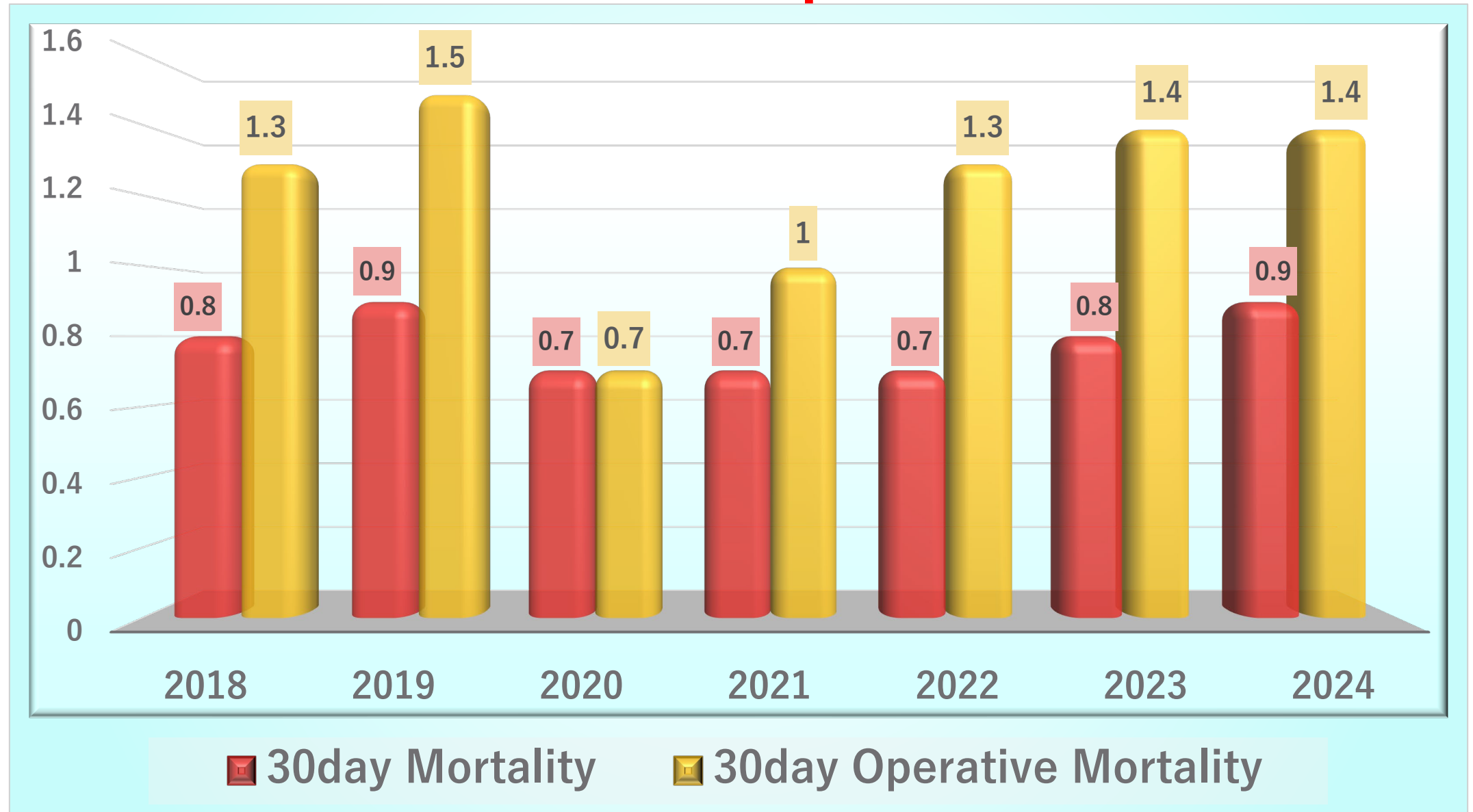
Yearly Trend of Mortality (30-day, 30-day Operative Mortality)

Isolated, Initial, Elective

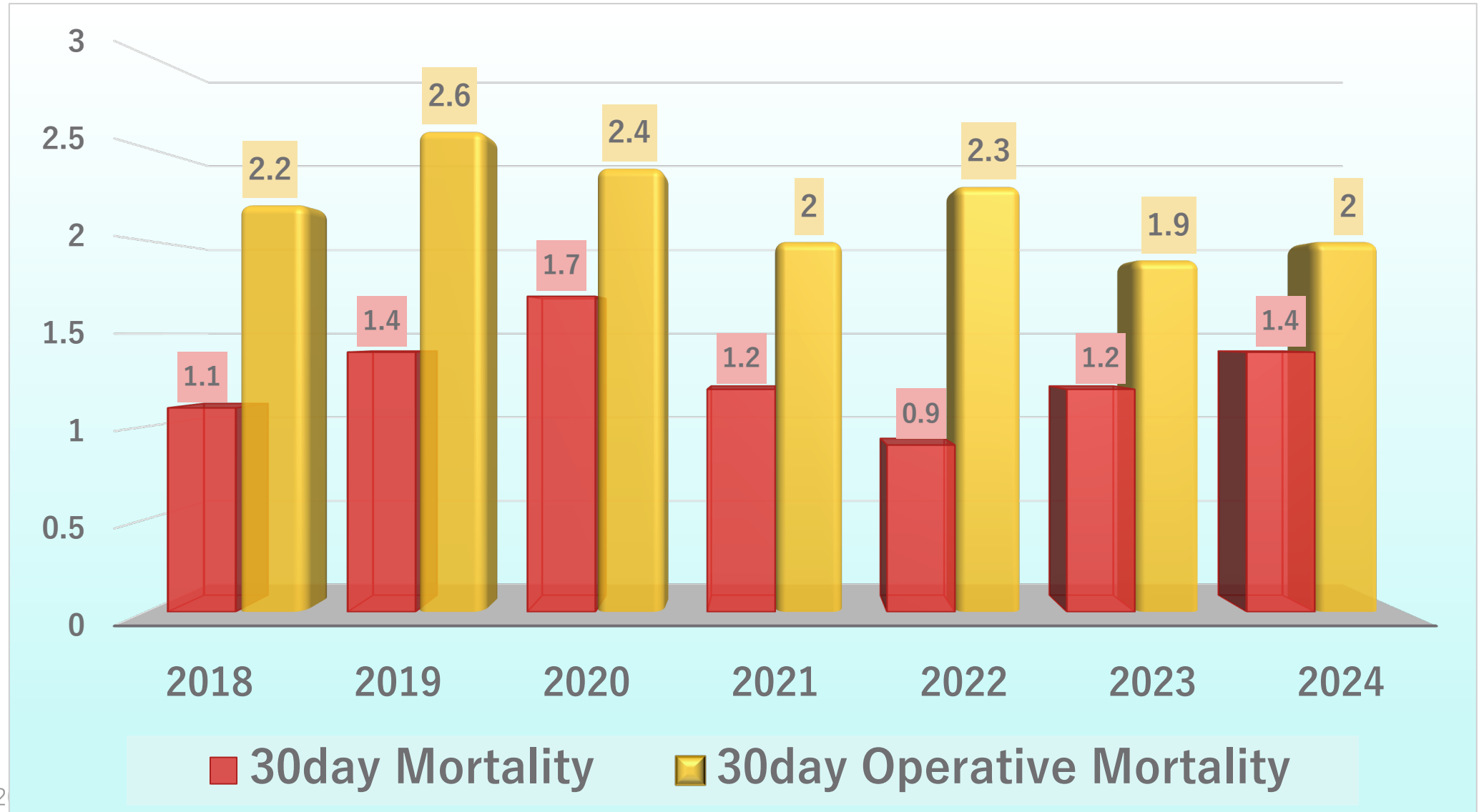


Yearly Trend of Mortality (30-day, 30-day Operative Mortality)

OPCAB Completed



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

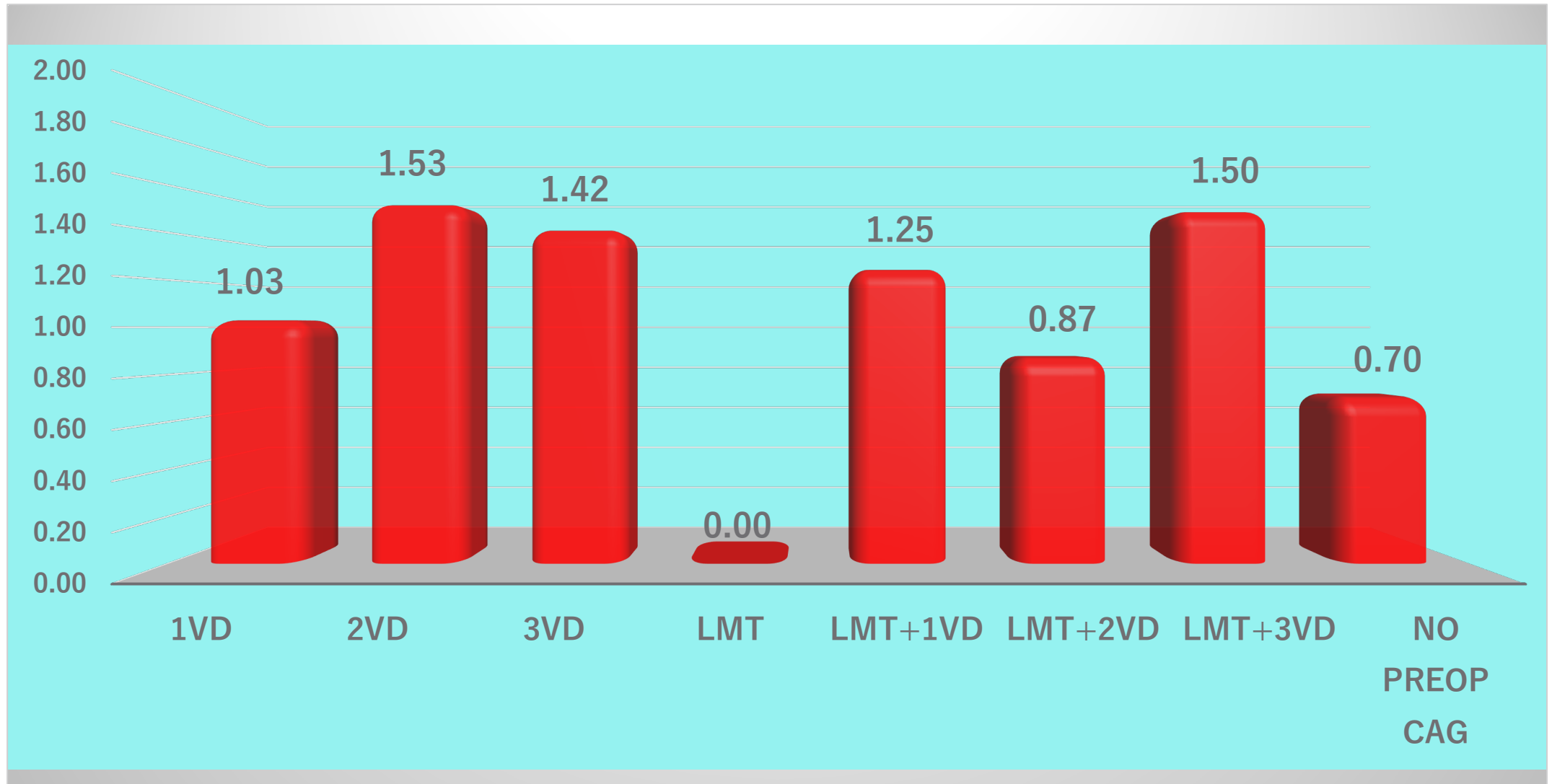


Gender & Age distribution 2024

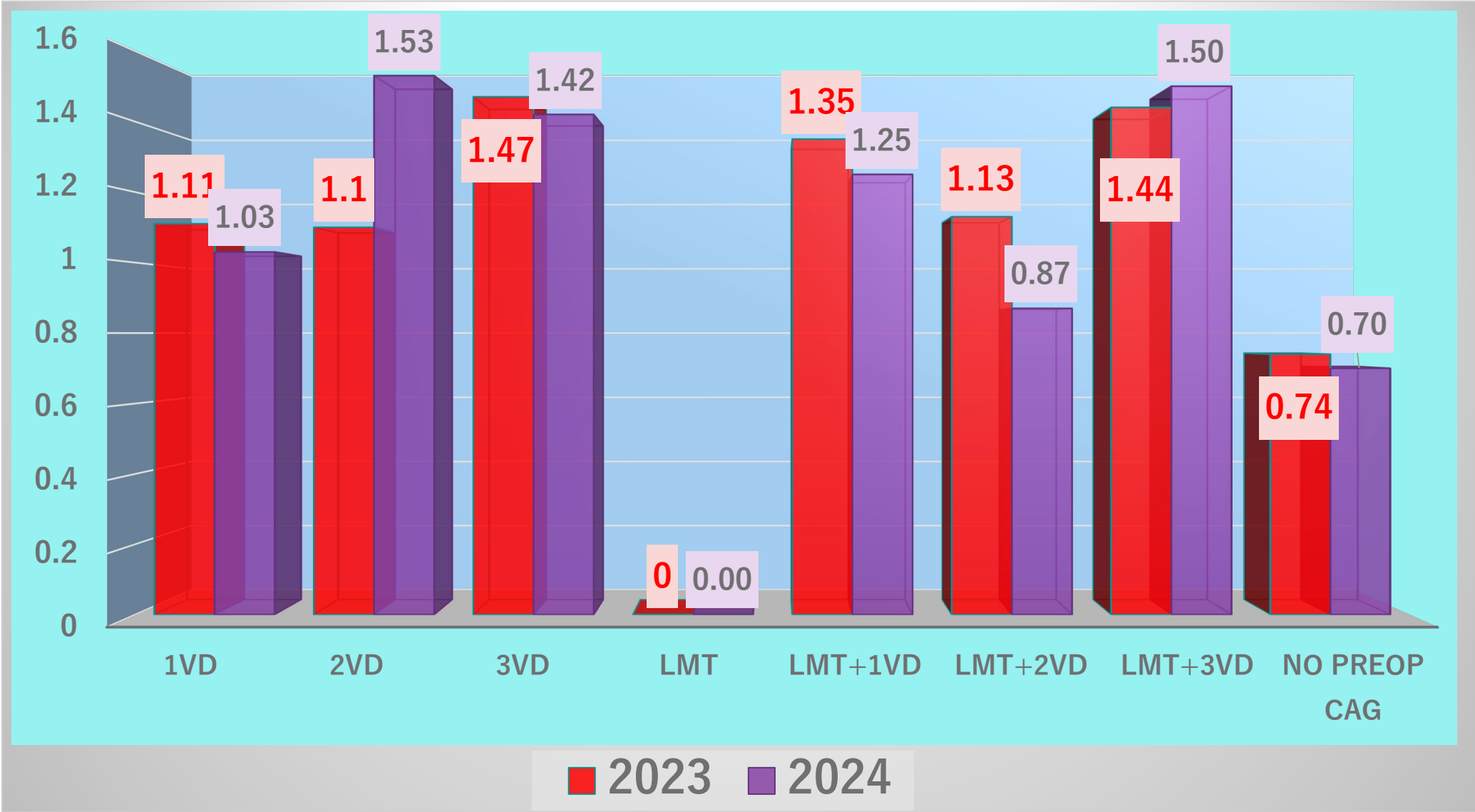
	Female	Male	Total	(2023)
< 50	51	369	420 ↓	541
50 – 59	164	1296	1460 ↑	1416
60 – 69	387	2318	2705 ↓	2768
70 – 79	970	3574	4544 ↓	4651
80 =<	443	1160	1603 ↓	1665
Total	2015	8717	10732 ↓	11041

Operative Mortality by extent of CAD(%) 2024

(%)



Operative Mortality by extent of CAD(%) 2023, 2024

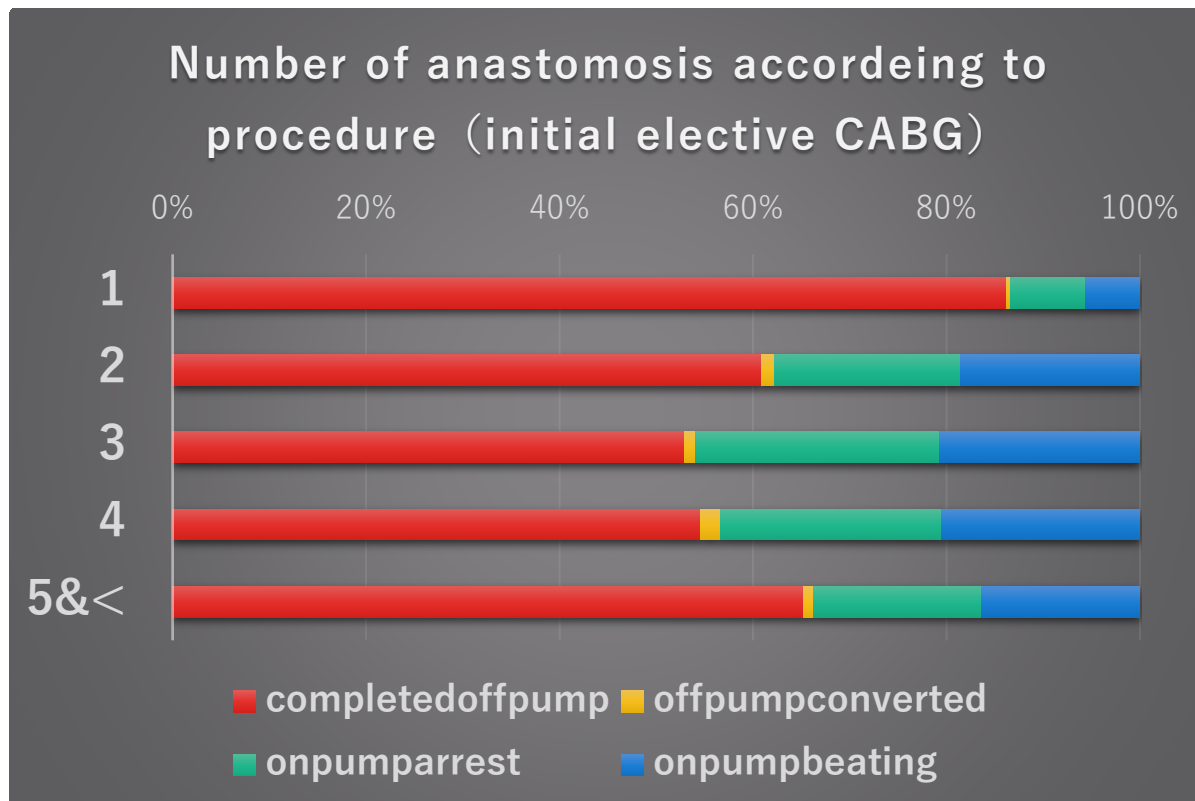


Number of anastomosis according to procedure 2024 (initial elective CABG)

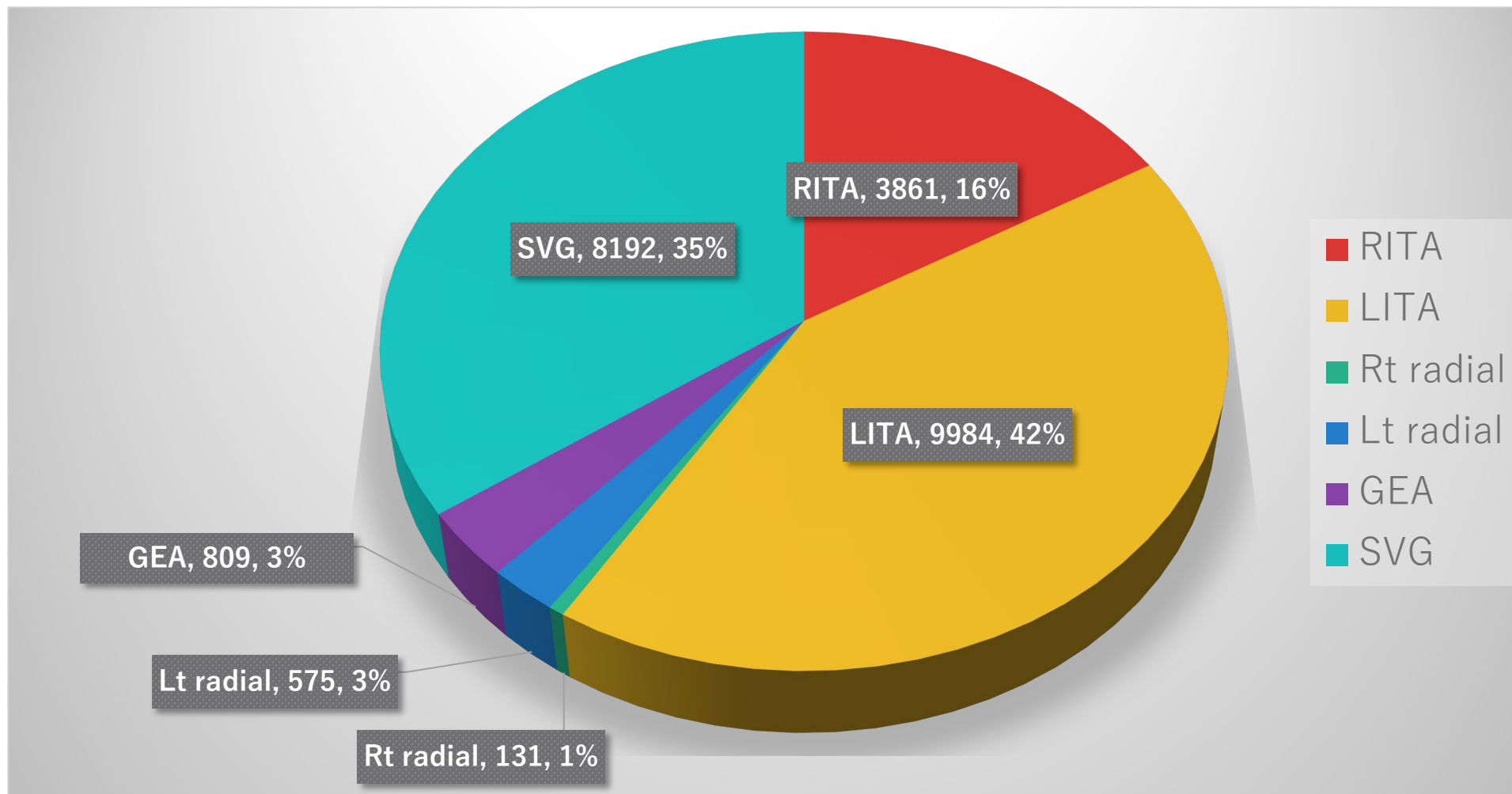
詳細不明症例を除外

anastomosis	off-pump completed	off-pump converted	on-pump arrest	on-pump beating
1	517	3	46	34
2	913	21	288	278
3	1310	28	625	514
4	811	30	340	304
5=<	367	6	98	92

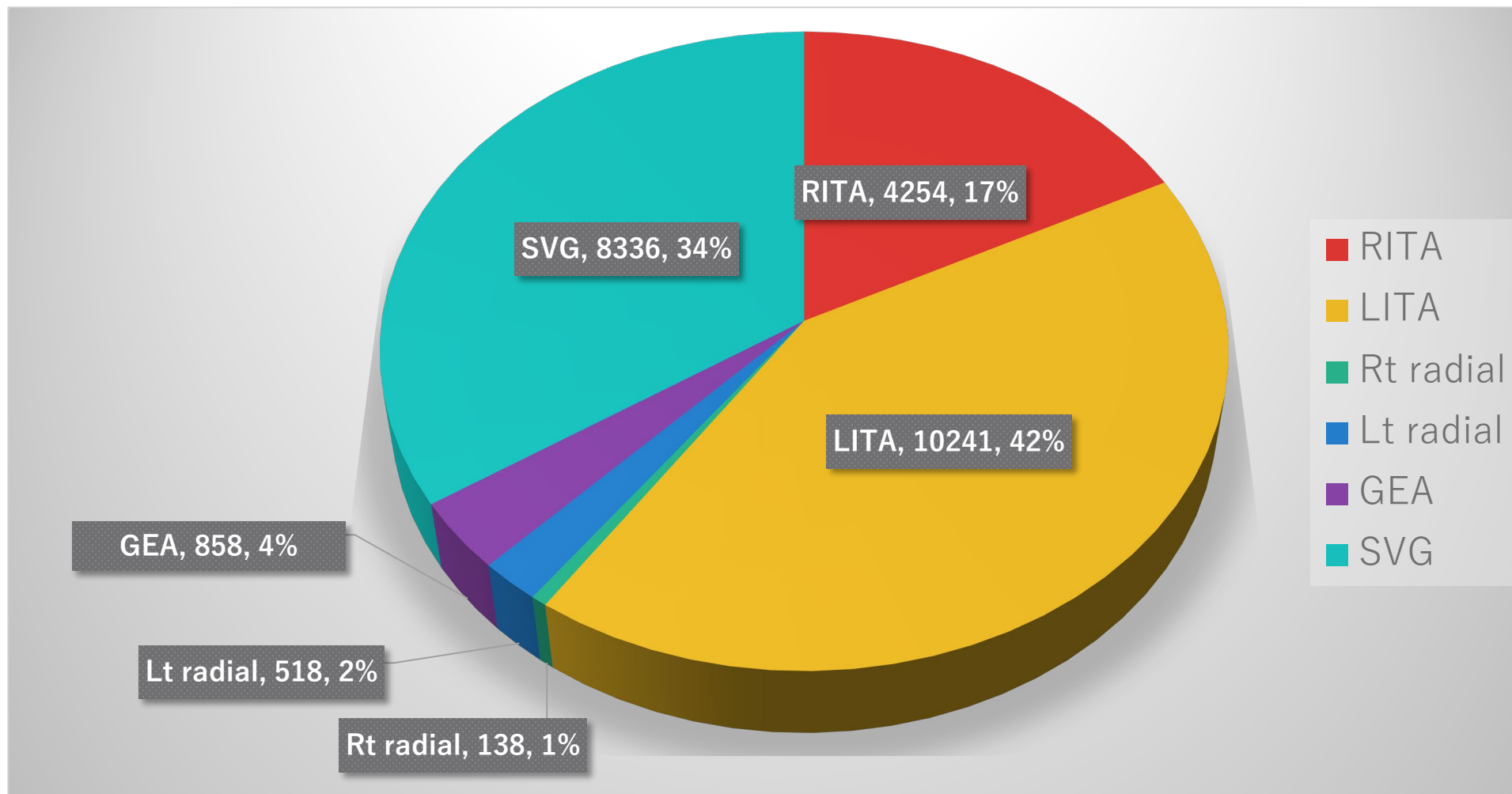
平均吻合数**2024** [2023] : **3.0** [3.0]



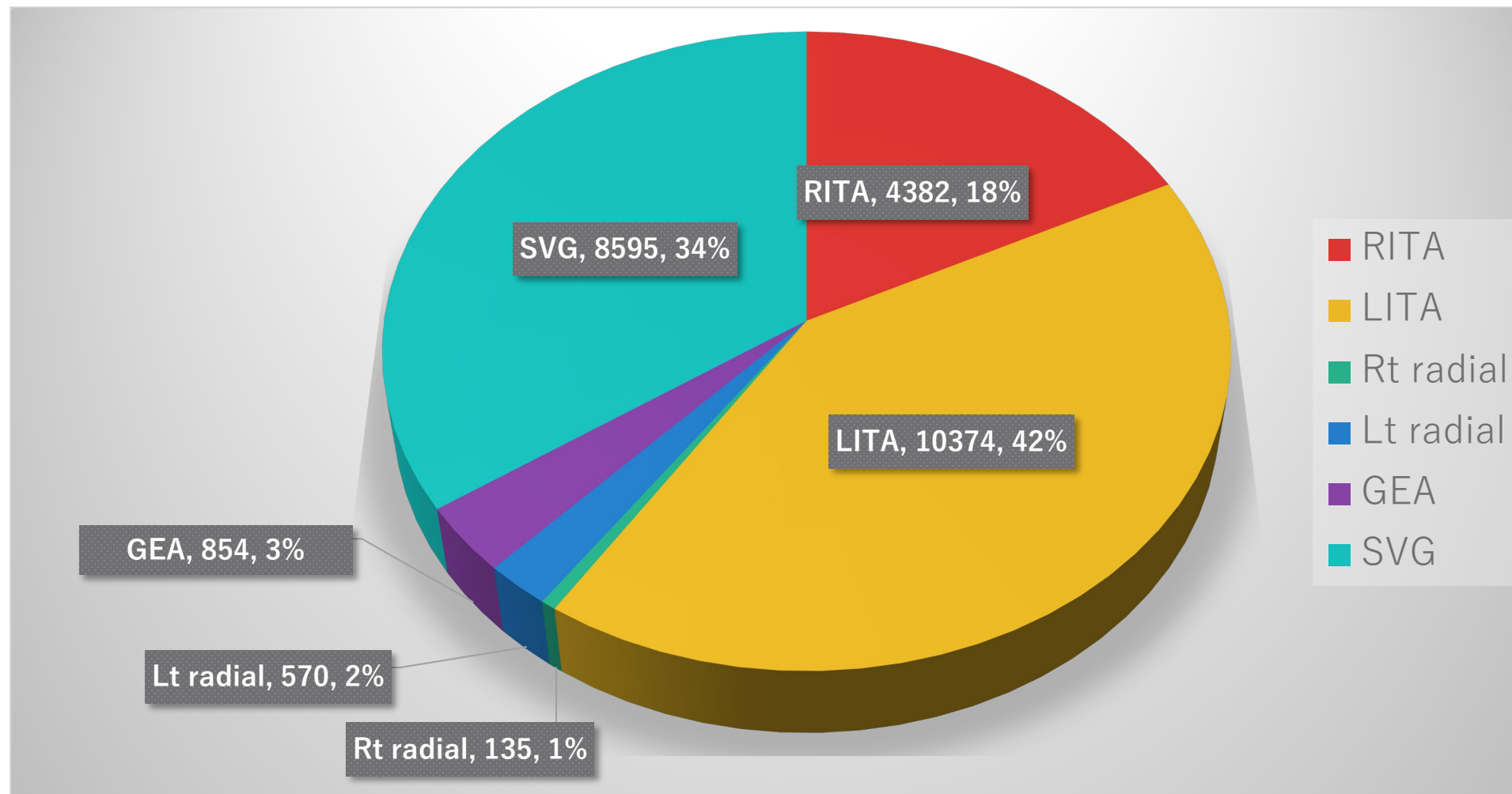
Graft use 2024



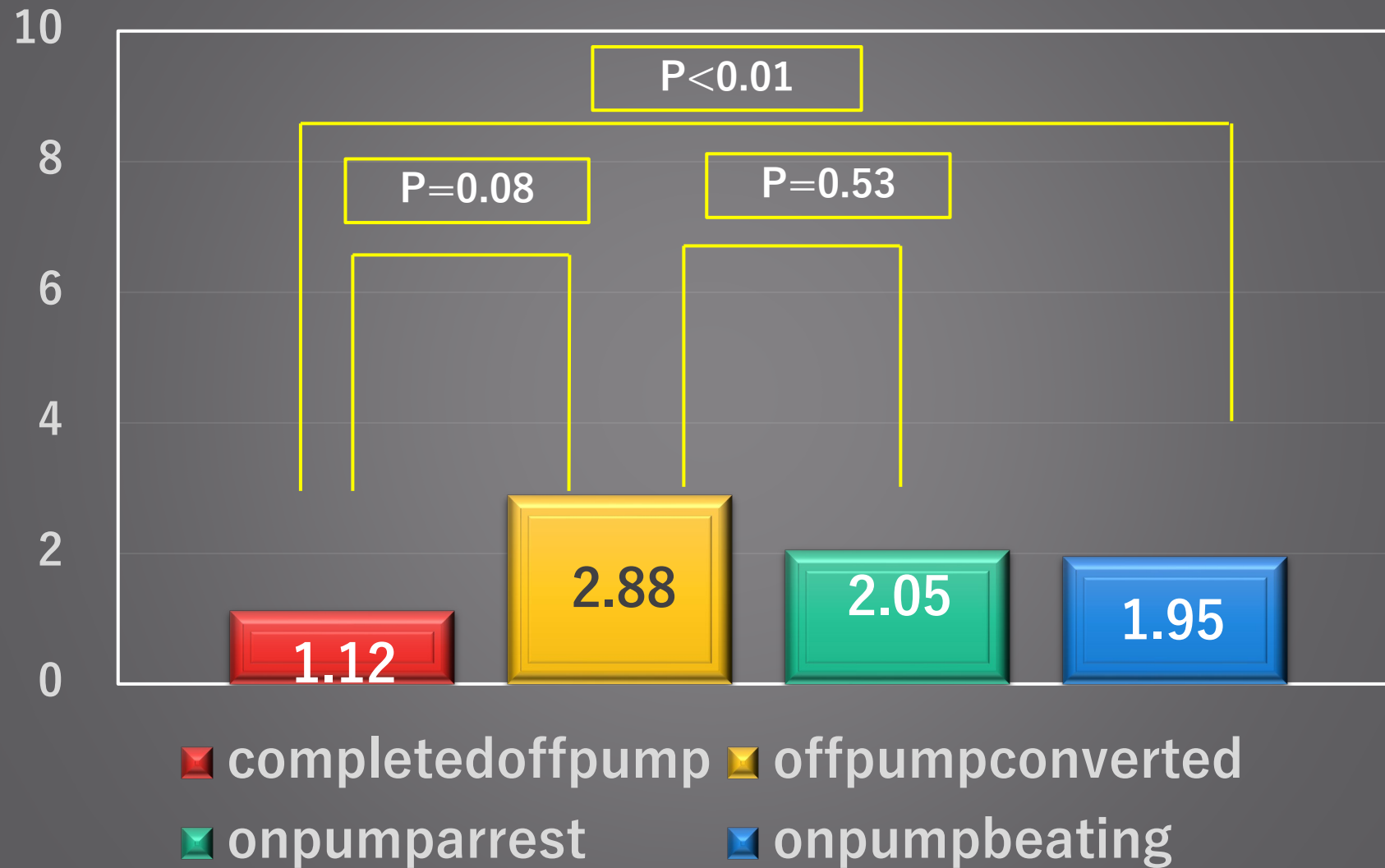
Graft use 2023



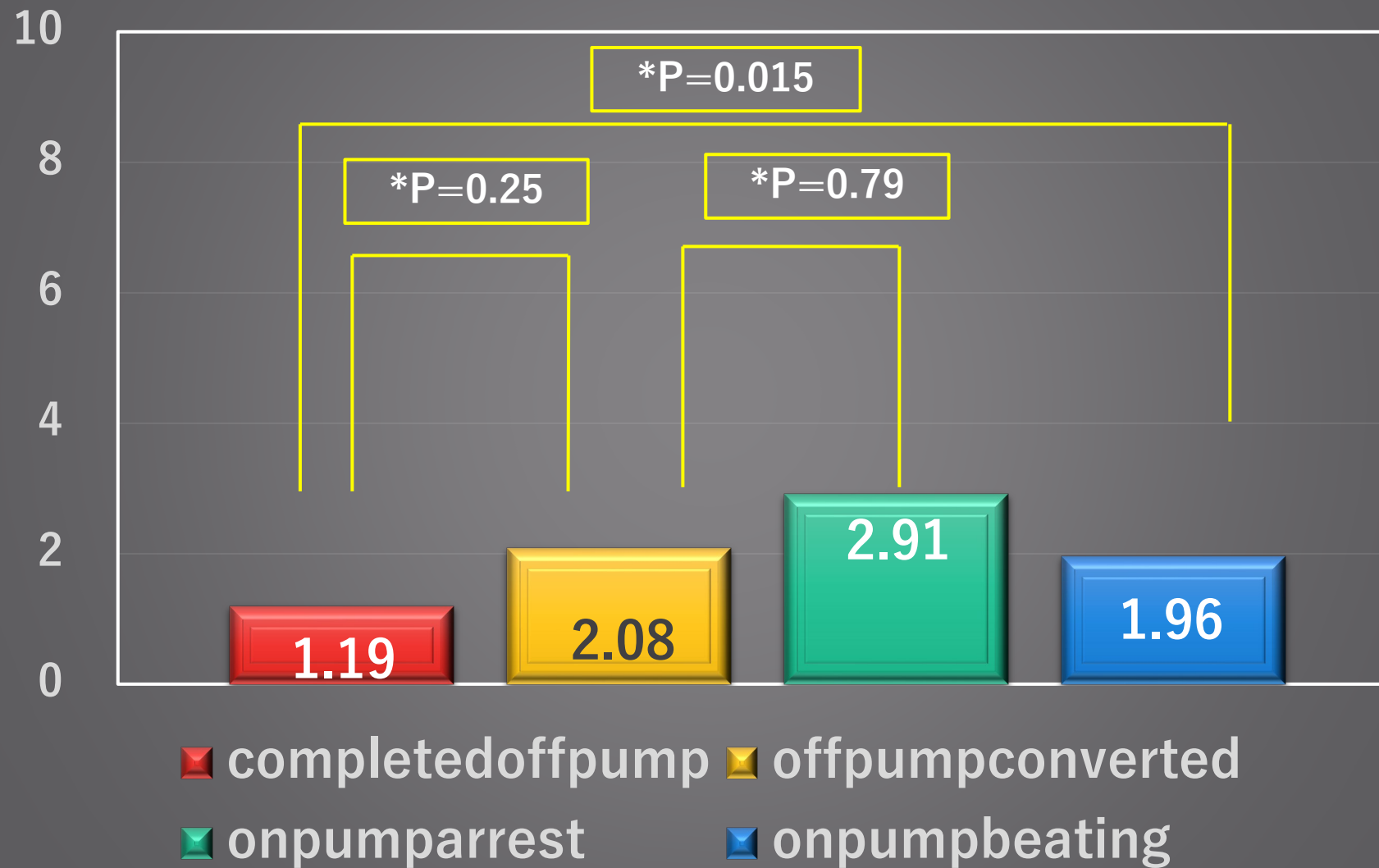
Graft use 2022



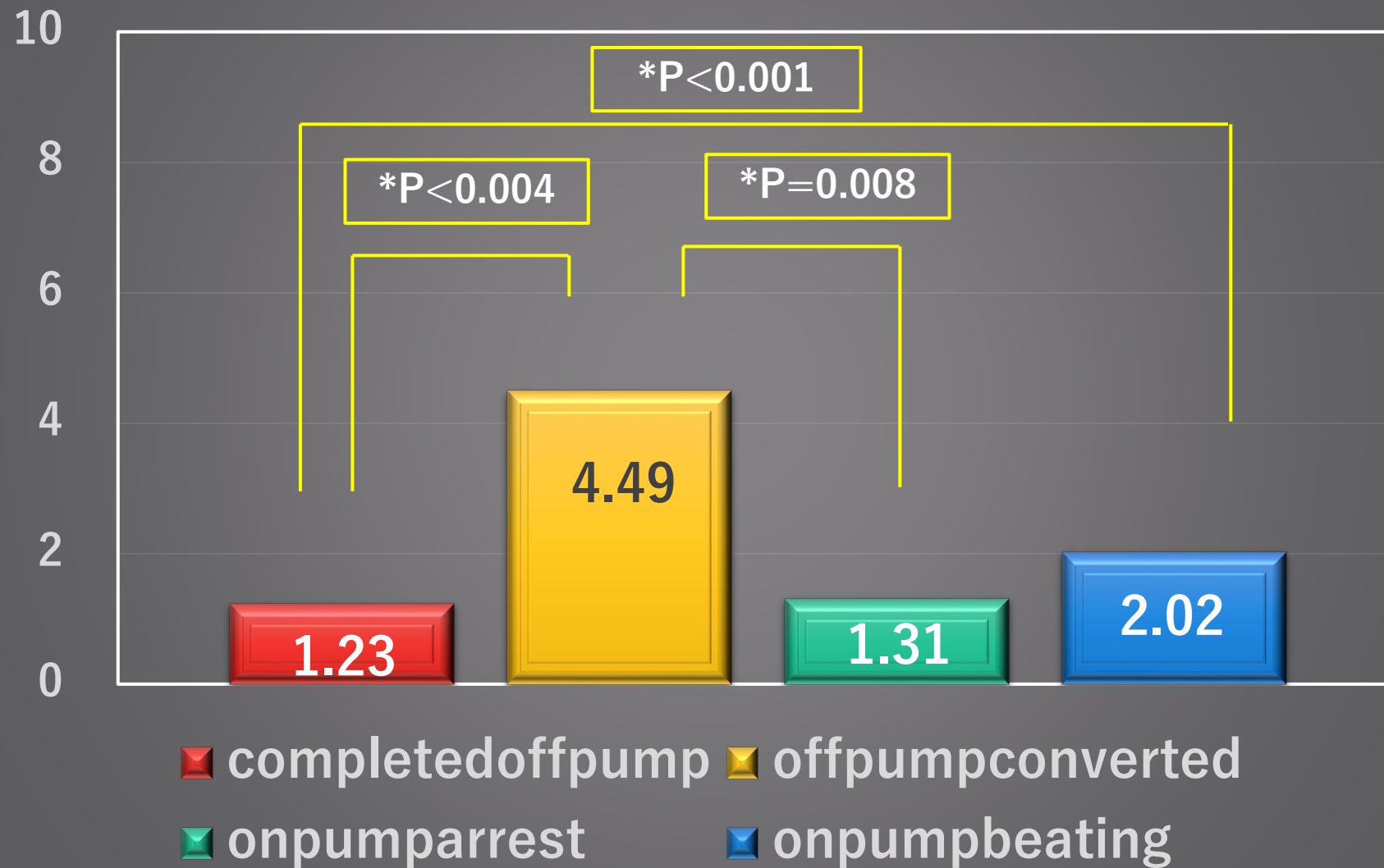
Stroke rate according to procedures 2024



Stroke rate according to procedures 2023



Stroke rate according to procedures 2022



LV procedure due to AMI 2024

	N	30-day mortality	Operative mortality
Papillary muscle rupture	89	17 (19.1%)	24 (27.0%)
LV free wall rupture	270		
Blow-out type	92	38 (41.3%)	47 (51.1%)
Oozing type	175	34 (19.4%)	42 (24.0%)
LV aneurysm	17	0 (0%)	0 (0%)

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 2024

		N	30-day mortality	Operative mortality
Ischemic MR		317	21 (6.6%)	30 (9.5%)
	Mitral valve plasty	201	13 (6.5%)	16 (8.0%)
	+LV procedure	17	1 (5.9%)	1 (5.9%)
	Mitral valve replacement	116	8 (6.9%)	14 (12.1%)
	+LV procedure	8	1 (12.5%)	1 (12.5%)

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!