Cath Lab and Interventional Survey (CLICS) 2024 - Assuta-Ramat-Ha
Hayal report

Table 1: Patients charcteristics

	Overall	Assuta-Ramat-Ha Hayal, n (%)
n Age (mean (SD)) Age group (%)	4565 66.24 (12.17)	271 66.21 (10.22)
$50 \le Age < 70$ $Age < 50$	2247 (49.7) 402 (8.9)	,
Age >= 70 Gender = Male (%) Diabetes = Yes (%) COPD = Yes (%) Chronic renal failure = Yes (%)	1876 (41.5) 3275 (72.1) 1782 (43.4) 297 (7.2) 475 (11.6)	201 (74.2) 105 (39.2) 17 (6.3)
Chronic dialysis = Unknown (%) Prior stroke or TIA = Yes (%) Prior PCI = Yes (%) Prior CABG or valve surgery = Yes (%) Heart failure (%)	475 (100.0) 269 (6.5) 1621 (39.5) 362 (8.8)	11 (4.1) 112 (41.8)
Yes No Unknown % LV ejection fraction (mean (SD)) Atrial fibrillation = Yes (%)	630 (15.3) 2867 (69.8) 608 (14.8) 51.48 (11.86) 406 (9.9)	182 (67.9) 77 (28.7)

Table 2: Procedure type distribution

	Overall n (%)	Assuta-Ramat-HaHayal,n (%)
N	4565	271
Coronary	4109 (90.0)	268 (98.9)
Structural - Valvular	170 (3.7)	0 (0.0)
Structural - non valvular	49 (1.1)	1 (0.4)
Peripheral	30 (0.7)	2 (0.7)
Other	271 (5.9)	0 (0.0)

Table 3: Procedure type distribution among coronary procedure patients

Patient admission type	Overall	Assuta-Ramat-HaHayal
Elective (from home) Hospitalized (including urgent admission from emergency department - primary PCI, unstable NSTEMI etc.)	39% (1,608) 61% (2.501)	100% (268) 0% (0)
Total	100% (4,109)	()

Table 4: Time of procedure distribution

	Overall	Assuta-Ramat-HaHayal
Regular working hours	84.11% (3,456)	99.63% (267)
Off-working hours / weekend	$15.87\% \ (652)$	0.37% (1)
Missing	0.02%~(1)	0.00% (0)
Total	$100.00\% \ (4,109)$	100.00%~(268)

Table 5: Indication for coronary procedure distribution

Indication for procedure	Overall	Assuta-Ramat-HaHayal
Diagnostic cath before cardiac surgery	2% (73)	1% (2)
Diagnostic cath before structural percutaneous intervention (e.g. TAVI)	3% (105)	0% (1)
Heart failure symptoms	4% (182)	0% (0)
LBBB of unknown age	0% (4)	0% (1)
Non STEMI	20% (830)	1% (3)
Other	5% (201)	3% (8)
Out of hospital sudden death	0% (14)	0% (0)
Planned PCI (Staged PCI, after Heart-team discussion etc.)	6% (231)	3% (7)
Pre / Post organ transplant	1% (34)	0% (0)
Stable angina	23% (939)	88% (236)
STEMI	10% (426)	0% (0)
STEMI - Late arrival (>12 hrs)	1% (46)	0% (0)
Unstable angina (troponin negative ACS)	$25\% \ (1,022)$	4% (10)
NA	0% (2)	0% (0)
Total	$100\% \ (4,109)$	100%~(268)

Table 6: Arterial access distribution among coronary procedure patient

Arterial access	Overall	Assuta-Ramat-HaHayal
Right radial artery Left radial artery Femoral artery Brachial artery Other	78% (3,219) 9% (377) 12% (477) 0% (10) 1% (21)	81% (217) 10% (26) 9% (25) 0% (0) 0% (0)
NA Total	0% (5) 100% (4,109)	0% (0) $100% (268)$

Table 7: Type of coronary procedure

Type of coronary procedure	Overall	Assuta-Ramat-HaHayal
Diagnostic angiography only (no PCI done)	47.41% (1,948)	47.39% (127)
Percutaneous coronary intervention (PCI)	$52.54\% \ (2,159)$	52.61%~(141)
Coronary fistulae closure	0.02% (1)	0.00% (0)
NA	0.02% (1)	0.00% (0)
Total	$100.00\% \ (4,109)$	100.00%~(268)

Table 8: Clinical reccomendation among stable angina patient

clinical reccomendation	Overall	Assuta-Ramat-HaHayal
Cardiac surgery	6% (54)	8% (19)
Conservative/medical treatment	47% (441)	42% (100)
Heart team discussion	1% (7)	0% (0)
Immediate PCI	40% (372)	42% (99)
Immediate PCI with staged PCI procedure (Partial revascularization with planned additional PCI)	4% (42)	5% (12)
Other structural heart intervention	1% (6)	0% (1)
Planned PCI at future time	1% (12)	2% (4)
TAVI	1% (5)	0% (1)
Total	100%~(939)	100%~(236)

Table 9: Clinical recomendation among *urgent patient

clinical reccomendation	Overall	Assuta-Ramat-HaHayal
Cardiac surgery	6% (138)	7% (1)
Conservative/medical treatment	34% (787)	50% (7)
Heart team discussion	2% (43)	0% (0)
Immediate PCI	51% (1,186)	43% (6)
Immediate PCI with staged PCI procedure (Partial revascularization with planned additional PCI)	5% (119)	0% (0)
Other structural heart intervention	1% (27)	0% (0)
Planned PCI at future time	2% (36)	0% (0)
TAVI	0% (6)	0% (0)
Total	$100\% \ (2,342)$	$100\% \ (14)$

Note:

*patients with one of the following indication: Unstable angina (troponin negative ACS)/ Non STEMI/ STEMI/ STEMI - Late arrival (>12 hrs)/ LBBB of unknown age/ Out of hospital sudden death

Table 10: Ischemia evaluation among patients with stable angina who underwent PCI

	Overall	Assuta-Ramat-HaHayal
N	438	123
Non invasive test ischemia = Yes ($\%$)	307 (70.1)	103 (83.7)
Functional (e.g. Ergometry, stress echo, SPECT) = Yes $(\%)$	289(66.0)	98 (79.7)
Anatomical - Coronary CT angiography	33 (7.5)	11 (8.9)
FFR / IFR used = Yes (%)	15 (3.4)	1 (0.8)
IVUS used = Yes $(\%)$	5 (1.1)	0 (0.0)
OCT used = Yes (%)	3(0.7)	3 (2.4)

Table 11: Patients with stable angina who underwent PCI charcteristics

	Overall, n (%)	Assuta-Ramat-HaHayal, n (%)
N	438	123
Multivessel pci = Yes	63 (14.4)	24 (19.5)
Number of lesions treated	, ,	•
0	8 (1.8)	0 (0.0)
1	290 (66.2)	83 (67.5)
2	110 (25.1)	35 (28.5)
3	18 (4.1)	3(2.4)
4	12 (2.7)	2(1.6)
Native coronary $=$ Yes	433 (98.9)	122 (99.2)
SVG = Yes	3 (0.7)	1 (0.8)
LIMA/RIMA = Yes	3 (0.7)	0 (0.0)
Other arterial conduit $=$ Yes	0 (0.0)	0 (0.0)

Table 12: Device types used among patients with stable angina who underwent PCI

	Overall, n (%)	Assuta-Ramat-Ha Hayal, n (%)
N	1839	129
Drug eluting stent	1683 (91.5)	118 (91.5)
Bare metal stent	5(0.3)	0 (0.0)
Biodergadable scaffold	0 (0.0)	0 (0.0)
Covered stent (stent graft)	2 (0.1)	0 (0.0)
Drug coated balloon	99 (5.4)	4 (3.1)
Cutting balloon	11 (0.6)	2 (1.6)
Scoring balloon	10 (0.5)	0 (0.0)
POBA	184 (10.0)	8 (6.2)
None	30 (1.6)	2 (1.6)

Note:

^{*}it is possible to have more then one stend per patient

Table 13: Procedural complications

	All coronary procedurers		Diagnostic procedures		PCI procedures	
	Overall	Assuta-Ramat-HaHayal	Overall	Assuta-Ramat-HaHayal	Overall	Assuta-Ramat-HaHayal
n	4107	268	1948	127	2159	141
Coronary artery dissection (%)	32(0.8)	2(0.7)	0(0.0)	0 (0.0)	32(1.5)	2(1.4)
Coronary artery perforation (%)	6 (0.1)	0 (0.0)	0 (0.0)	0 (0.0)	6 (0.3)	0 (0.0)
No reflow / distal embolization (%)	21(0.5)	3 (1.1)	1 (0.1)	1 (0.8)	20 (0.9)	2(1.4)
Significant (>1.5 mm) side branch occlusion (%)	8 (0.2)	1 (0.4)	0 (0.0)	0 (0.0)	8 (0.4)	1 (0.7)
Tamponade (%)	3 (0.1)	0 (0.0)	1 (0.1)	0 (0.0)	2(0.1)	0 (0.0)
Ventricular arrhythmia (%)	7 (0.2)	1 (0.4)	1 (0.1)	0 (0.0)	6 (0.3)	1 (0.7)
Significant conduction abnormality requiriung pacing (%)	1 (0.0)	0 (0.0)	0(0.0)	0 (0.0)	1 (0.0)	0 (0.0)
CPR (%)	11 (0.3)	2 (0.7)	3 (0.2)	1 (0.8)	8 (0.4)	1 (0.7)
Urgent cardiac surgery (%)	1 (0.0)	0 (0.0)	0 (0.0)	0 (0.0)	1 (0.0)	0 (0.0)