



המרכז הרפואי
הלל יפה

Recurrent Versus First, STEMI versus NSTEMI

Results from national Israel surveys ACSIS 2000-2010

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ACSIS 2000-2010 Acute MI – Baseline Characteristics (%)



ACS - 11,555 AMI 7,507

	STEMI		P	NSTEMI		P
	3,908 52%			3,599 48%		
	First	Recurrent		First	Recurrent	
N	3,107 79%	801 21%		2,305 64%	1,294 36%	
Age (yrs)	61	65	0.00001	65	69	0.00001
Female	23	20	0.06	25	19	0.0001
Diabetes	26	39	0.00001	34	46	0.0001
Hypertension	50	60	0.00001	60	74	0.00001
Current Smoker	45	40	0.02	34	25	0.00001
Ch. renal Failure	5	12	0.00001	11	26	0.00001
S/P CVA/TIA	5	11	0.00001	8	13	0.00001
Prior PCI	5	59	0.00001	12	62	0.00001
Prior CABG	1	12	0.00001	5	32	0.00001

ACSIS 2000-2010 Acute MI – Hospital Course (%)



	STEMI		P	NSTEMI		P
	3,908 52%			3,599 48%		
	First	Recurrent		First	Recurrent	
N	3,107	801		2,305	1,294	
	79%	21%		64%	36%	
Coronary angiography	81	77	0.02	74	65	0.00001
Any PCI	85	82	0.09	68	63	0.005
Killip ≥2	19	27	0.00001	15	28	0.00001
Primary VF	4	5	NS	0.3	1.2	0.004
Cardiogenic shock	4	7	0.002	2	4	0.00002
AVB 2nd or 3rd	4	6	NS	1	1	NS
Recurrent MI/Ischemia	7	11	0.002	7	10	0.007
Paroxysmal AF	6	9	0.008	6	7	NS
LVEF	46	42	0.0001	51	43	0.00001

ACSIS 2000-2010 Acute MI – Mortality (%)



	STEMI		P	NSTEMI		P
	3,908 52%			3,599 48%		
	First	Recurrent		First	Recurrent	
N	3,107 79%	801 21%		2,305 64%	1,294 36%	
Age (yrs)	61	65		65	69	
Hospital	4.9	7.4	0.007	3.3	5.2	0.006
30 days	5.6	8.7	0.002	4.0	6.4	0.002
6 months	7.8	13.3	0.00001	7.7	12.3	0.00001
1 year	8.7	16.2	0.00001	9.7	16.4	0.00001

ACSIS 2000–2010 Acute MI Summary and Conclusions

- ◀ Recurrent AMI patients are older and have more co-morbidity, and higher rate of hospital complications and mortality.
- ◀ NSTEMI in comparison with STEMI patients are older, have more co-morbidity, a lower hospital mortality and complications, but a similar 1-year mortality.
- ◀ It seems that these AMI cohorts, STEMI and NSTEMI, aren't similar and may warrant a different therapeutic approach.