

### Long-Term (4-years) Outcome of Hospitalized Patients with Acute Decompensated and Chronic Heart Failure: Data from HFSIS 2003

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The prognosis of pts hospitalized with acute decompensated heart failure (ADHF) is grave. Most studies and registries have included hospitalized pts with ADHF, while pts with chronic HF hospitalized for other reasons were excluded. Data on the long-term outcome of hospitalized ADHF pts as compared to chronic HF pts are scarce.

Methods: We compared the characteristics, management and short- and long-term (4-years) mortality of 3 groups of hospitalized HF pts: acute, acute on chronic and chronic, from the heart failure national Israeli Survey (HFSIS) in 2003, hospitalized in all cardiology and internal medicine wards in Israel. Results: (see Table).

\*By Cox model adjusted for: age, DM, Hypertension, eGFR<60 ml/min, Hb<12 gr/dl, Na<136 meq/L, ACS, A. Fib, NYHA III/IV, COPD, stroke/TIA and malignancy.

Conclusions: The characteristics, etiology, management and outcome of hospitalized HF pts differ by their presentation. While the early outcome of acute HF pts is the worse, their late outcome is better as compared to counterpart pts with chronic or acute on chronic HF who had the worst outcome. Trials and registries of HF should interpret their data according to pts presentation and history.

	Acute (n=724), %	Acute on chronic (n=1612), %	Chronic (n=1671), %	P-value
Age, yrs	71±14	75±11	73±11	<0.0001
ACS	57	32	32	<0.0001
Anemia (Hb<12 gr%)	38	48	45	<0.001
COPD	14	22	29	<0.0001
eGFR<60 ml/min	44	54	48	<0.0001
LVEF <40%	45	54	55	<0.001
NYHA III/IV	22	55	36	<0.0001
IV Inotrops	12	7	4	<0.0001
IV Diuretics	71	82	36	<0.0001
Discharge medications:				
ACE-I	65	59	54	<0.0001
ARB	8	11	11	0.02
β-blockers	63	60	56	<0.005
Furosemide	63	86	68	<0.0001
Spirolactone	10	28	18	<0.0001
Digoxin	10	18	14	<0.0001
Mortality:				
In-hospital	6.6	5.1	3.4	0.02
Adj. HR (95% CI)*	1.0	0.53 (0.35-0.79)	0.40 (0.26-.62)	
1-year	22.3	32.5	27.6	<0.0001
Adj. HR (95% CI)*	1.0	1.08 (0.89-1.31)	0.99 (0.81-1.20)	
4-year	46.0	66.5	55.4	<0.0001
Adj. HR (95% CI)*	1.0	1.21 (1.07-1.39)	1.06 (0.93-1.21)	