

SUPPLEMENTARY DATA

Supplementary Table 1s. Baseline clinical characteristics as well as 1-year cumulative rates of clinical outcomes of the subgroups of CHF patients with diabetes stratified by the availability of HbA1c measurements at the study entry.

	Patients with diabetes- HbA1c available (n=1,603)	Patients with diabetes- HbA1c missing (n=1,837)	P-value
Male, n (%)	76.6	73.1	0.019
Age, years	66.7±11	67.5±11	0.007
Ethnicity (Caucasian), %	95.0	95.6	0.409
BMI, Kg/m²	29.5±5.4	29.4±5.1	0.626
Systolic blood pressure, mmHg	126.6±20.8	126.4±21.9	0.835
Diastolic blood pressure, mmHg	73.0±11.7	74.2±12.6	0.010
Total cholesterol, mg/dL	164±93	158±45	0.048
Diabetes medications, %	74.6	69.2	<0.001
Insulin	46.3	43.0	
Oral hypoglycemic drugs only	53.7	57.0	
Plasma glucose, mg/dL	144±57	142±64	0.968
HbA_{1c}, %	6.9 [6.4-7.9]	-	-
HbA_{1c}, mmol/mol	51.9 [46.4-62.8]	-	-
Hypertension, %	71.1	71.2	0.980
Current smokers, %	9.1	9.4	0.797
Lipid-lowering medications, %	72.5	66.4	<0.001
Cardiovascular medications, %			
ACE-Inhibitors or ARBs	89.3	86.1	0.006
Beta-blockers	86.8	85.3	0.230
Aldosterone-antagonists	52.5	55.6	0.073
Diuretics	85.9	88.0	0.077
Digitalis	21.9	25.9	0.008
Calcium channel blockers	14.2	14.6	0.723
Anti-platelets or anticoagulants	86.4	85.3	0.380
Nitrates	23.2	23.9	0.648
Amiodarone	13.4	14.8	0.236
e-GFR_{MDRD} <60 mL/min/1.73 m², %	52.1	52.7	0.724
NT-proBNP, pg/dL	1,170 [490-2,987]	1,593 [663-4,160]	0.131
LVEF, %	37.3±13	36.9±13	0.317
LVEF >45%, %	23.7	21.7	0.190
HF etiology, %			
Ischemic	24.3	23.4	
Hypertensive	8.2	8.7	
Dilated	53.5	53.4	
Other	14.1	14.4	
Chronic Obstructive Pulmonary Diseases, %	17.3	16.0	0.297
Previous stroke, %	10.1	11.3	0.251
1-year all-cause death, %	8.5	10.2	0.080
1-year CVD death, %	4.6	5.1	0.487
1-year HF hospitalization, %	13.2	14.3	0.355

Data presented as either means±SD or medians and interquartile ranges (in parenthesis) or percentages.

Abbreviations: CHF, chronic heart failure; BMI, body mass index; ACE, Angiotensin Converting Enzyme; ARBs, Angiotensin Receptor Blockers; LVEF, left ventricular ejection fraction; NYHA, New York Heart Association; e-GFR_{MDRD}, glomerular filtration rate estimated according to the Modification of Diet in Renal Disease (MDRD) study equation; NT-proBNP, N-terminal of the prohormone brain natriuretic peptide.

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Supplementary Table 2_s. Baseline clinical characteristics as well as 1-year cumulative rates of clinical outcomes of the subgroups of CHF patients without diabetes stratified by the availability of HbA1c measurements available at the study entry.

	Patients without diabetes- HbA1c available (n=964)	Patients without diabetes- HbA1c missing (n=5,024)	P-value
Male, n (%)	70.9	69.5	0.392
Age, years	61.4±14	64.2±15	<0.001
Ethnicity (Caucasian), %	92.2	94.7	0.003
BMI, Kg/m²	27.6±5.1	27.2±4.8	0.029
Systolic blood pressure, mmHg	121.7±20.1	123.5±20.7	0.004
Diastolic blood pressure, mmHg	73.9±11.7	73.9±12.3	0.646
Total cholesterol, mg/dL	179±44	171±44	0.048
Plasma glucose, mg/dL	95±13	94±13	0.172
HbA_{1c}, %	5.7 [5.4-6.0]	-	-
HbA_{1c}, mmol/mol	38.8 [35.5-42.1]	-	-
Hypertension, %	48.2	52.4	0.019
Current smokers, %	16.7	11.7	<0.001
Lipid-lowering medications, %	52.0	49.9	0.239
Cardiovascular medications, %			
ACE-Inhibitors or ARBs	86.8	85.4	0.279
Beta-blockers	86.5	85.5	0.468
Aldosterone-antagonists	58.5	53.1	0.003
Diuretics	71.3	78.8	<0.001
Digitalis	16.5	21.1	0.001
Calcium channel blockers	10.5	9.8	0.523
Anti-platelets or anticoagulants	73.5	75.0	0.318
Nitrates	17.0	15.2	0.154
Amiodarone	10.8	14.4	0.004
e-GFR_{MDRD} <60 mL/min/1.73 m², %	36.6	40.1	0.047
NT-proBNP, pg/dL	968 [333-2,547]	1,380 [540-3,619]	<0.001
LVEF, %	38.3±13	37.8±14	0.154
LVEF >45%, %	25.1	24.6	0.759
HF etiology, %			0.401
Ischemic	34.4	31.9	
Hypertensive	7.5	8.2	
Dilated	36.6	36.9	
Other	21.5	23.0	
Chronic Obstructive Pulmonary Diseases, %	13.3	12.5	0.472
Previous stroke, %	8.2	8.6	0.675
1-year all-cause death, %	7.1	7.3	0.817
1-year CVD death, %	3.7	3.8	0.897
1-year HF hospitalization, %	7.2	9.7	0.055

Data presented as either means±SD or medians and interquartile ranges (in parenthesis) or percentages.

Abbreviations: CHF, chronic heart failure; BMI, body mass index; ACE, Angiotensin Converting Enzyme; ARBs, Angiotensin Receptor Blockers; LVEF, left ventricular ejection fraction; NYHA, New York Heart Association; e-GFR_{MDRD}, glomerular filtration rate estimated according to the Modification of Diet in Renal Disease (MDRD) study equation; NT-proBNP, N-terminal of the prohormone brain natriuretic peptide.

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Supplementary Table 3s. Association between reduced vs. preserved left ventricular ejection fraction (LVEF) at the study entry and risk of 1-year clinical outcomes in the whole cohort of patients with CHF stratified by diabetes status.

Group(s)	Outcome(s)	LVEF cut-offs (%)	Events/patients	Rate per 100 patient-years (95% CI)	Unadjusted HR (95% CI)	Adjusted HR* (95% CI)
Patients with diabetes	All-causes death	<45%	219/2127	10.3 (9.0-11.7)	1.32 (1.01-1.73)	1.15 (0.95-1.70)
		≥45%	68/842	8.1 (6.3-10.1)	Ref.	Ref.
	Cardiovascular death	<45%	120/2127	5.6 (4.7-6.7)	1.96 (1.27-3.02)	1.59 (1.00-2.51)
		≥45%	25/842	3.0 (1.9-4.4)	Ref.	Ref.
	HF hospitalization	<45%	332/2127	15.6 (14.1-17.2)	1.46 (1.15-1.84)	1.52 (1.19-1.94)
		≥45%	92/842	10.9 (8.9-13.2)	Ref.	Ref.
	Patients without diabetes	All-causes death	<45%	269/3541	7.6 (6.7-8.5)	1.26 (1.00-1.60)
			≥45%	94/1558	6.0 (4.9-7.3)	Ref.
		Cardiovascular death	<45%	145/3541	4.1 (3.5-4.8)	1.16 (0.85-1.58)
			≥45%	55/1558	3.5 (2.7-4.6)	Ref.
		HF hospitalization	<45%	374/3541	10.6 (9.6-11.6)	1.62 (1.30-2.02)
			≥45%	101/1558	6.5 (5.3-7.8)	Ref.

CI=confidence interval, HR=hazard ratio.

*Covariates for adjustment: age, sex, systolic blood pressure, eGFR_{MDRD}, HF etiology and hemoglobin values.

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Supplementary Table 4s. Association between HF etiology at the study entry and risk of 1-year clinical outcomes in the whole cohort of patients with CHF stratified by diabetes status.

Group(s)	Outcome(s)	HF etiology	Events/patients	Rate per 100 patient-years (95% CI)	Unadjusted HR (95% CI)	Adjusted HR* (95% CI)
Patients with diabetes	All-causes death	Ischemic	197/1833	10.7 (9.4-12.3)	1.40 (1.12-1.75)	1.19 (0.92-1.54)
		Non-ischemic	125/1597	7.8 (6.6-9.3)	Ref.	Ref.
	Cardiovascular death	Ischemic	99/1833	5.4 (4.4-6.5)	1.34 (0.98-1.83)	1.06 (0.74-1.51)
		Non-ischemic	66/1597	4.1 (3.2-5.2)	Ref.	Ref.
	HF hospitalization	Ischemic	254/1833	13.9 (12.3-15.5)	1.00 (0.83-1.20)	0.90 (0.73-1.10)
		Non-ischemic	221/1597	13.8 (12.2-15.6)	Ref.	Ref.
Patients without diabetes	All-causes death	Ischemic	195/2188	8.9 (7.8-10.2)	1.47 (1.22-1.78)	1.11 (0.88-1.40)
		Non-ischemic	233/3754	6.2 (5.5-7.0)	Ref.	Ref.
	Cardiovascular death	Ischemic	108/2188	4.9 (4.1-5.9)	1.62 (1.25-2.10)	1.29 (0.96-1.73)
		Non-ischemic	117/3754	3.1 (2.6-3.7)	Ref.	Ref.
	HF hospitalization	Ischemic	219/2188	10.0 (8.8-11.3)	1.12 (0.94-1.33)	0.85 (0.68-1.05)
		Non-ischemic	336/3754	9.0 (8.1-9.9)	Ref.	Ref.

CI=confidence interval, HR=hazard ratio.

*Covariates for adjustment: age, sex, systolic blood pressure, eGFR_{MDRD}, LV ejection fraction and hemoglobin values.

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Supplementary Table 5s. Association between diabetes treatment at the study entry and risk of 1-year clinical outcomes in the subgroup of patients with CHF and diabetes.

Group	Outcome(s)	Diabetes treatment	Events/patients	Rate per 100 patient-years (95% CI)	Unadjusted HR (95% CI)	Adjusted HR* (95% CI)
Patients with diabetes	All-causes death	Insulin	111/1078	10.3 (8.5-12.3)	0.93 (0.68-1.27)	0.93 (0.64-1.33)
		Oral agents	106/1339	7.9 (6.5-9.5)	0.69 (0.50-0.94)	0.73 (0.50-1.05)
		Diet	62/556	11.2 (8.7-14.1)	Ref.	Ref.
	Cardiovascular death	Insulin	57/1078	5.3 (4.0-6.8)	0.82 (0.54-1.25)	0.84 (0.51-1.37)
		Oral agents	48/1339	3.6 (2.7-4.7)	0.54 (0.35-0.82)	0.63 (0.38-1.06)
		Diet	36/556	6.5 (4.6-8.9)	Ref.	Ref.
	HF hospitalization	Insulin	185/1078	17.2 (15.0-19.5)	1.49 (1.12-1.98)	1.24 (0.89-1.71)
		Oral agents	172/1339	12.8 (11.1-14.8)	1.05 (0.79-1.41)	1.04 (0.75-1.45)
		Diet	67/556	12.1 (9.5-15.0)	Ref.	Ref.

CI=confidence interval, HR=hazard ratio.

*Covariates for adjustment: age, sex, systolic blood pressure, eGFR_{MDRD}, HF etiology, LV ejection fraction and hemoglobin values.

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