



VŠEOBECNÁ FAKULTNÍ
NEMOCNICE V PRAZE



1. LÉKAŘSKÁ
FAKULTA
Univerzita Karlova

Co z novinek v updatu není?

Aleš Linhart



SUPLEMENTACE IV PREPARÁTY ŽELEZA

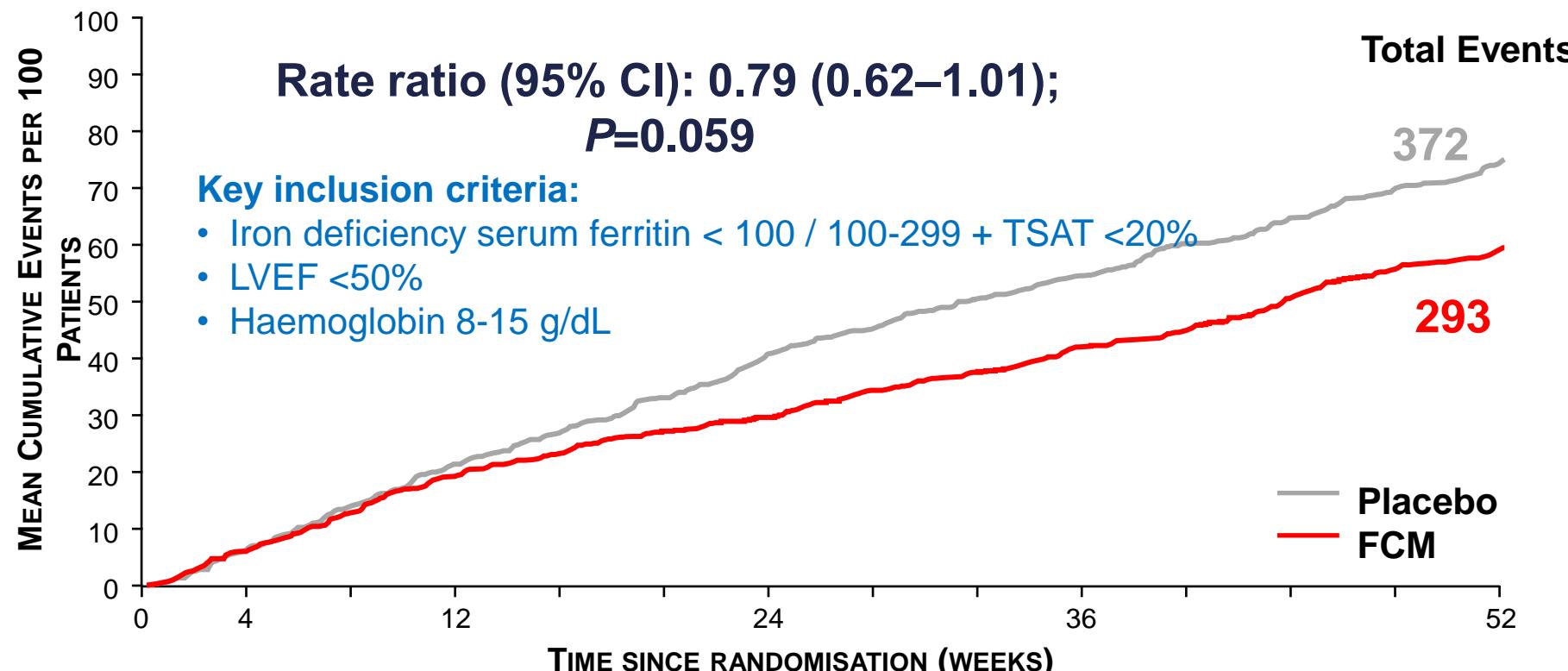
Suplementace železem

Intravenous iron supplementation with ferric carboxymaltose should be considered in symptomatic HF patients recently hospitalized for HF and with LVEF $\leq 50\%$ and iron deficiency, defined as serum ferritin $<100 \text{ ng/mL}$ or serum ferritin $100–299 \text{ ng/mL}$ with TSAT $<20\%$, to reduce the risk of HF hospitalization.

IIa

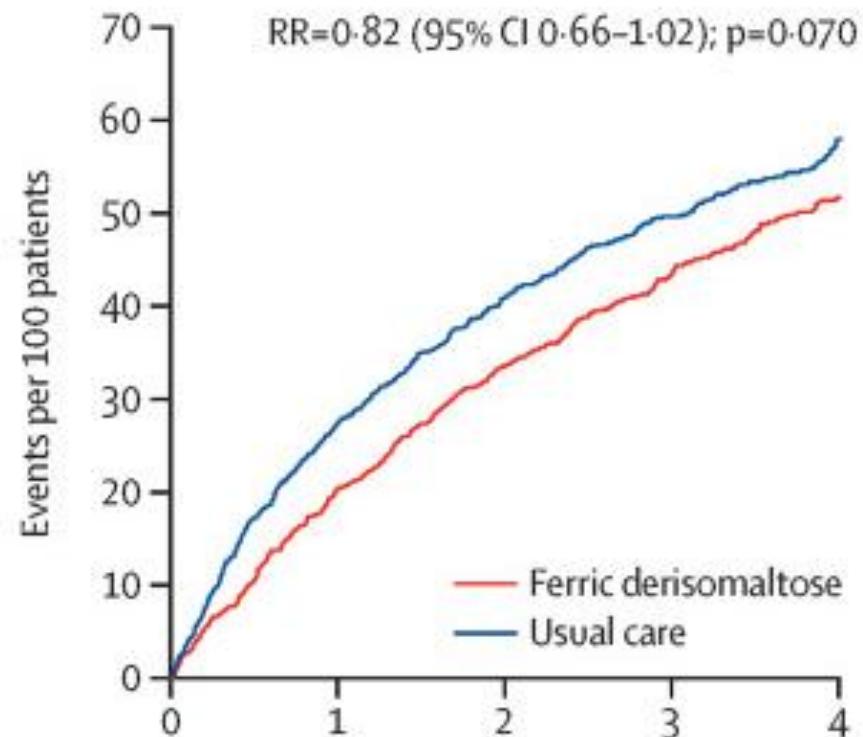
AFFIRM HF - PRIMARY ENDPOINT

ferrum karboxymaltóza



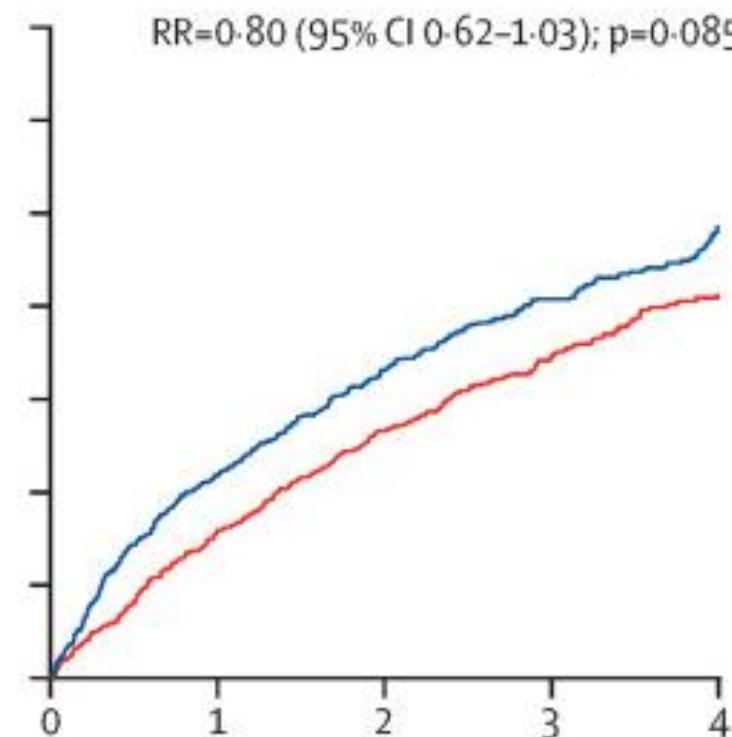
IRONMAN – ferric derisomaltosa u HF s LVEF<45%

KV úmrtí, hospitalizace pro HF,



Number at risk	
Ferric derisomaltose	569
Usual care	568

Hospitalizace pro HF,



Number at risk	
Ferric derisomaltose	569
Usual care	568

Doporučení pro suplementaci železem

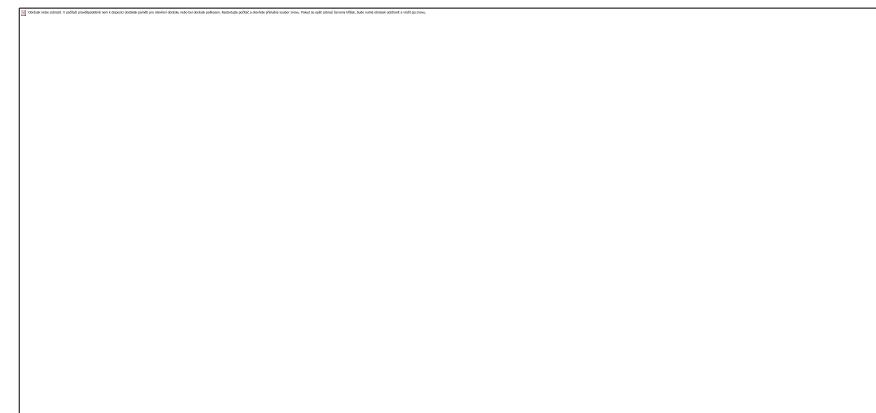
Recommendations	Class ^a	Level ^b
Intravenous iron supplementation is recommended in symptomatic patients with HFrEF and HFmrEF, and iron deficiency, to alleviate HF symptoms and improve quality of life. ^c 12,41,47–49	I	A
Intravenous iron supplementation with ferric carboxymaltose or ferric derisomaltose should be considered in symptomatic patients with HFrEF and HFmrEF, and iron deficiency, to reduce the risk of HF hospitalization. ^c 12,41,43–46	IIa	A

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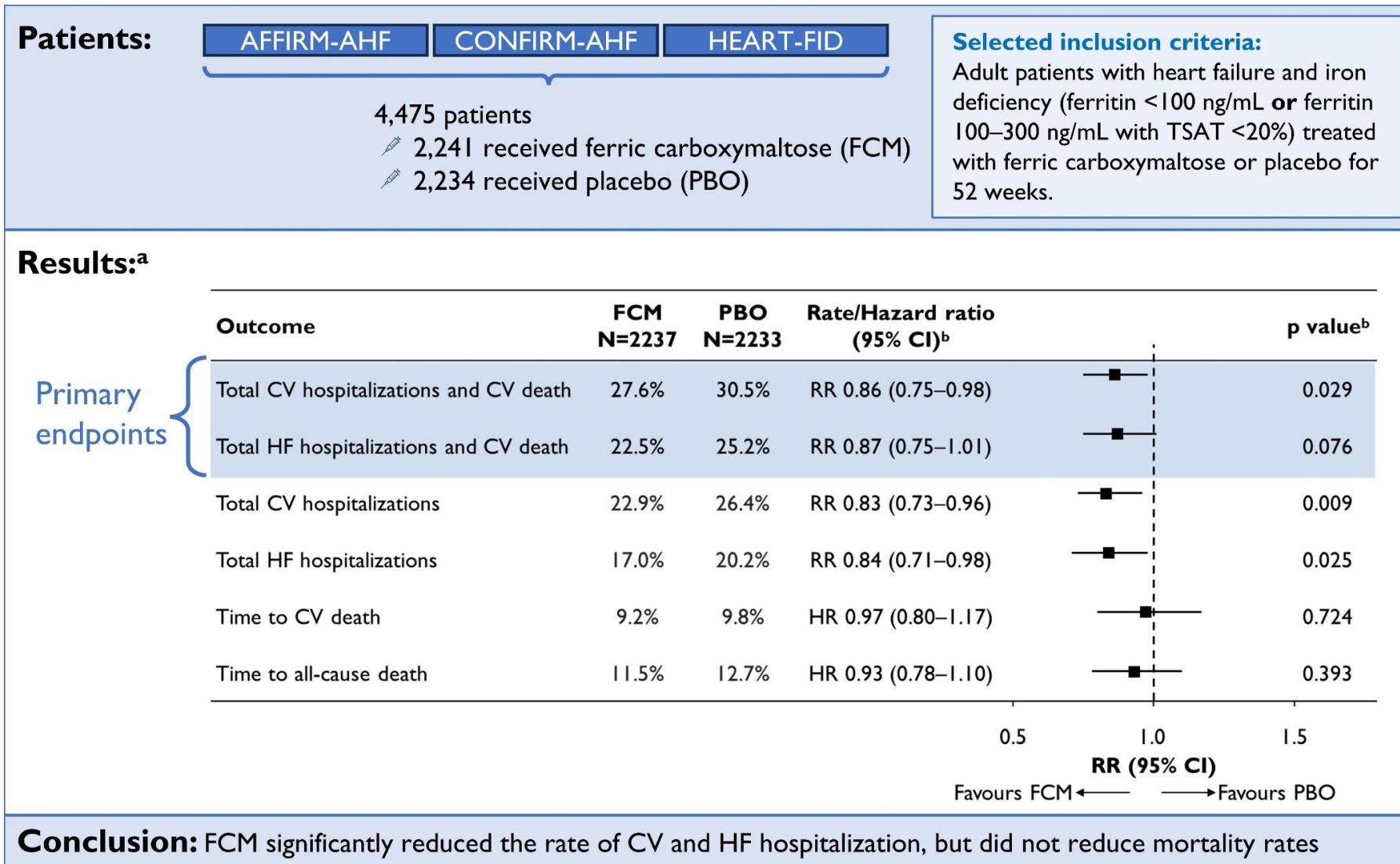


HEART-FID

- ambulatory patients with heart failure, a left ventricular ejection fraction of 40% or less, and iron deficiency



Heart failure iron deficiency - metaanalysis



HF-PEF / MR-EF

Management of patients with HFmrEF

Diuretics for fluid retention (Class I)

Dapagliflozin/
Empagliflozin (Class I)

ACEI/ARNI/ARB
(Class IIb)

MRA
(Class IIb)

Beta-blocker
(Class IIb)

Management of patients with HFpEF

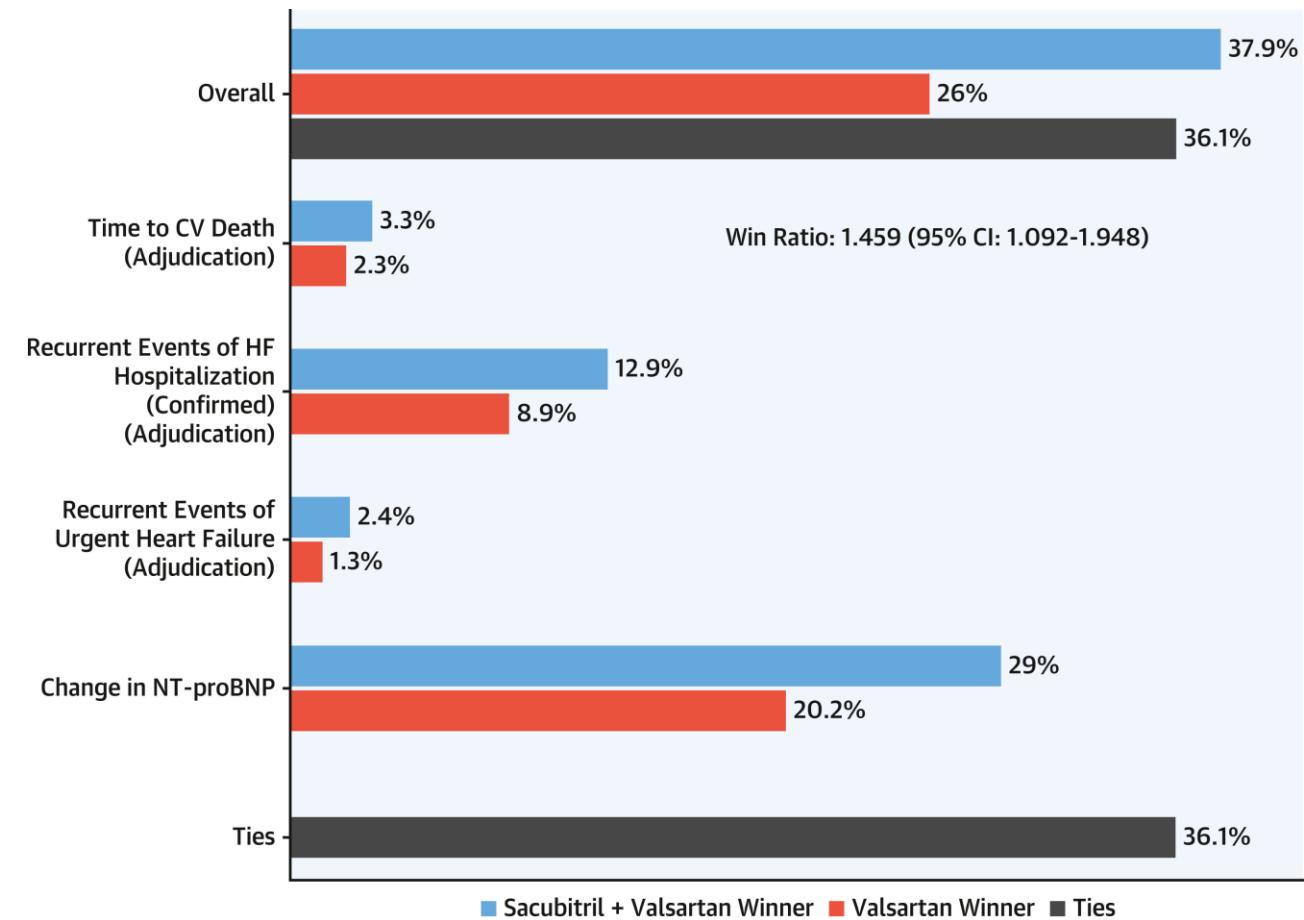
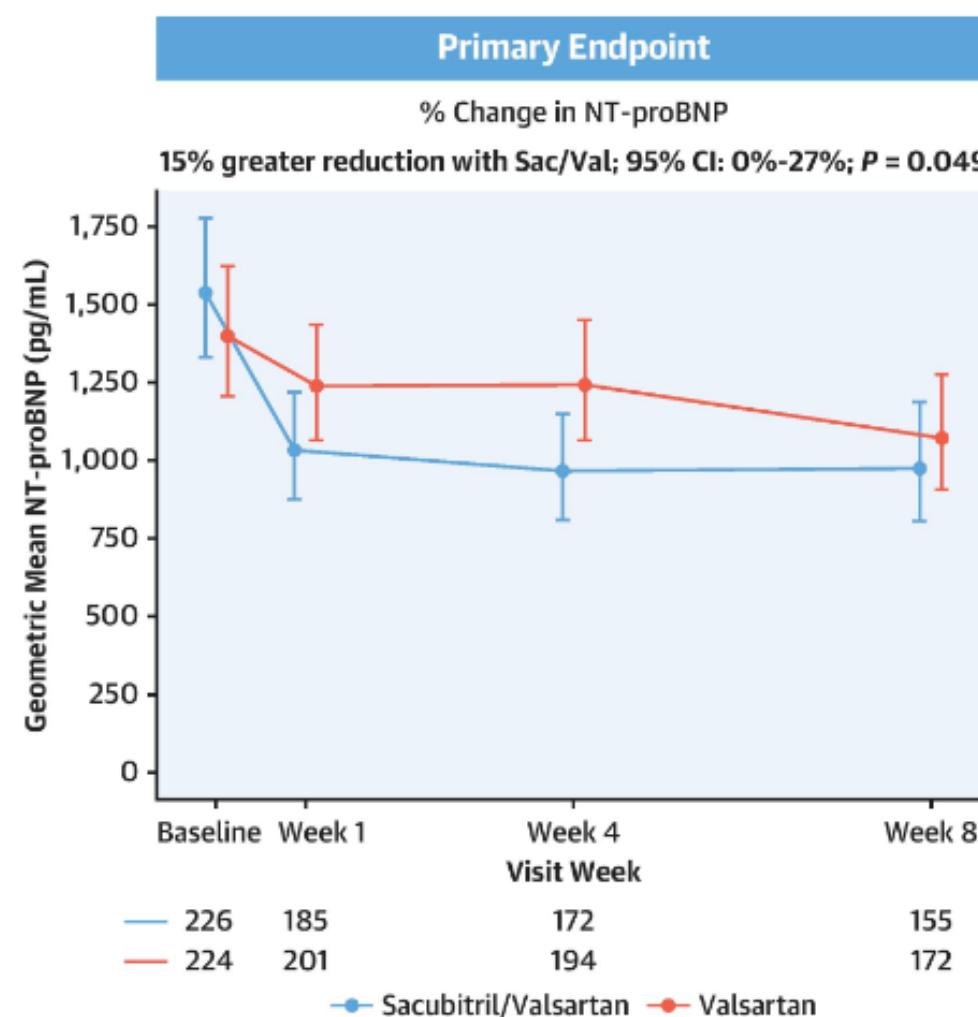
Diuretics for fluid retention (Class I)

Dapagliflozin/
Empagliflozin (Class I)

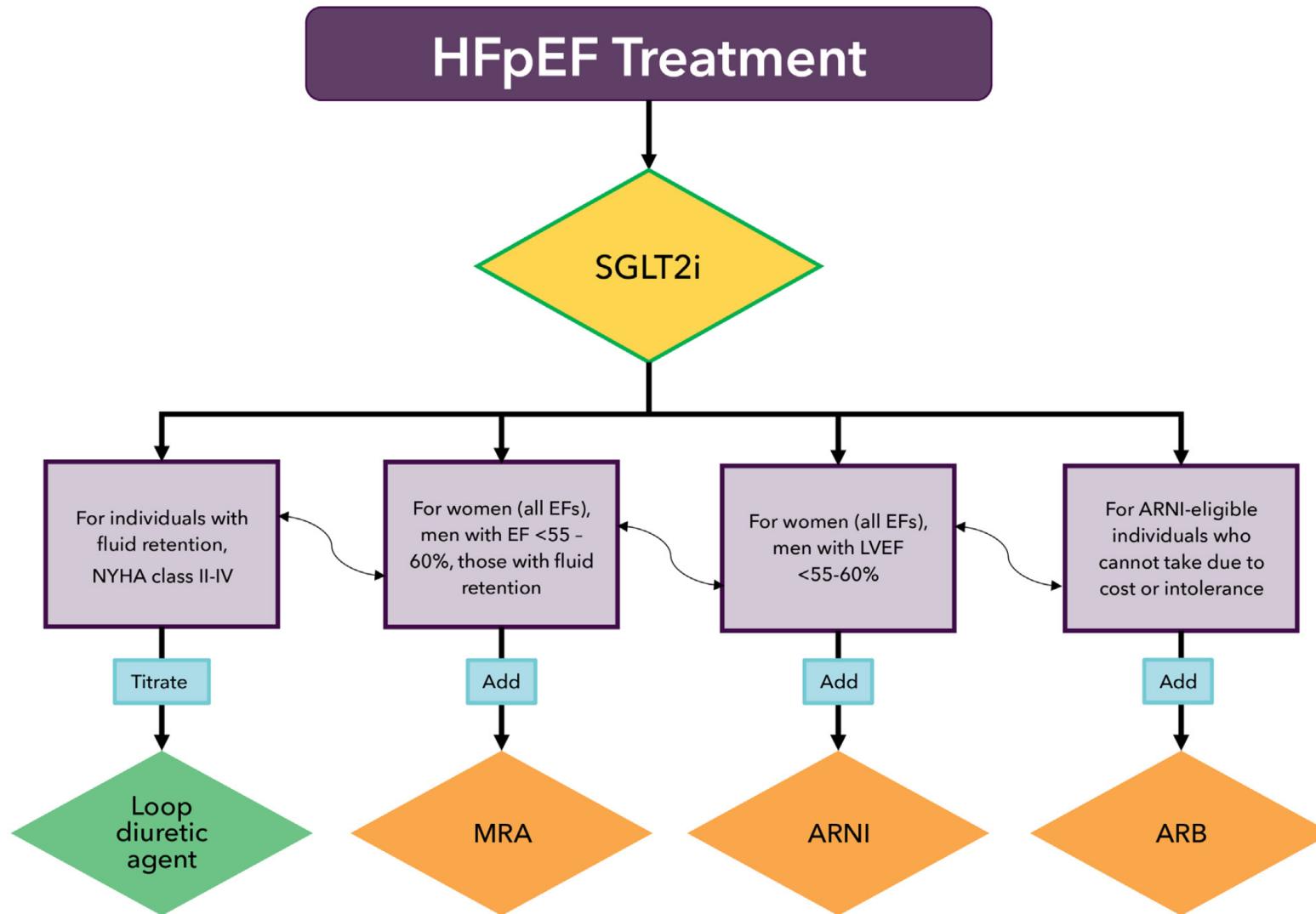
Treatment for aetiology,
CV and non-CV comorbidities (Class I)

PRAGLIDE -HF

PARAGLIDE-HF evaluated the effect of sacubitril/valsartan versus valsartan on changes in NT-proBNP, safety and tolerability in heart failure patients with EF above 40% who had been stabilised after a worsening heart failure event

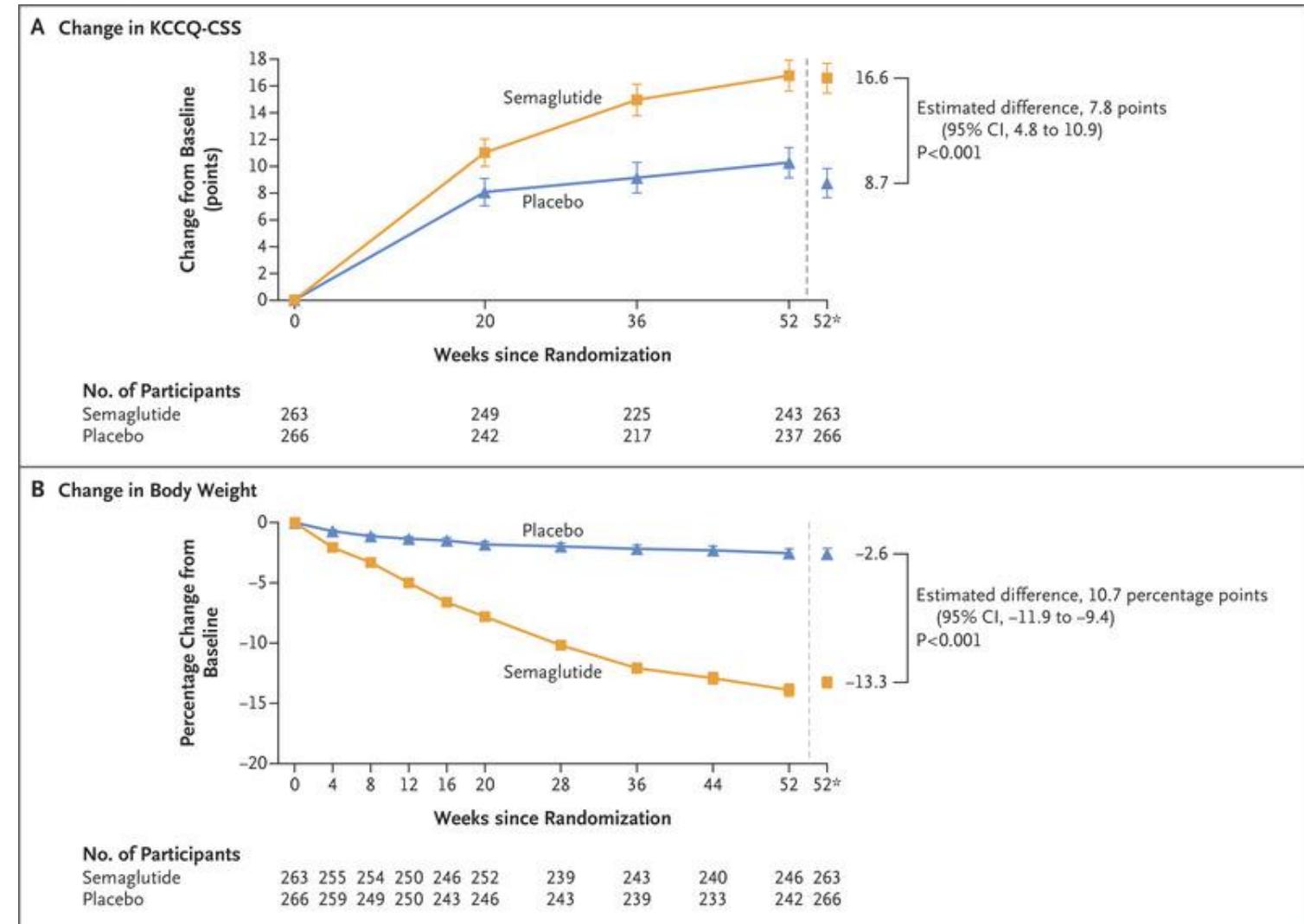


Sekvence léčby dle konsensu ACC



STEP-HF-PEF: Semaglutid u nemocných s HF-pEF a obezitou

529 patients who had heart failure with preserved ejection fraction and a body-mass index (the weight in kilograms divided by the square of the height in meters) of 30 or higher to receive once-weekly semaglutide (2.4 mg) or placebo for 52 weeks.



STOP ACEI?

STOP ACEi

- N=411, RAS inhibitor > 6 měsíců
- eGFR < 30 ml/min/1,73m² a pokles eGFR > 2 ml/min/1,73m² / 2 roky

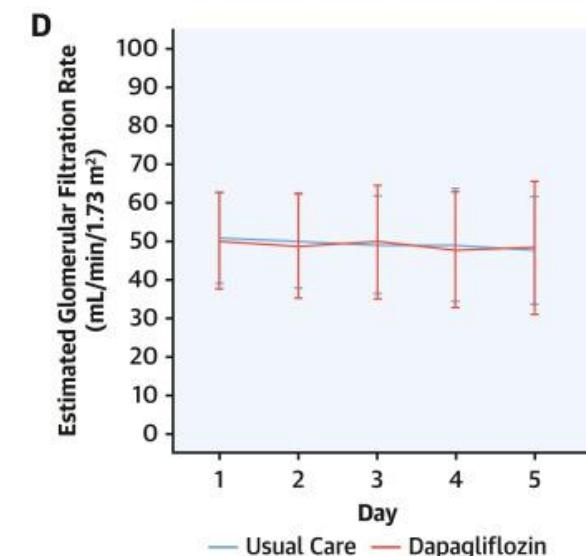
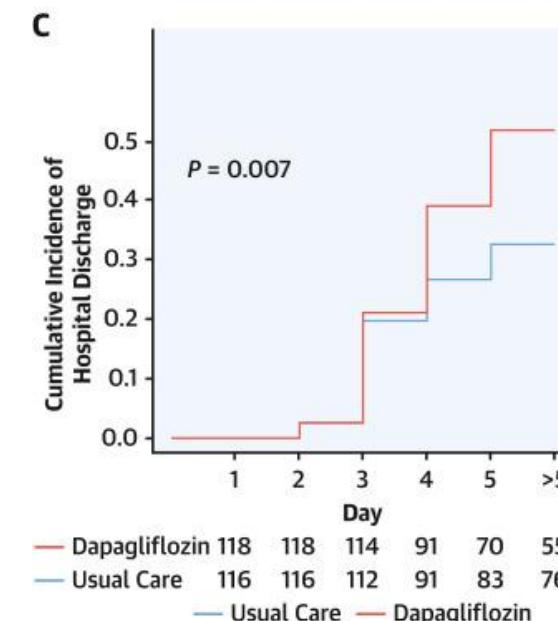
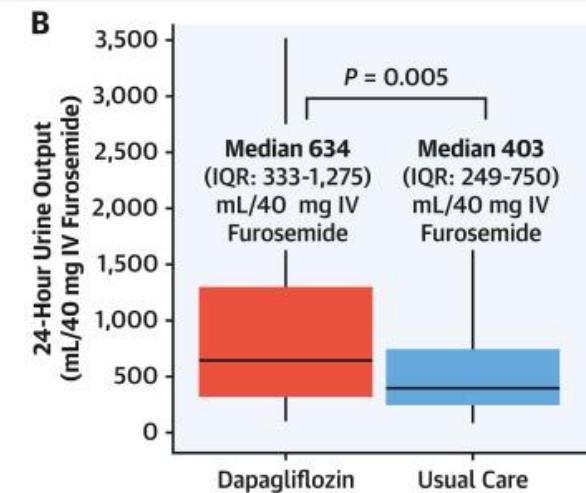
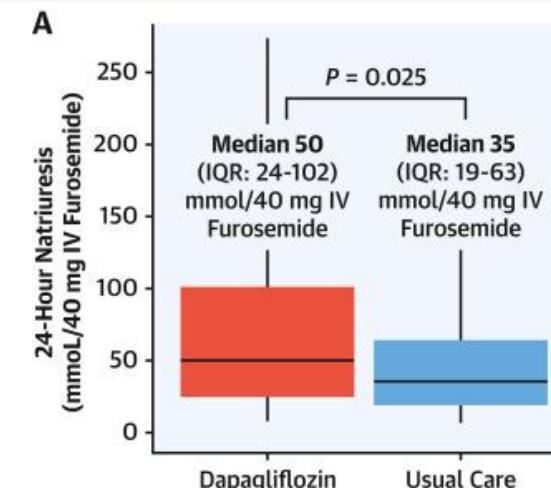
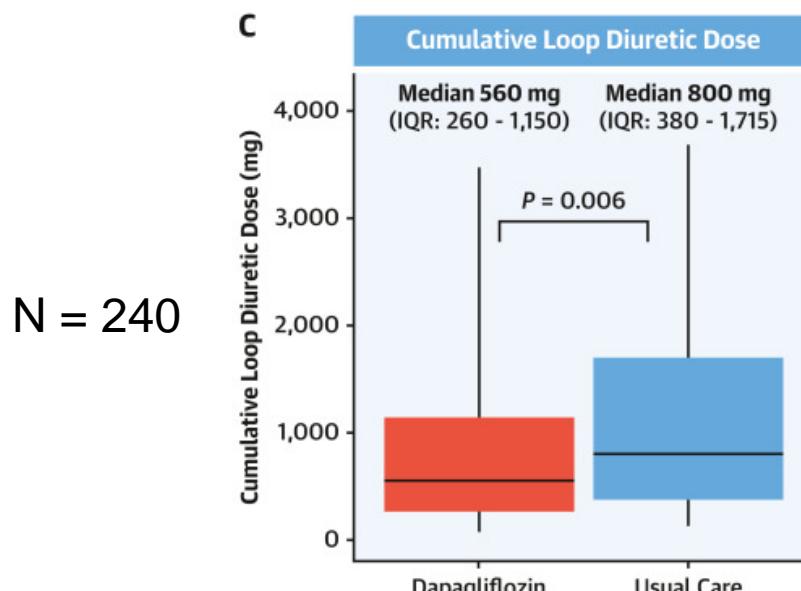
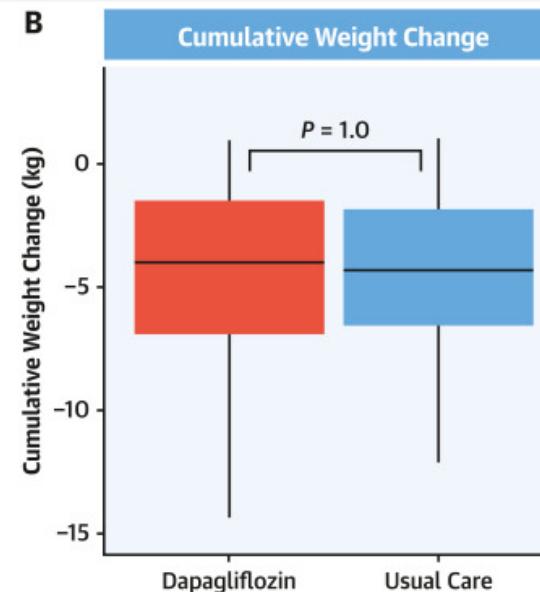
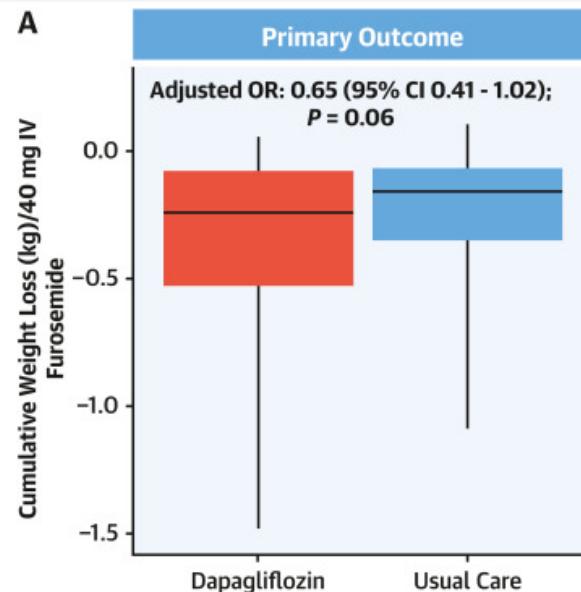
13,3±0,6 vs. 12,6±0,7, p = 0,42

HR 1,28 /0,99-1,65)

MACE 43 % (pokračování) vs. 52% (přerušení) – p = NS

RESTRIKCE SOLI A DIURETICKÁ TERAPIE

DICTATE-HF dapagliflozin u akutního srdečního selhání



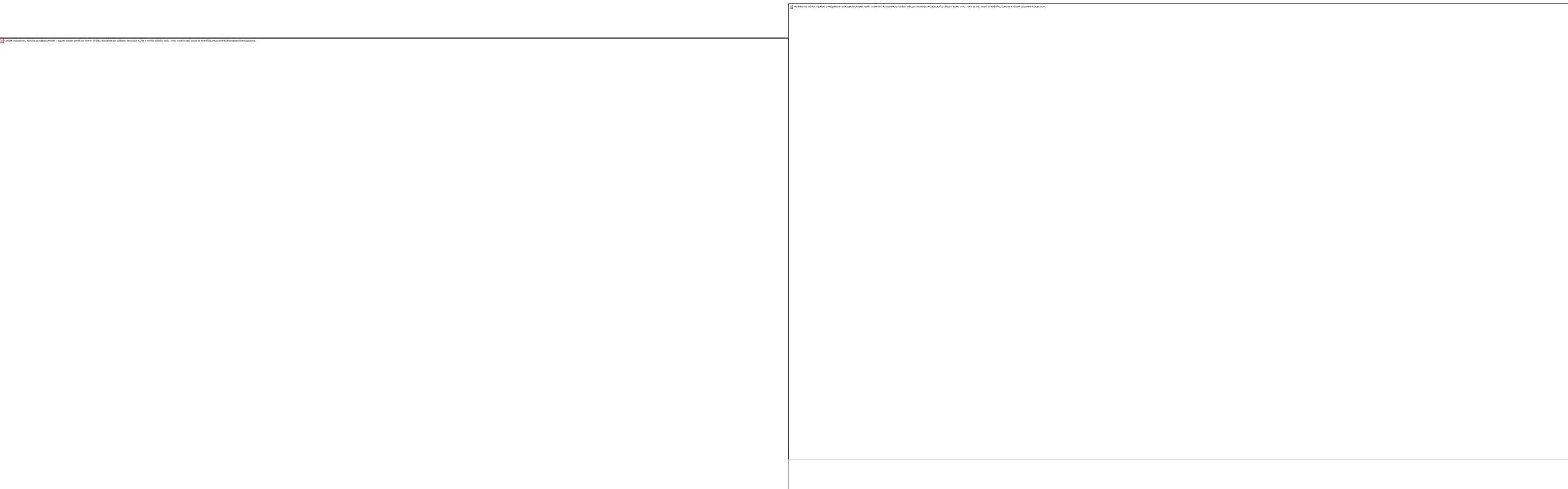
ADVOR: Acetazolamid u akutně dekompenzovaného srdečního selhání

intravenous acetazolamide (500 mg once daily) or placebo added to standardized intravenous loop diuretics (at a dose equivalent to twice the oral maintenance dose).

519 patients underwent randomization. Successful decongestion occurred in 108 of 256 patients (42.2%) in the acetazolamide group and in 79 of 259 (30.5%) in the placebo group (risk ratio, 1.46; 95% confidence interval [CI], 1.17 to 1.82; $P<0.001$).

Furosemid vs. torasemid - TRANSFORM-HF

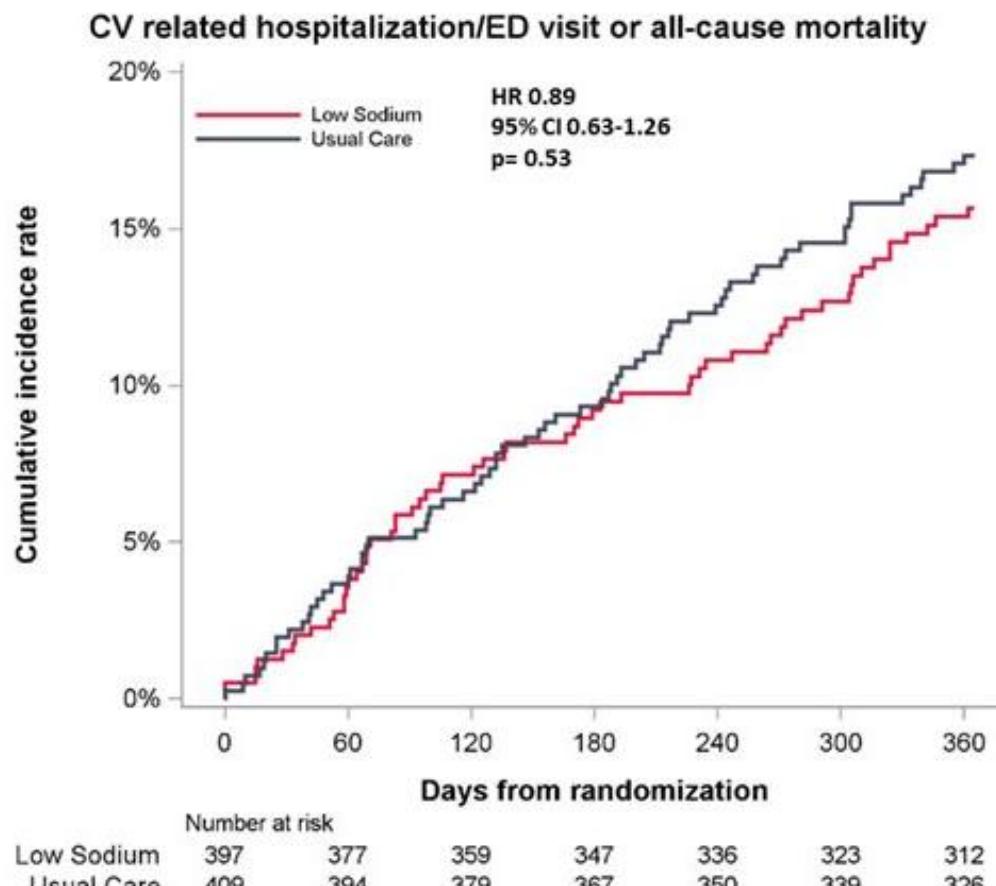
2859 pacientů hospitalizovaných pro srdeční selhání (bez ohledu na ejekční frakci)
Torasem,id – lepší biologická dostupnost a delší plazmatický poločas



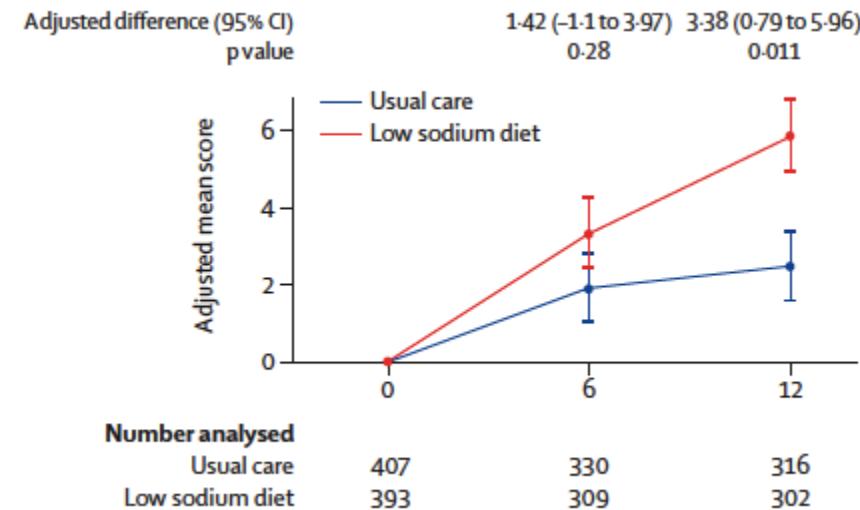
Circulation. 2023;148:124–134

SODIUM-HF přísná restrikce soli vs. běžná péče

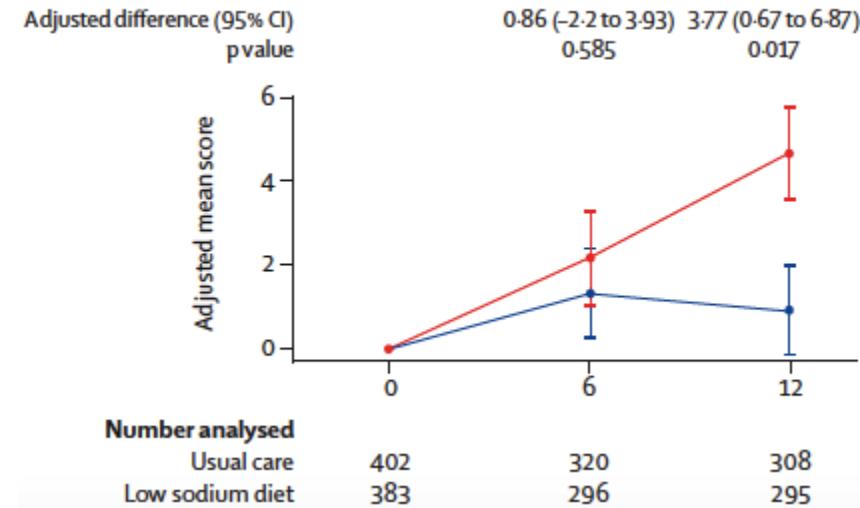
NYHA II-III, usual care according to local guidelines or a low sodium diet of less than 1500 mg/day.



KCCQ OSS

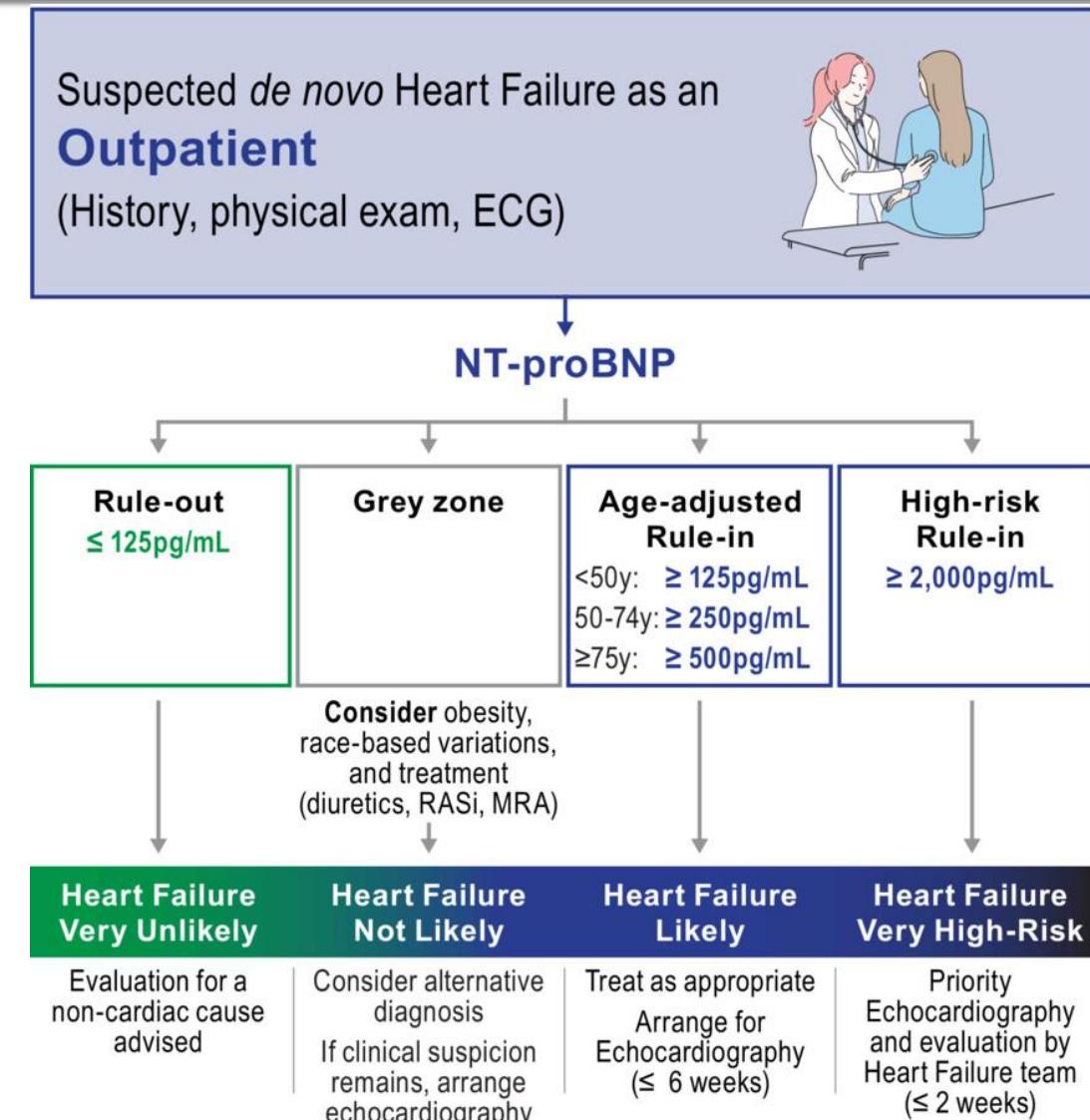


KCCQ PLS



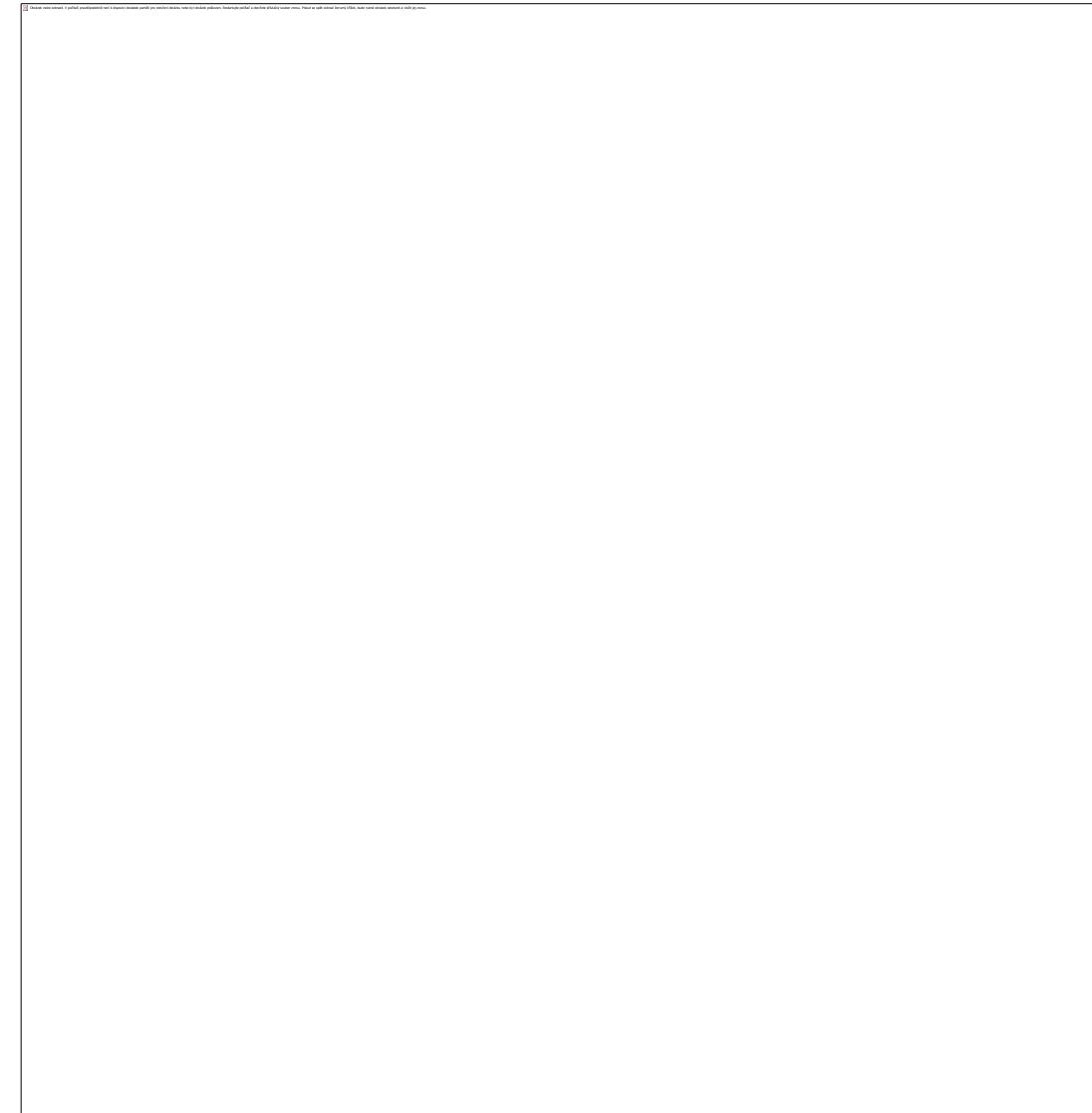
CUT-OFF HODNOTY PRO POZITIVNÍ DIAGNÓZU SRDEČNÍHO SELHÁNÍ

Practical algorithms for early diagnosis of heart failure and heart stress using NT-proBNP: A clinical consensus statement from the HFA of the ESC



HEART STRESS

'Heart stress' is introduced to identify asymptomatic individuals with risk factors and elevated plasma NPs, irrespective of the presence or absence of structural heart disease or cardiac dysfunction.



AT RISK FOR HEART FAILURE (STAGE A)

Patients at risk for HF but without current or prior symptoms or signs of HF and without structural, biomarker, or genetic markers of heart disease

Patients with HTN, CVD, DM, obesity, known exposure to cardiotoxins, family history of cardiomyopathy

PRE-HEART FAILURE (STAGE B)

Patients without current or prior symptoms or signs of HF but evidence of one of the following

Structural heart disease:
e.g. LVH, chamber enlargement, wall motion abnormality, myocardial tissue abnormality, valvular heart disease

Abnormal cardiac function: e.g. reduced LV or RV ventricular systolic function, evidence of increased filling pressures or abnormal diastolic dysfunction

Elevated natriuretic peptide levels or elevated cardiac troponin levels in the setting of exposure to cardiotoxins

HEART FAILURE (STAGE C)

Patients with current or prior symptoms and/or signs of HF caused by

Structural and/or functional cardiac abnormality

Heart Failure in Remission

Persistent Heart Failure

ADVANCED HEART FAILURE (STAGE D)

Severe symptoms and/or signs of HF at rest, recurrent hospitalizations despite GDMT, refractory or intolerant to GDMT

Requiring advanced therapies such as consideration for transplant, mechanical circulatory support, or palliative care

with GDMT and risk factor modification

EF, ejection fraction; HF, heart failure; LVEF, left ventricular ejection fraction.
Bozkurt B et al. Eur J Heart Fail. 2021;23:352.

Závěry

- Oblast srdečního selhání se vyvíjí rychle a guidelines nemohou podchytit poslední trendy v jejich celku
- Odstup od provedených studií je často na místě
- Některé studie minuly cíl jen o málo – přílišné lpění na splnění primárního cíle někdy zastíní možné benefity (sacubitril valsartan u HF-pEF, dapagliflozin u akutního selhání)
- Některé terapie pravděpodobně do praxe proniknou velmi obtížně (acetazolamid)