

2018 American Heart Association Scientific Sessions – Chicago, IL

November 10 - November 14

SCIENTIFIC SESSIONS 2018

Chicago, Illinois
November 10-12



SCIENTIFIC 20
SESSIONS 18



ORIGINAL ARTICLE

Dapagliflozin and Cardiovascular Outcomes in Type 2 Diabetes

S.D. Wiviott, I. Raz, M.P. Bonaca, O. Mosenzon, E.T. Kato, A. Cahn, M.G. Silverman, T.A. Zelniker, J.F. Kuder, S.A. Murphy, D.L. Bhatt, L.A. Leiter, D.K. McGuire, J.P.H. Wilding, C.T. Ruff, I.A.M. Gause-Nilsson, M. Fredriksson, P.A. Johansson, A.-M. Langkilde, and M.S. Sabatine, for the DECLARE–TIMI 58 Investigators*

ABSTRACT

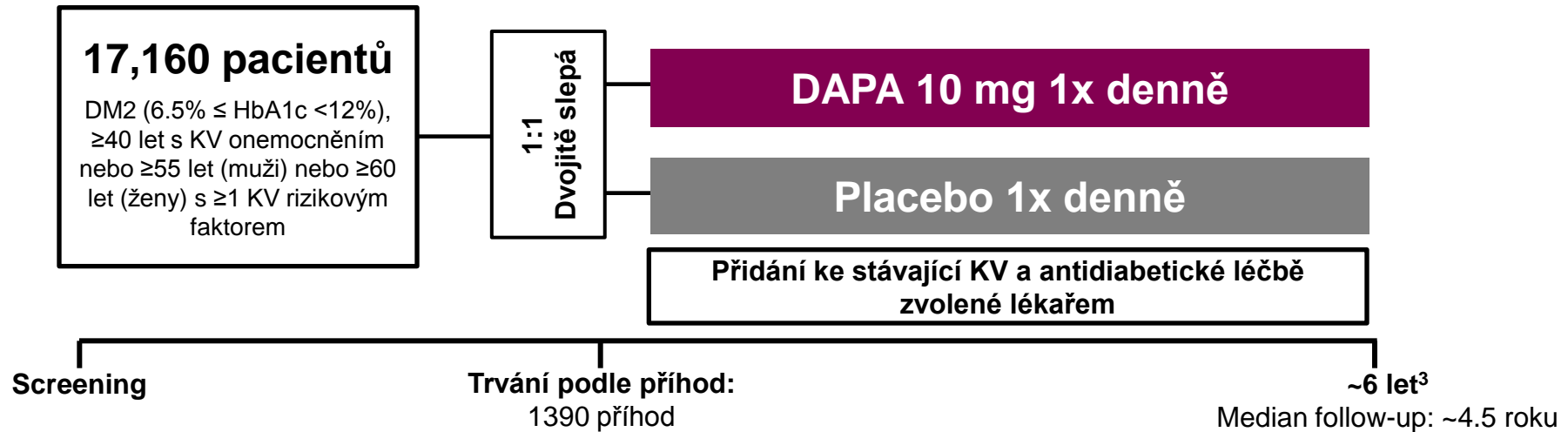
BACKGROUND

The cardiovascular safety profile of dapagliflozin, a selective inhibitor of sodium–glucose cotransporter 2 that promotes glucosuria in patients with type 2 diabetes, is undefined.



DECLARE-TIMI 58: Multicentrická randomizovaná dvojitě zaslepená placebem kontrolovaná kardiovaskulární studie fáze 3

Design studie^{1,2}



Primární parametry^{1,2}

- Složený parametr KV úmrtí, IM nebo CMP
- Složený parametr KV úmrtí nebo hospitalizace pro srdeční selhání

Sekundární parametr²

- Renální složený parametr
- Úmrtí ze všech příčin

Posouzení zaslepení⁴

- KV příhody
- Malignity
- Hepatální příhody
- Potenciální příhody DKA

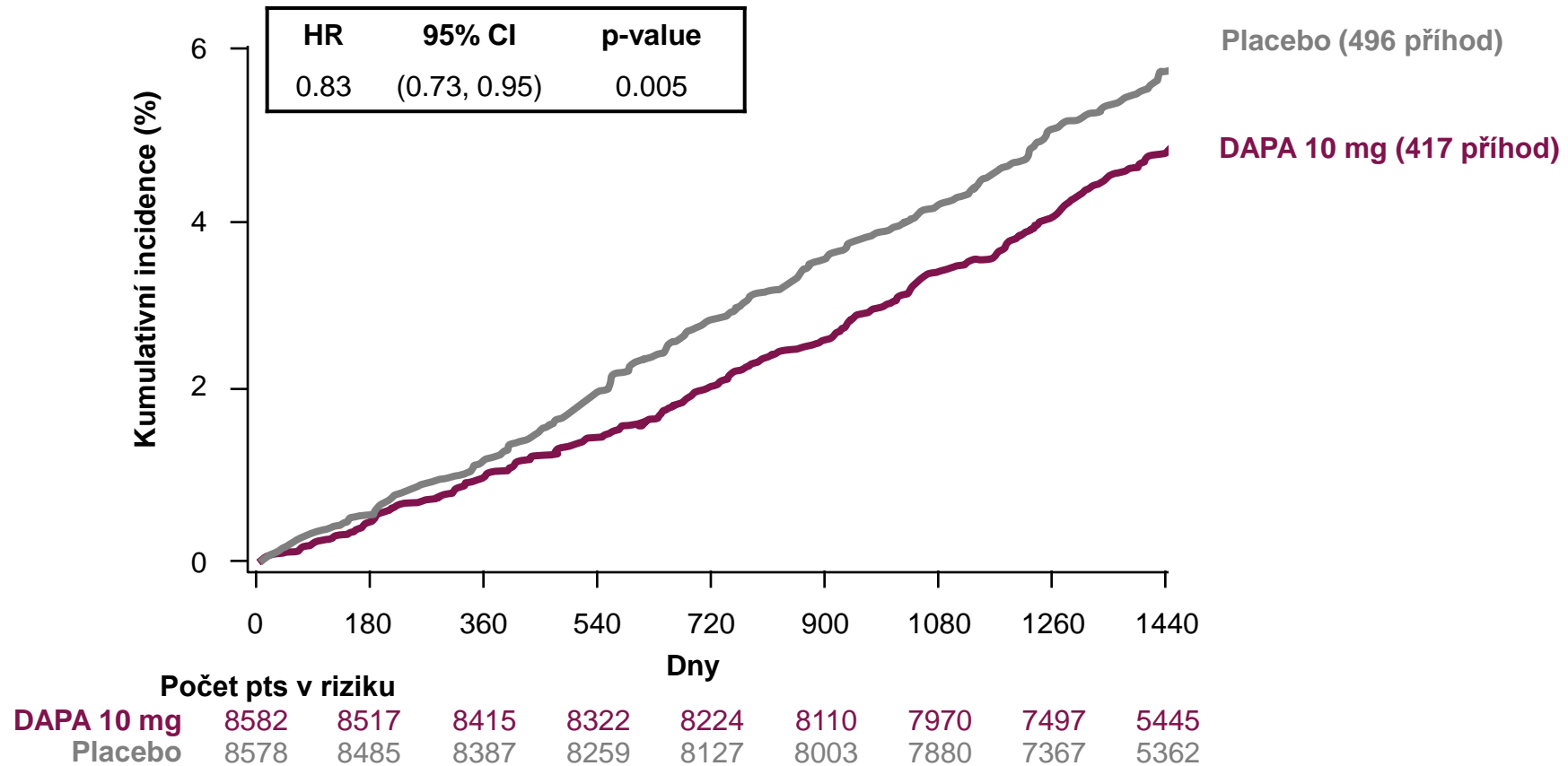
Komise pro monitorování dat⁴

- Periodické review bezpečnosti
- Dvě plánovaná review účinnosti
- Posouzení karcinomu močového měchýře každých 8 případů
8 events

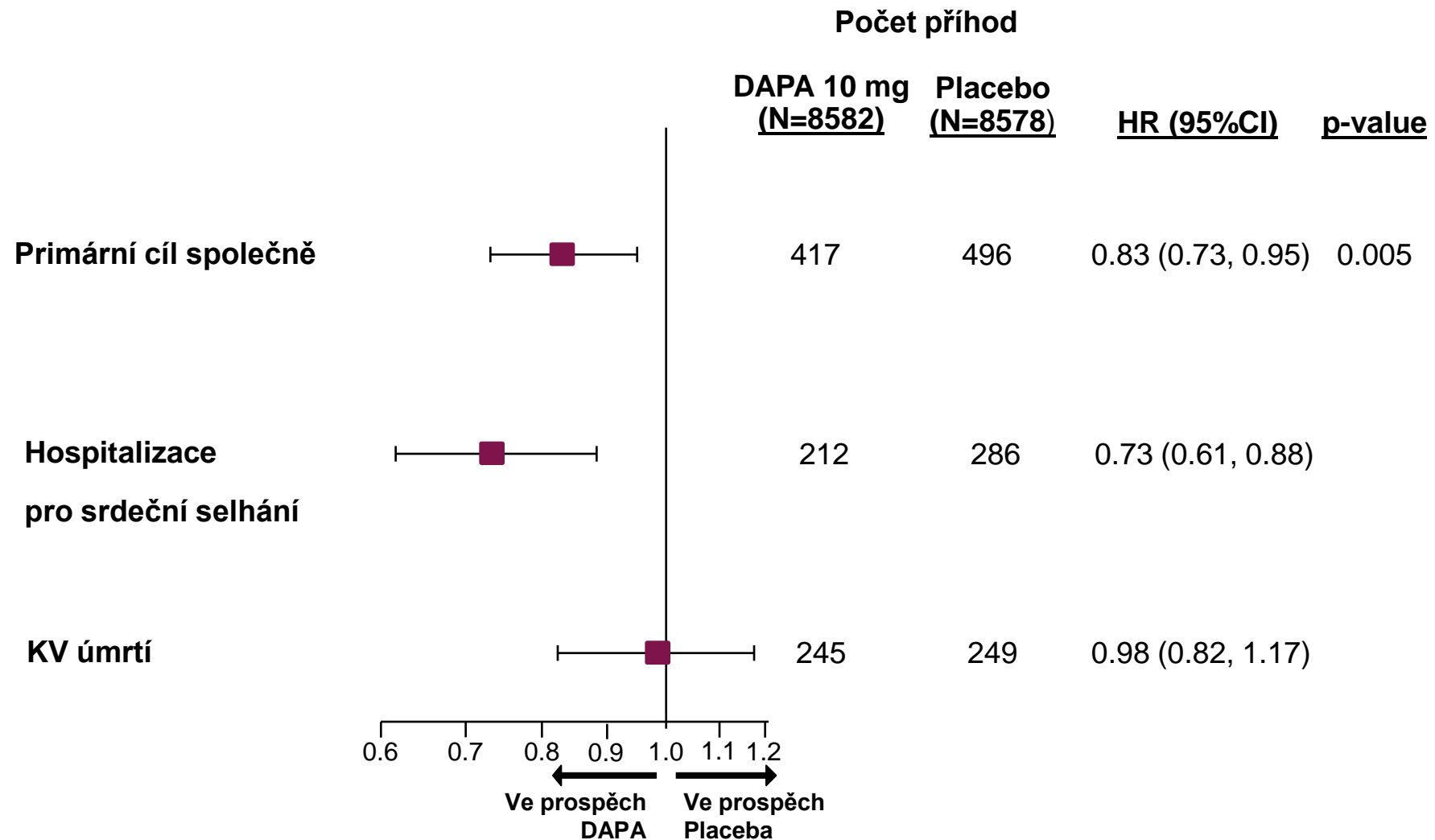
KV, kardiovaskulární; CMP, cévní mozková příhoda; DAPA, dapagliflozin; DKA, diabetická ketoacidóza; HbA1c, glykovaný hemoglobin; IM, infarkt myokardu; DM2, diabetes 2. typu.

1. Raz I et al. Poster presented at: 77th Scientific Sessions of the American Diabetes Association; June 9-13, 2017; San Diego, CA. Poster 1245-P; 2. Raz I et al. Poster presented at: 53rd Annual Meeting of the European Association for the Study of Diabetes; September 11-15, 2017; Lisbon, Portugal. Poster 1129; 3. Study NCT01730534. ClinicalTrials.gov website. Accessed December 13, 2017; 4. In House Data, AstraZeneca Pharmaceuticals LP. CSP D1693C00001; 5. AstraZeneca Pharmaceuticals LP. H1 2017 results. Published July 27, 2017. 2. Raz I et al. Article doi: 10.1111/dom.13217

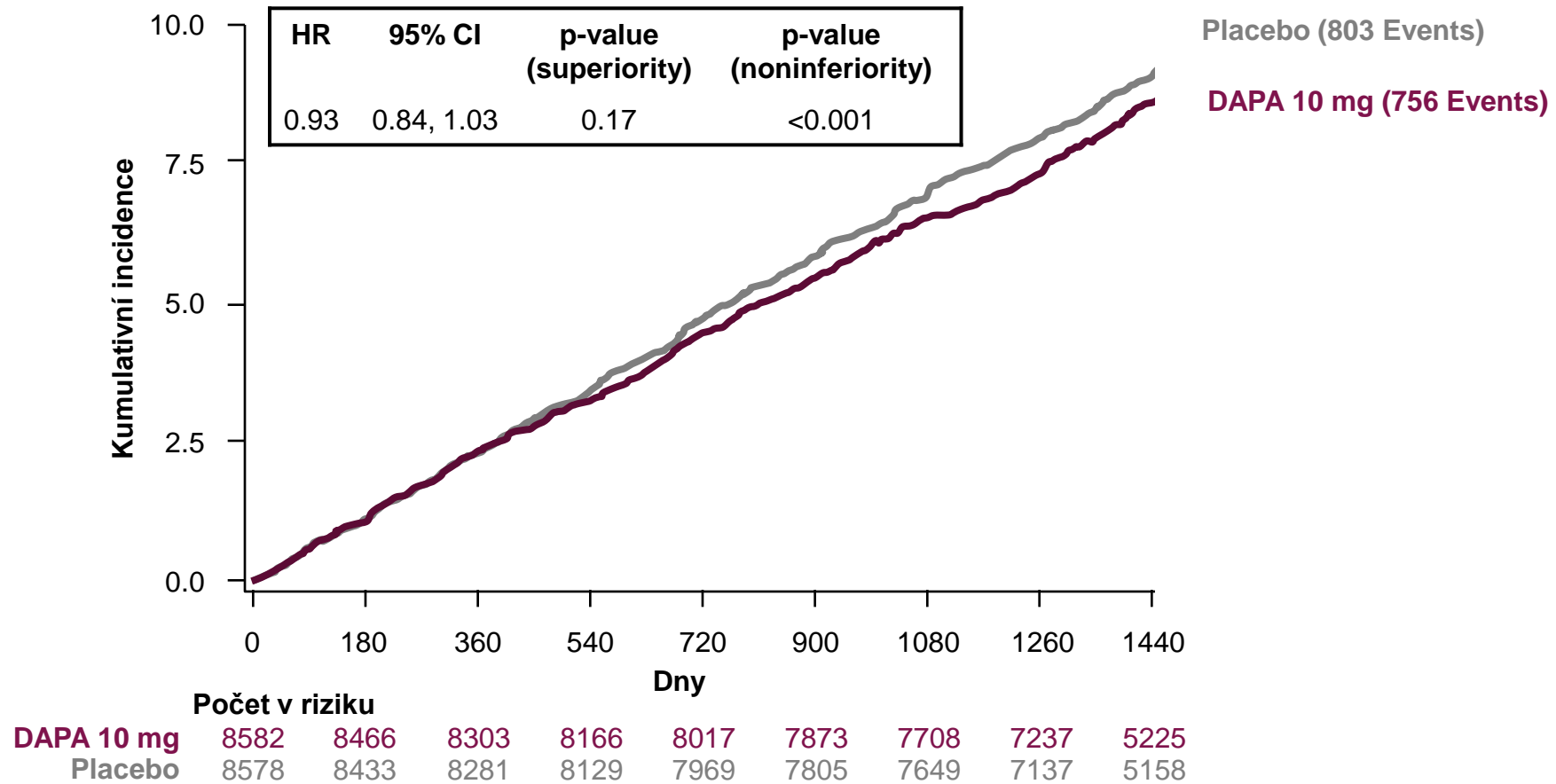
Primární cíl: hospitalizace pro srdeční selhání a KV úmrtí



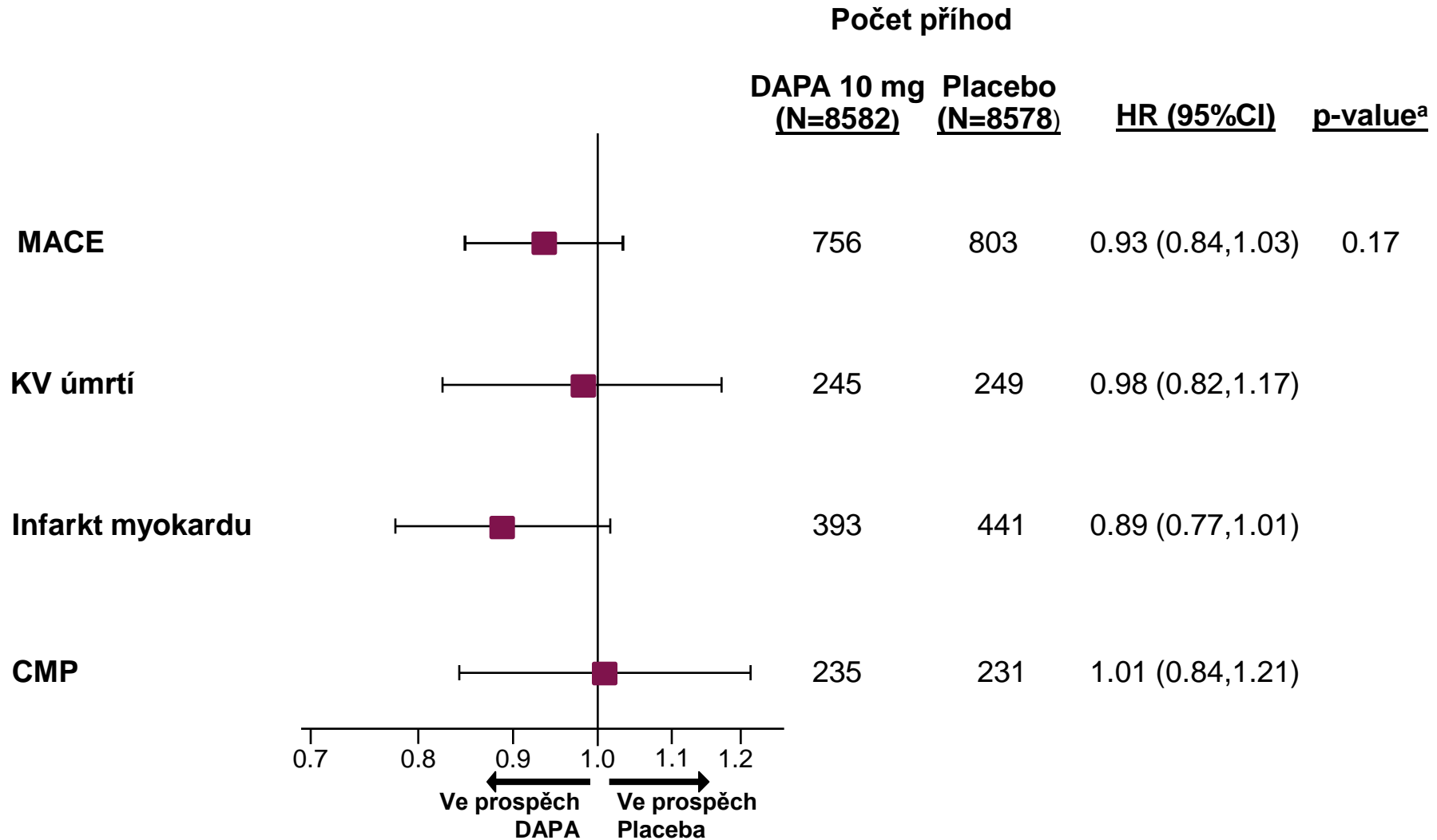
Primární cíl: Hospitalizace pro srdeční selhání a KV úmrtí a jednotlivé komponenty



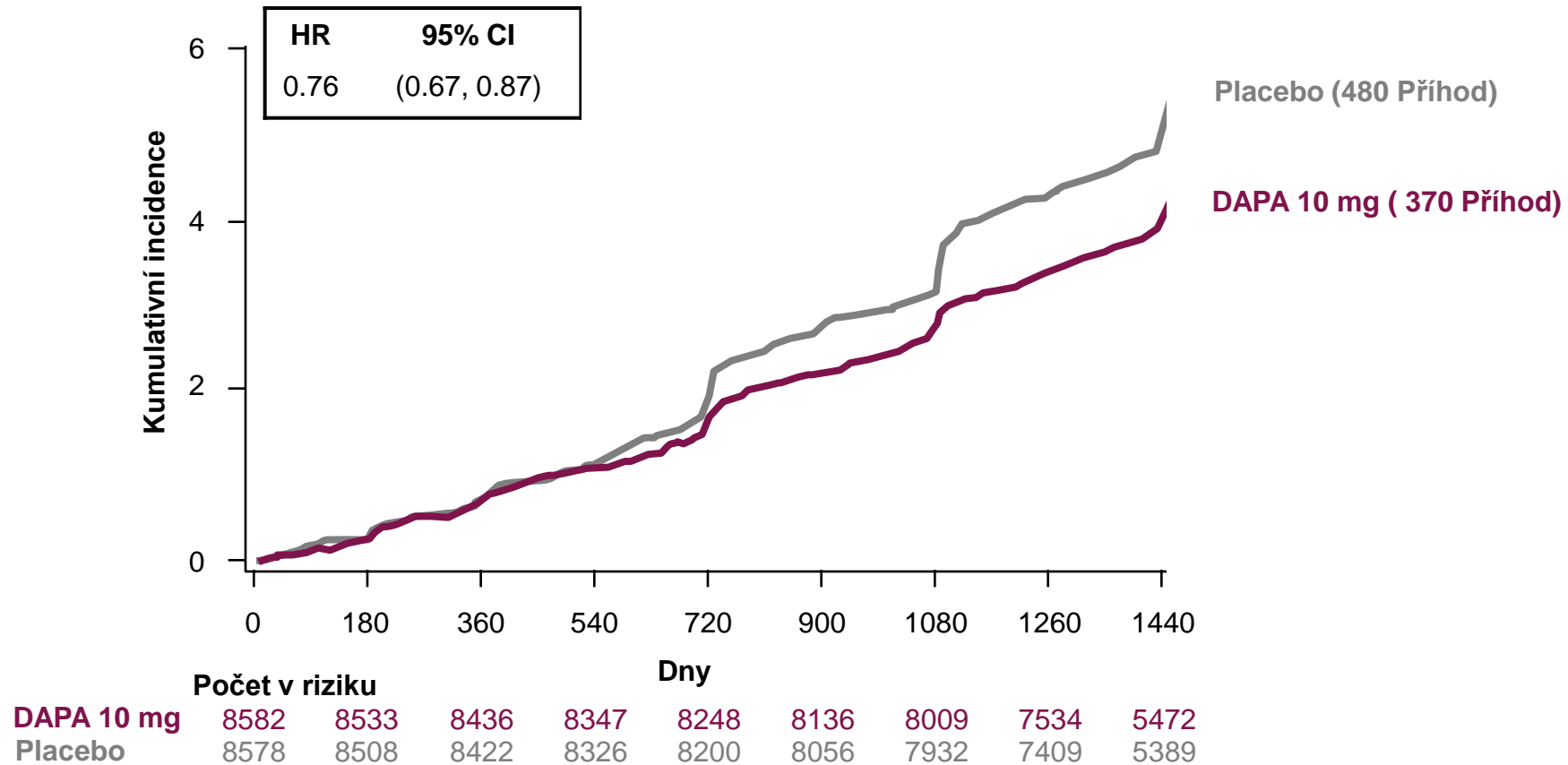
Primární cíl: MACE



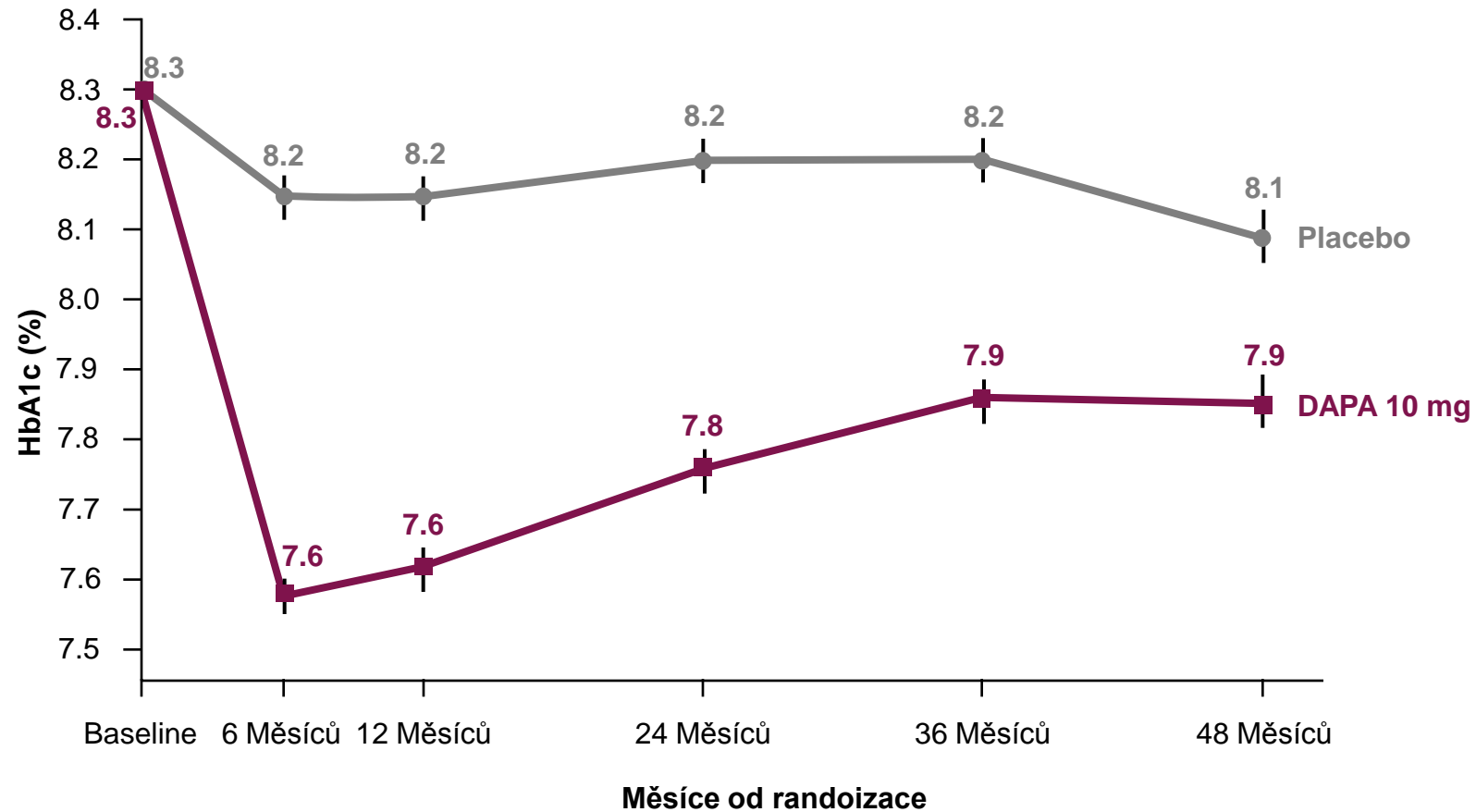
Primární cíl: Složený MACE a jednotlivé cíle



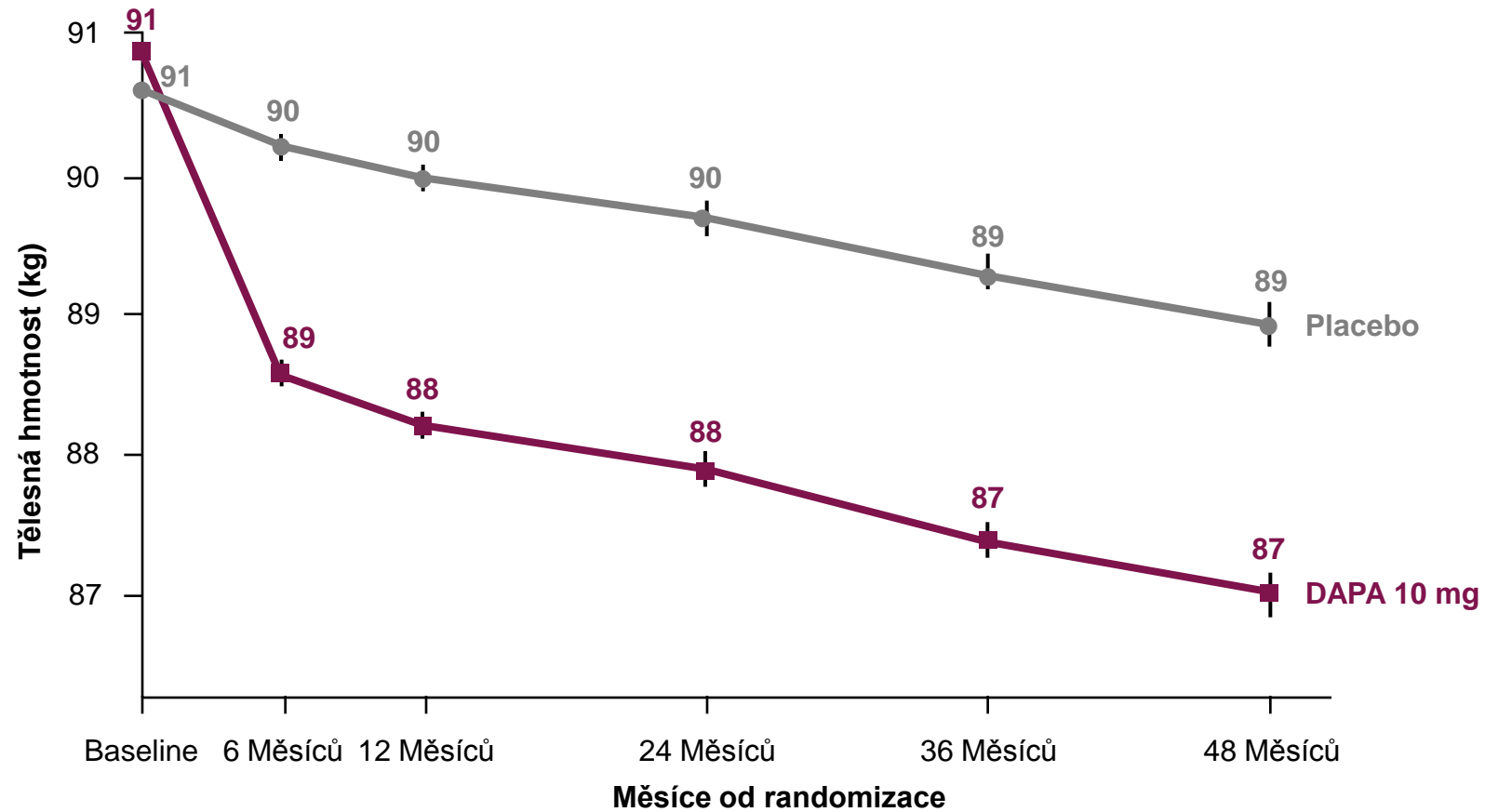
Sekundární cíl: Renální kompozitní cíl



Pokles glykovaného hemoglobinu

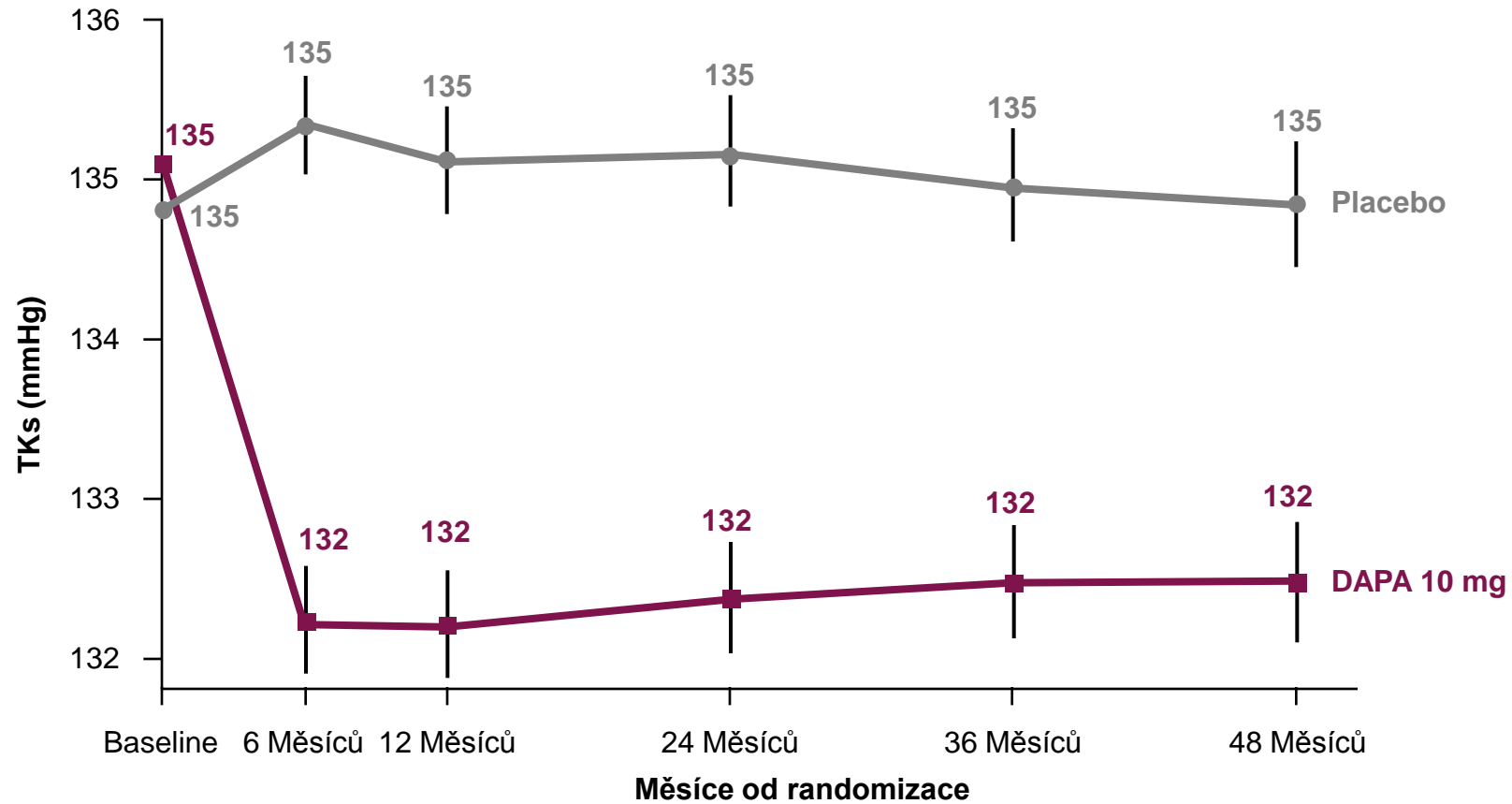


Pokles hmotnosti

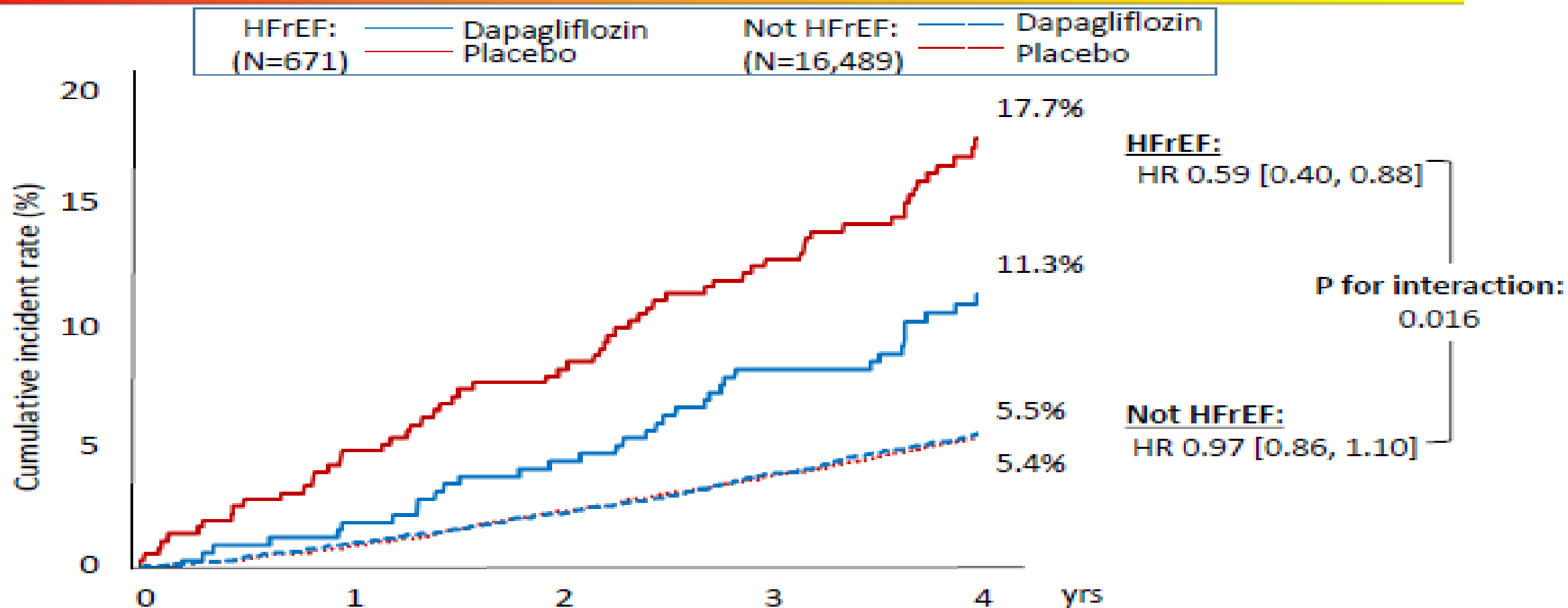




Pokles systolického krevního tlaku

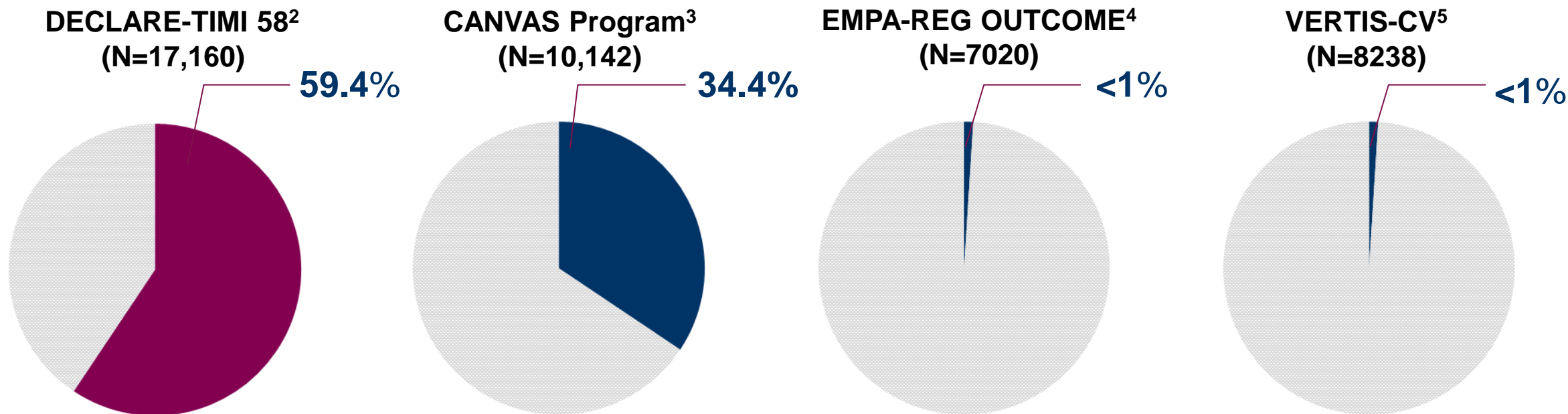


All Cause Mortality by HFrEF vs not HFrEF subgroups



DECLARE měl největší počet nemocných v primární prevenci

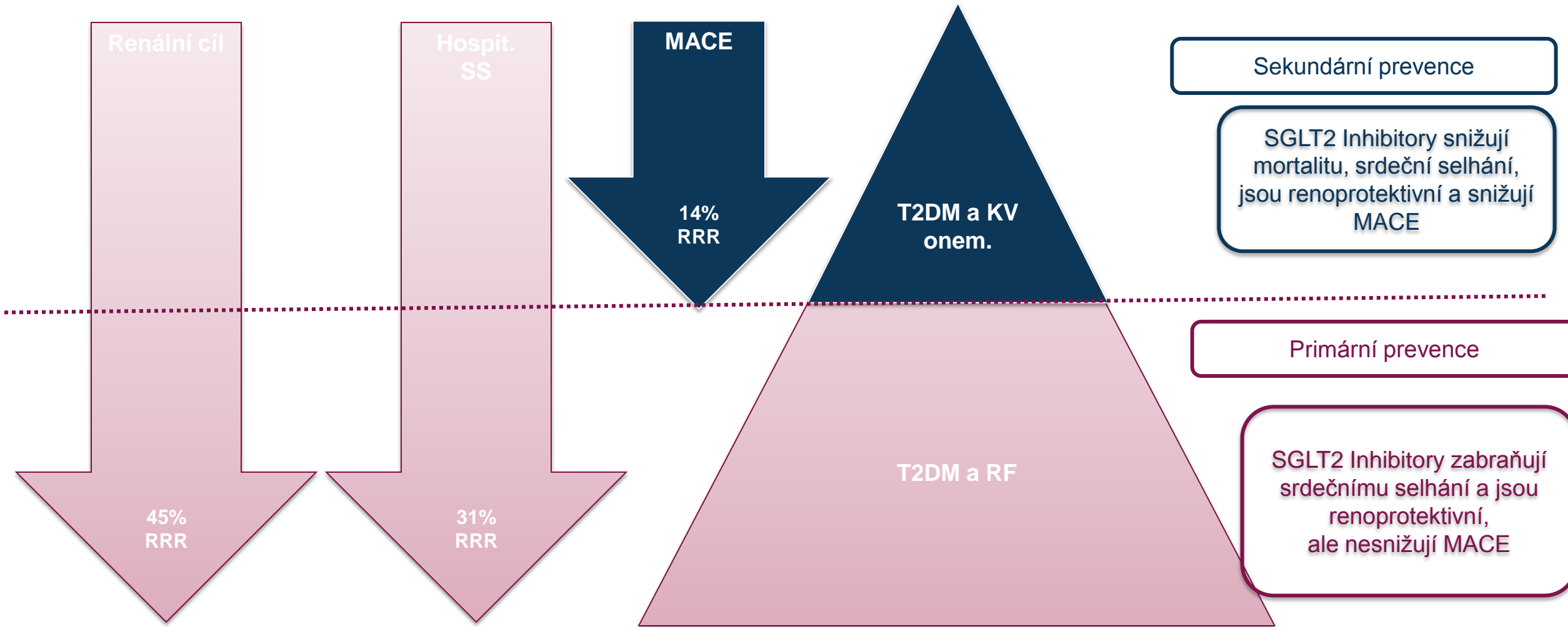
U pacientů s DM 2. typu většina nemá potvrzené KV onemocnění¹



CV, cardiovascular; eCVD, established CV disease; SGLT2i, sodium glucose co-transporter 2 inhibitor; T2D, type 2 diabetes

1. Einarson TR, et al. *Cardiovasc Diabetol* 2018;17:83; 2. Raz I, et al. *Diabetes Obes Metab* 2018;20:1102-1110; 3. Neal B, et al. *N Engl J Med* 2017;377:644-657; 4. Zinman B, et al. *N Engl J Med* 2015;373:2117-2128; 5. Cannon CP et al. Poster presented at: American College of Cardiology 67th Annual Scientific Session; March 10-12, 2018; Orlando, FL; *J Am Coll Cardiol*. 2018;71:A1825.

Kardiorenální prospěch SGLT2



^aComposite of worsening eGFR, end-stage renal disease, or renal death.

ASCVD, atherosclerotic cardiovascular disease; eGFR, estimated glomerular filtration rate; hHF, hospitalization for heart failure; MACE, major cardiovascular adverse event; RRR, relative risk reduction; SGLT2, sodium-glucose cotransporter 2; T2D, type 2 diabetes.

Zelniker TA et al. *Lancet*. 2019;393:31-39; Verma S et al. *Lancet*. 2019; 393:3-5.

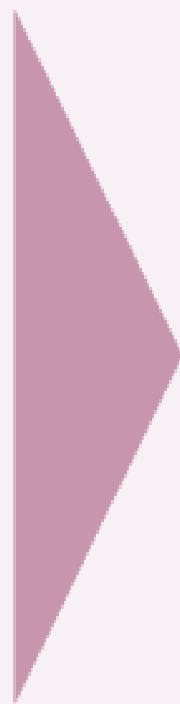
2019 ACC/AHA Guideline on the Primary Prevention of Cardiovascular Disease

Recommendations for Adults With Type 2 Diabetes Mellitus		
Referenced studies that support recommendations are summarized in Online Data Supplement 10 .		
COR	LOE	Recommendations
I	A	1. For all adults with T2DM, a tailored nutrition plan focusing on a heart-healthy dietary pattern is recommended to improve glycemic control, achieve weight loss if needed, and improve other ASCVD risk factors (S4.2-1, S4.2-2).
I	A	2. Adults with T2DM should perform at least 150 minutes per week of moderate-intensity physical activity or 75 minutes of vigorous-intensity physical activity to improve glycemic control, achieve weight loss if needed, and improve other ASCVD risk factors (S4.2-3, S4.2-4).
IIa	B-R	3. For adults with T2DM, it is reasonable to initiate metformin as first-line therapy along with lifestyle therapies at the time of diagnosis to improve glycemic control and reduce ASCVD risk (S4.2-5–S4.2-8).
IIb	B-R	4. For adults with T2DM and additional ASCVD risk factors who require glucose-lowering therapy despite initial lifestyle modifications and metformin, it may be reasonable to initiate a <u>sodium-glucose cotransporter 2 (SGLT-2) inhibitor</u> or a glucagon-like peptide-1 receptor (GLP-1R) agonist to improve glycemic control and reduce CVD risk (S4.2-9–S4.2-14).

SGLT2 inhibitory posun v indikacích

současnost

SGLT2 inhibitory
prospěšné v prevenci SS
u nemocných s DM



budoucnost?

SGLT2 inhibitor
prospěšné v léčbě SS
u nemocných bez DM

Děkuji za pozornost

