

Tratamiento de la DM2 en Prevención Secundaria

DM 2 en P 2^a

Posicionamiento



Sección de
Riesgo Vascular y
Rehabilitación Cardíaca

Grupo de
Trabajo de Diabetes

DM2

Control multifactorial

P2^a

IMC < 25

Stop
tabaco

Ejercicio
físico

Dieta
mediterránea

TA
< 140/85
< 130/80*

A1C
< 7%
< 6,5%**

LDL
< 70
< 55 ***

* Especialmente en DM1 o jóvenes con DM2 o con albuminuria o retinopatía

** Sin riesgo hipoglucemias

*** Riesgo extremo

DYSLIPIDEMIA

HYPERTENSION

LIFESTYLE THERAPY (Including Medically Assisted Weight Loss)

LIPID PANEL: Assess ASCVD Risk

STATIN THERAPY

If TG > 500 mg/dL, fibrates, Rx-grade omega-3 fatty acids, niacin

If statin-intolerant

Try alternate statin, lower statin dose or frequency, or add nonstatin LDL-C-lowering therapies

Repeat lipid panel; assess adequacy, tolerance of therapy

Intensify therapies to attain goals according to risk levels

RISK LEVELS	HIGH	VERY HIGH	EXTREME	RISK LEVELS:
	DESIRABLE LEVELS	DESIRABLE LEVELS	DESIRABLE LEVELS	
LDL-C (mg/dL)	<100	<70	<55	<p>HIGH: DM but no other major risk and/or age <40</p> <p>VERY HIGH: DM + major ASCVD risk(s) (HTN, Fam Hx, low HDL-C, smoking, CKD3,4)*</p> <p>EXTREME: DM plus established clinical CVD</p>
Non-HDL-C (mg/dL)	<130	<100	<80	
TG (mg/dL)	<150	<150	<150	
Apo B (mg/dL)	<90	<80	<70	

If not at desirable levels: Intensify lifestyle therapy (weight loss, physical activity, dietary changes) and glycemic control; consider additional therapy

To lower LDL-C: Intensify statin, add ezetimibe, PCSK9i, colesovelam, or niacin
To lower Non-HDL-C, TG: Intensify statin and/or add Rx-grade OM3 fatty acid, fibrate, and/or niacin
To lower Apo B, LDL-P: Intensify statin and/or add ezetimibe, PCSK9i, colesovelam, and/or niacin
To lower LDL-C in FH:** Statin + PCSK9i

Assess adequacy & tolerance of therapy with focused laboratory evaluations and patient follow-up

GOAL: SYSTOLIC <130, DIASTOLIC <80 mm Hg

ACEi or ARB

For initial blood pressure >150/100 mm Hg:
DUAL THERAPY

ACEi or ARB	+	Calcium Channel Blocker ✓
		β-blocker ✓
		Thiazide ✓



If not at goal (2-3 months)

Add calcium channel blocker, β-blocker or thiazide diuretic

If not at goal (2-3 months)

Add next agent from the above group, repeat

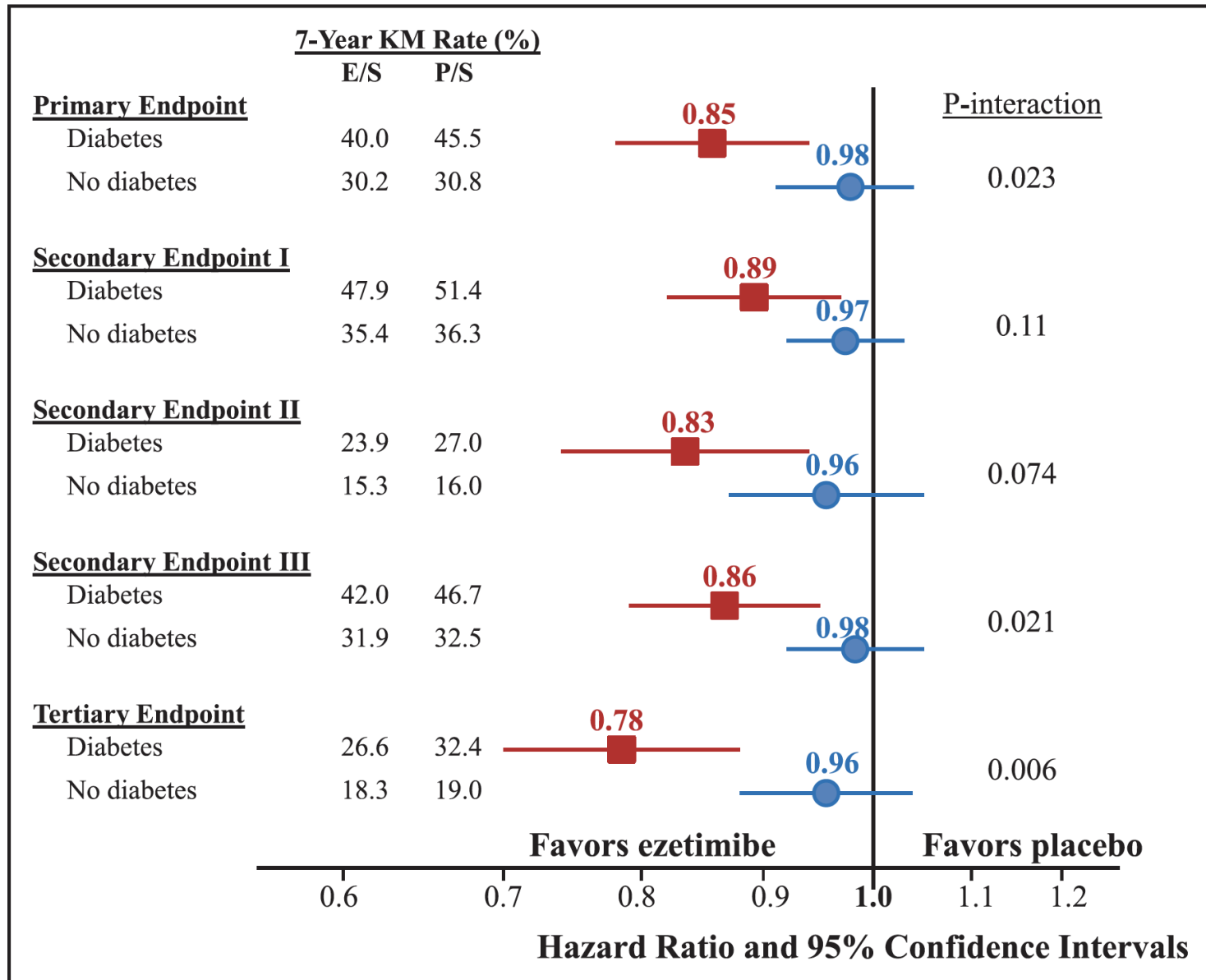
If not at goal (2-3 months)

Additional choices (α-blockers, central agents, vasodilators, aldosterone antagonist)

Achievement of target blood pressure is critical

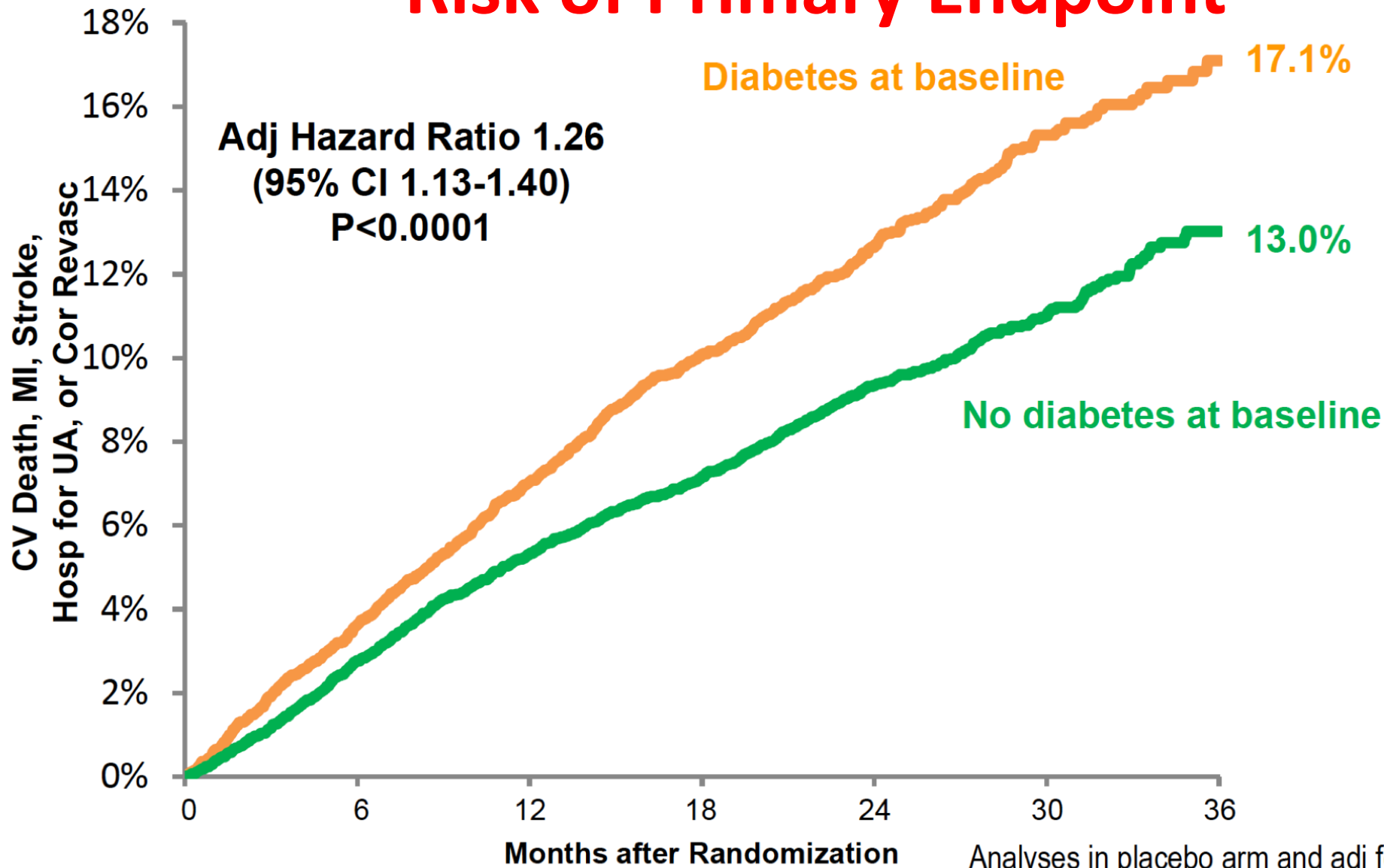
* EVEN MORE INTENSIVE THERAPY MIGHT BE WARRANTED ** FAMILIAL HYPERCHOLESTEROLEMIA

Mayor beneficio en DM2



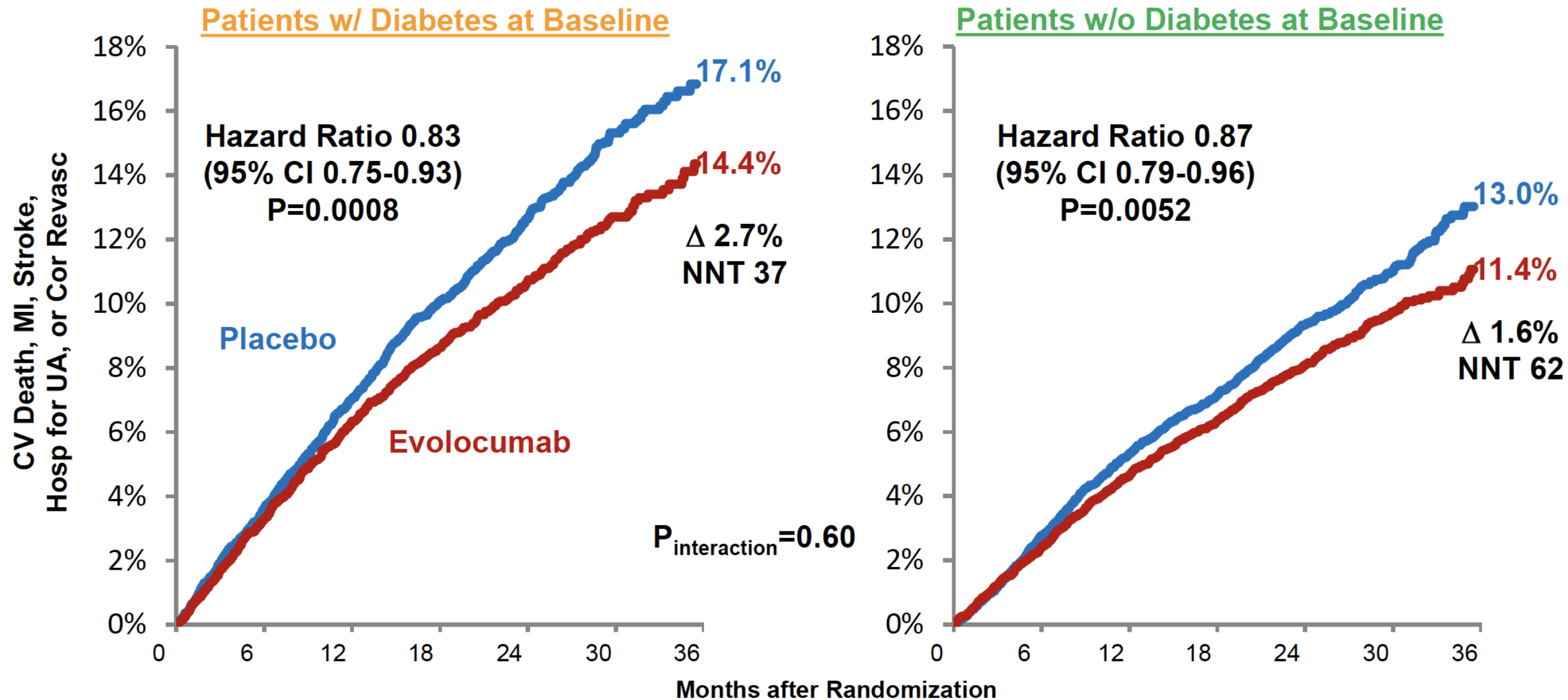
Reducción 14% End point 1º
Reducción 21% IAM
Reducción 42% ICTUS

Risk of Primary Endpoint

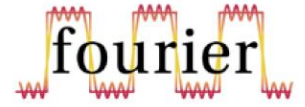


Analyses in placebo arm and adj for age, sex, BMI, race, region, history of MI, stroke, PAD, HTN, smoking, HF, eGFR, lipids, statin.

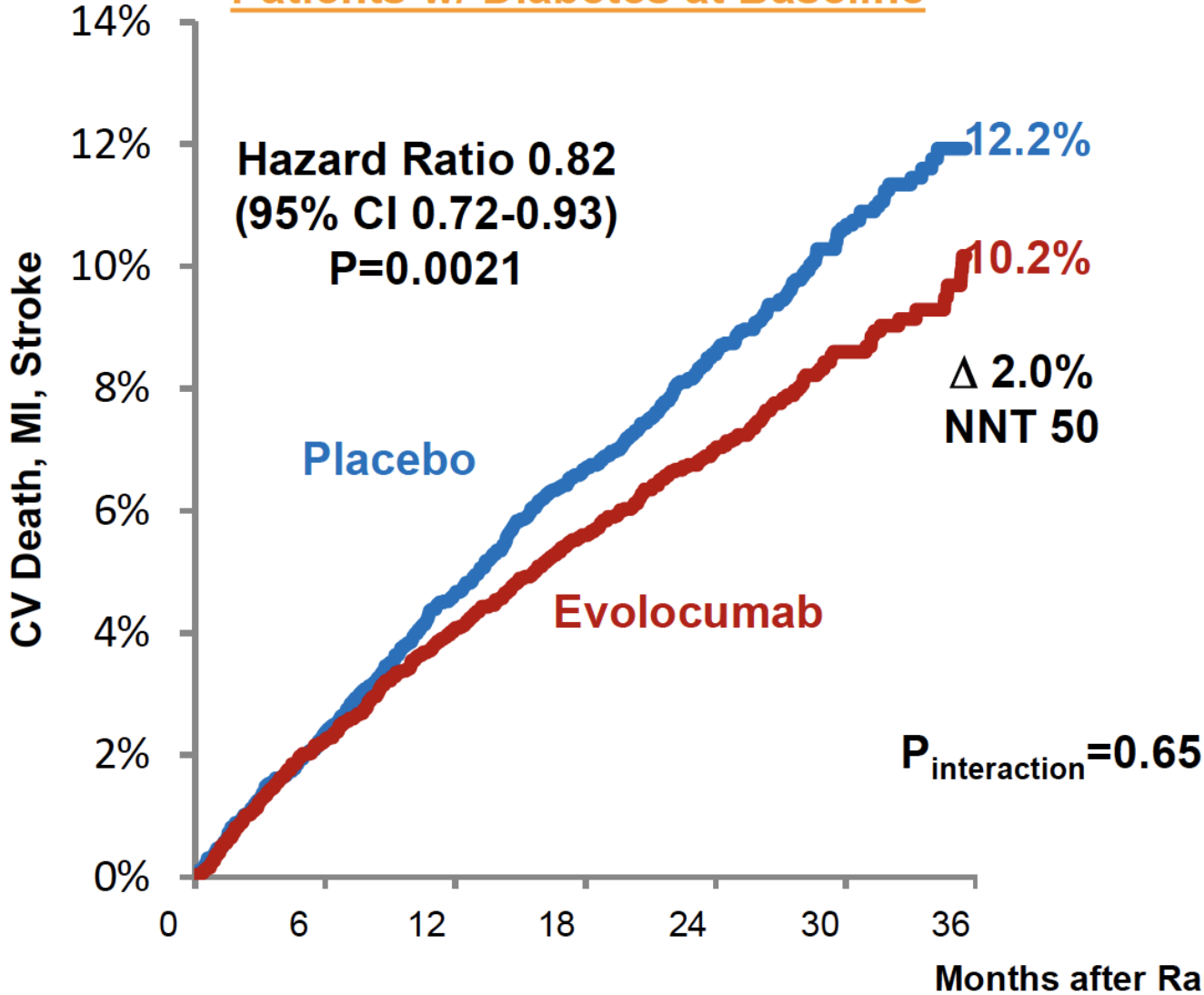
Primary Endpoint



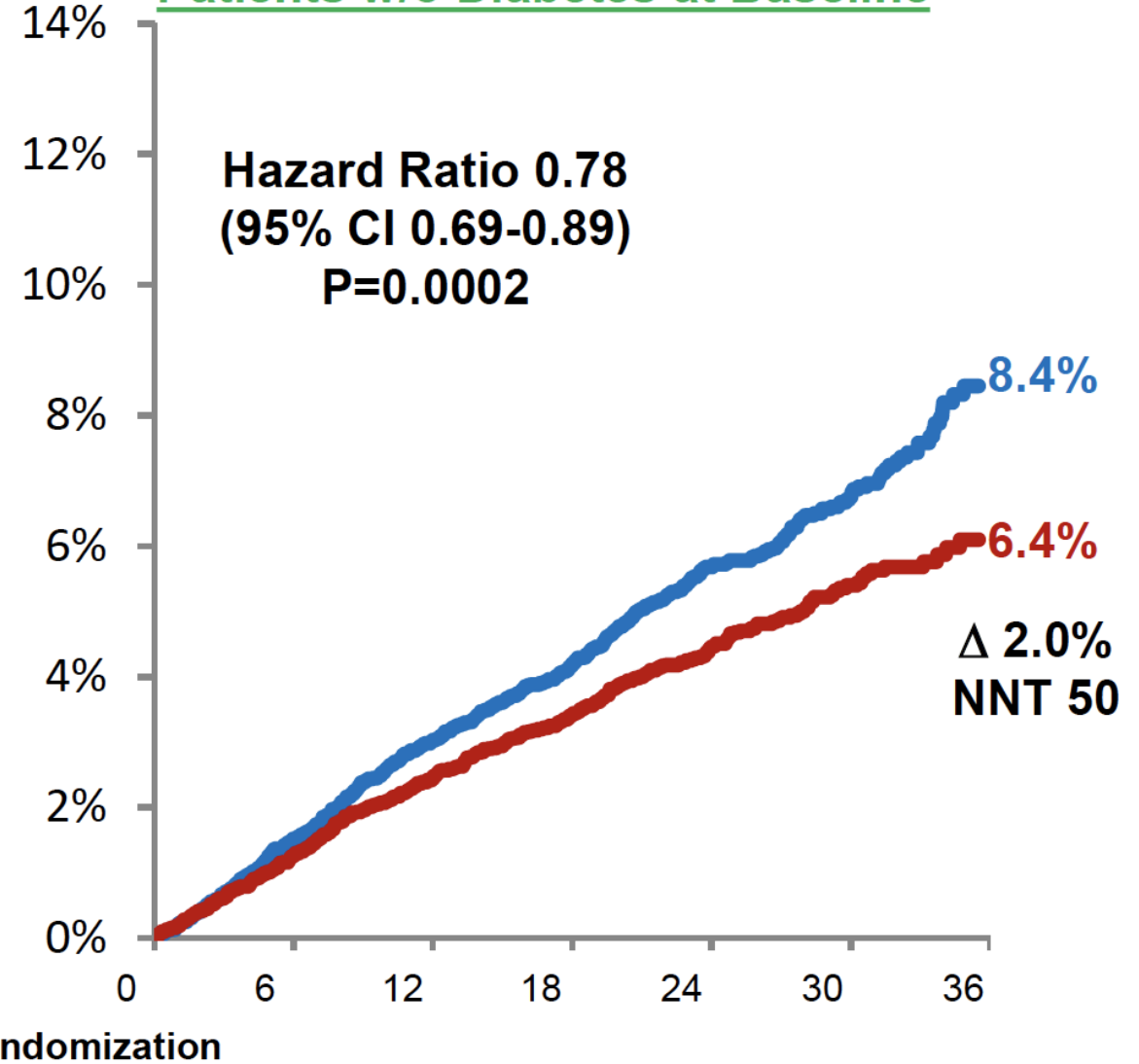
Secondary Endpoint



Patients w/ Diabetes at Baseline



Patients w/o Diabetes at Baseline



2016 European Guidelines on cardiovascular disease prevention in clinical practice

The Sixth Joint Task Force of the European Society of Cardiology and Other Societies on Cardiovascular Disease Prevention in Clinical Practice (constituted by representatives of 10 societies and by invited experts)

BP targets in type 2 DM are generally recommended to be <140/85 mmHg, but a lower target of <130/80 mmHg is recommended in selected patients (e.g. younger patients at elevated risk for specific complications) for additional gains on stroke, retinopathy and albuminuria risk. Renin-angiotensin-aldosterone system blocker is recommended in the treatment of hypertension in DM, particularly in the presence of proteinuria or micro- albuminuria. Recommended BP target in patients with type 1 DM is <130/80 mmHg.

I

B

2017 ACC/AHA/AAPA/ABC/ACPM/AGS/APhA/ASH/ASPC/NMA/PCNA Guideline for the Prevention, Detection, Evaluation, and Management of High Blood Pressure in Adults
 A Report of the American College of Cardiology/American Heart Association Task Force on Clinical Practice Guidelines

Paul K. Whelton, Robert M. Carey, Wilbert S. Aronow, Donald E. Casey Jr., Karen J. Collins, Cheryl Dennison Himmelfarb, Sondra M. DePalma, Samuel Gidding, Kenneth A. Jamerson, Daniel W. Jones, Eric J. MacLaughlin, Paul Muntner, Bruce Ovbiagele, Sidney C. Smith Jr., Crystal C. Spencer, Randall S. Stafford, Sandra J. Taler, Randal J. Thomas, Kim A. Williams Sr., Jeff D. Williamson and Jackson T. Wright Jr.

Recommendations for Treatment of Hypertension in Patients With DM

References that support recommendations are summarized in Online Data Supplements 46 and 47 and Systematic Review Report.

COR	LOE	Recommendations
I	SBP: B-R ^{SR}	1. In adults with DM and hypertension, antihypertensive drug treatment should be initiated at a BP of 130/80 mm Hg or higher with a treatment goal of less than 130/80 mm Hg (1-8).
	DBP: C-EO	
I	A ^{SR}	2. In adults with DM and hypertension, all first-line classes of antihypertensive agents (i.e., diuretics, ACE inhibitors, ARBs, and CCBs) are useful and effective (1, 9, 10).
IIb	B-NR	3. In adults with DM and hypertension, ACE inhibitors or ARBs may be considered in the presence of albuminuria (11, 12).

A1C: Lo más baja posible SIN hipoglucemias

GOALS FOR GLYCEMIC CONTROL

INDIVIDUALIZE GOALS

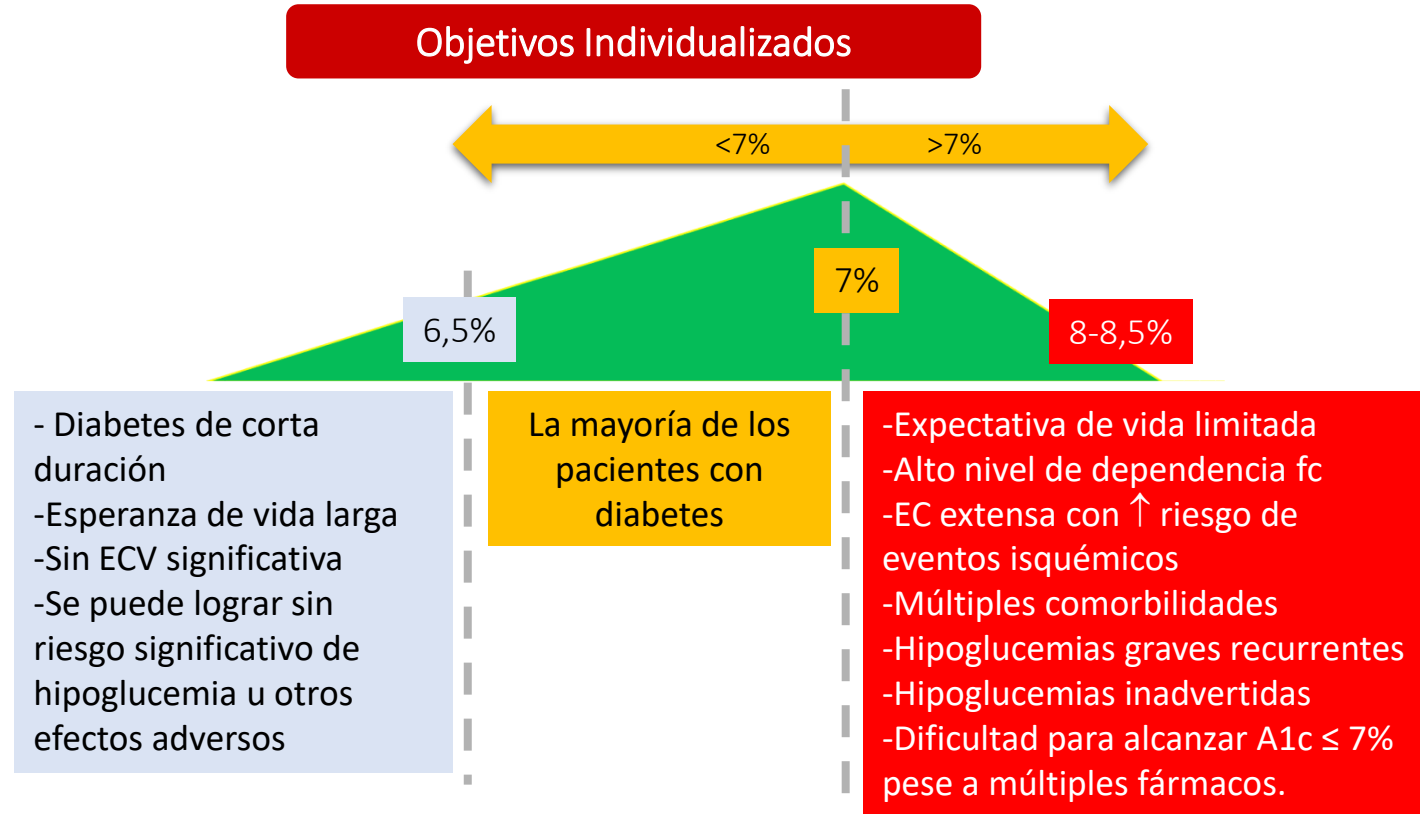
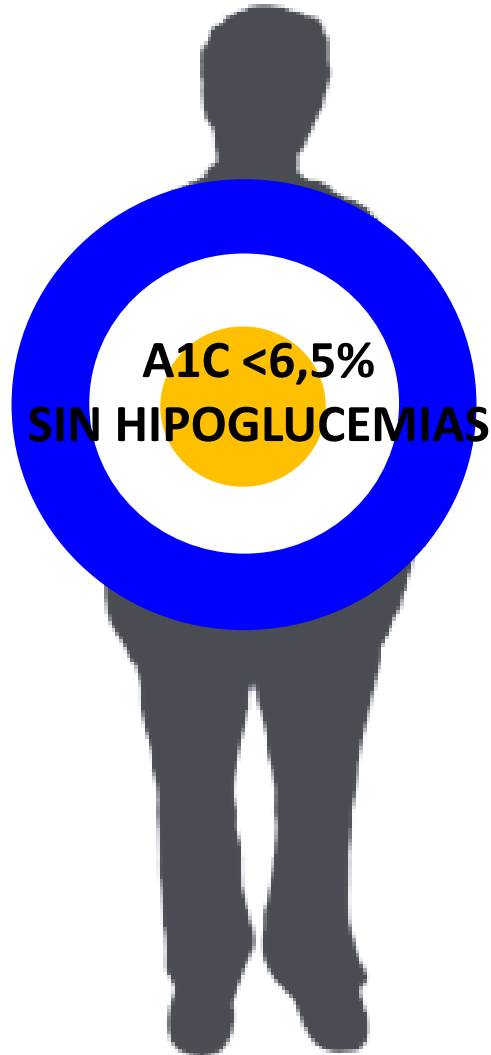
A1C ≤ 6.5%
For patients without concurrent serious illness and at low hypoglycemic risk

A1C > 6.5%
For patients with concurrent serious illness and at risk for hypoglycemia

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Objetivos del tratamiento en la DM2

ADA/EASD 2017, AACE 2017
Tras estudios de seguridad CV



Toma de las decisiones conjuntamente con el paciente



¿ Por qué no nos fijamos en la A1C en primer escalón ?



N Engl J Med 2015; 373:2117-2128

N Engl J Med 2016; 375:311-322

N Engl J Med 2016;375:1834-44.

N Engl J Med 2017; 377:644-657

Subgrupos según A1C

P interacción



N Engl J Med 2015; 373:2117-2128

<8,5% - ≥8,5%

(activo placebo)

0.01 (1º)

0.51 (muerte)

LEADER®

Liraglutide Effect and Action in Diabetes:
Evaluation of cardiovascular outcome Results

N Engl J Med 2016; 375:311-322

<8,3% - ≥8,3%

0.58 (1º)

SUSTAIN

SEMAGLUTIDE UNABATED SUSTAINABILITY
IN TREATMENT OF TYPE 2 DIABETES

N Engl J Med 2016;375:1834-44.

<8,5% - ≥8,5%

0.94 (1º)



CANVAS Program

N Engl J Med 2017; 377:644-657

<8,0% - ≥8,0%

0.29 (1º)

Beneficio independiente de A1C

Beneficio independiente de los fármacos asociados



Table S7. Hazard ratios for the primary outcome in subgroups.

	Patients with event/ patients analyzed		Hazard ratio	(95% CI)	p-value for interaction
	Empagliflozin	Placebo			
Metformin					0.14
No	146/1228	93/599	0.72	(0.56, 0.94)	
Yes	344/3459	189/1734	0.92	(0.77, 1.10)	

Table S8. Hazard ratios for cardiovascular death in subgroups.

	Patients with event/ patients analyzed		Hazard ratio	(95% CI)	p-value for interaction
	Empagliflozin	Placebo			
All patients	172/4687	137/2333	0.62	(0.49, 0.77)	
Metformin					0.07
No	54/1228	53/599	0.46	(0.32, 0.68)	
Yes	118/3459	84/1734	0.71	(0.54, 0.94)	

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Liraglutide Effect and Action in Diabetes:
Evaluation of cardiovascular outcome Results

Beneficio independiente de los fármacos asociados

Subgroup	No. of Patients	Liraglutide <i>no. of events/no. of patients (%)</i>	Placebo <i>no. of events/no. of patients (%)</i>	Hazard Ratio (95% CI)	P Value for Interaction
Antidiabetic therapy					0.73
1 Oral antidiabetic agent	1818	99/922 (10.7)	125/896 (14.0)	0.75 (0.58–0.98)	
>1 Oral antidiabetic agent	2997	191/1515 (12.6)	196/1482 (13.2)	0.95 (0.78–1.16)	
Insulin with oral antidiabetic agent	3422	223/1674 (13.3)	259/1748 (14.8)	0.89 (0.74–1.06)	
Insulin without oral antidiabetic agent	737	71/361 (19.7)	86/376 (22.9)	0.86 (0.63–1.17)	
None	366	24/196 (12.2)	28/170 (16.5)	0.73 (0.42–1.25)	

DM²

Control multifactorial

p^{2ª}

1º: Elección en función del beneficio cardiovascular

FG > 60

MET + iSGLT2 o arGLP1
Empagliflozina Liraglutida
Canagliflozina

FG 60-45

MET + arGLP1 o iSGLT2*
Liraglutida Empagliflozina
Canagliflozina

FG 45-30

MET** + arGLP1
Liraglutida

FG 30-15

arGLP1
Liraglutida

* No iniciar. Sí mantener: Empa 10 mg o Cana 100 mg

** No iniciar MET. Sí mantener.

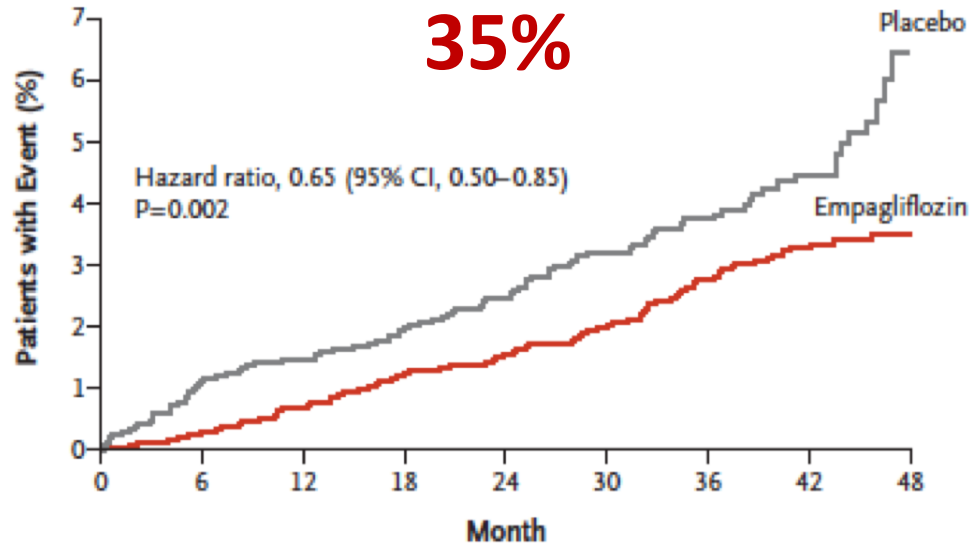


**EMPA-REG
OUTCOME®**



CANVAS Program

D Hospitalization for Heart Failure

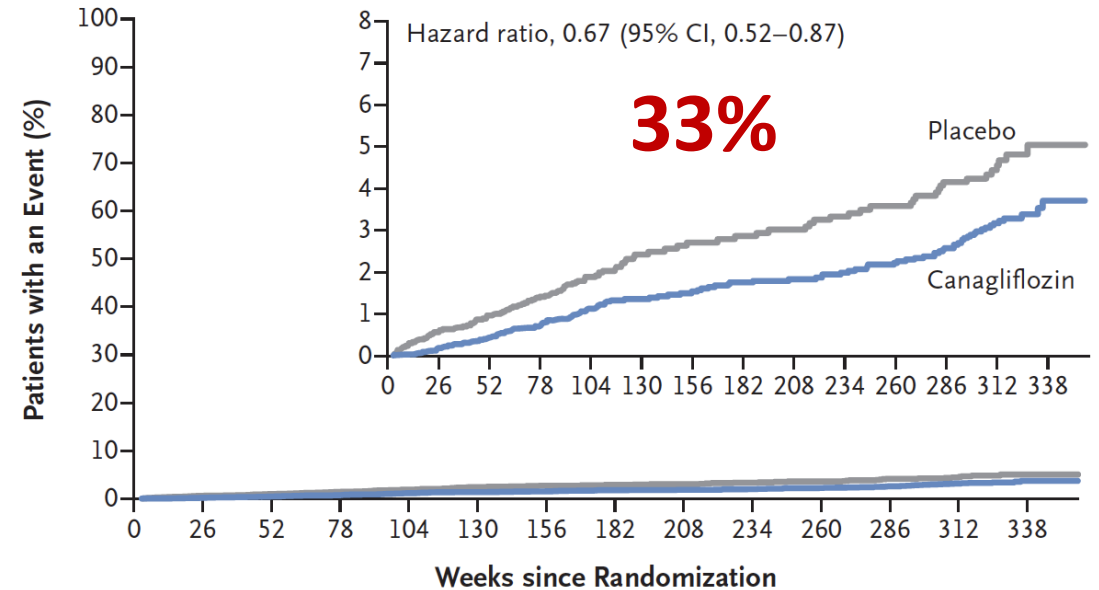


No. at Risk

Empagliflozin	4687	4614	4523	4427	3988	2950	2487	1634	395
Placebo	2333	2271	2226	2173	1932	1424	1202	775	168

N Engl J Med 2015; 373:2117-2128

A Hospitalization for Heart Failure

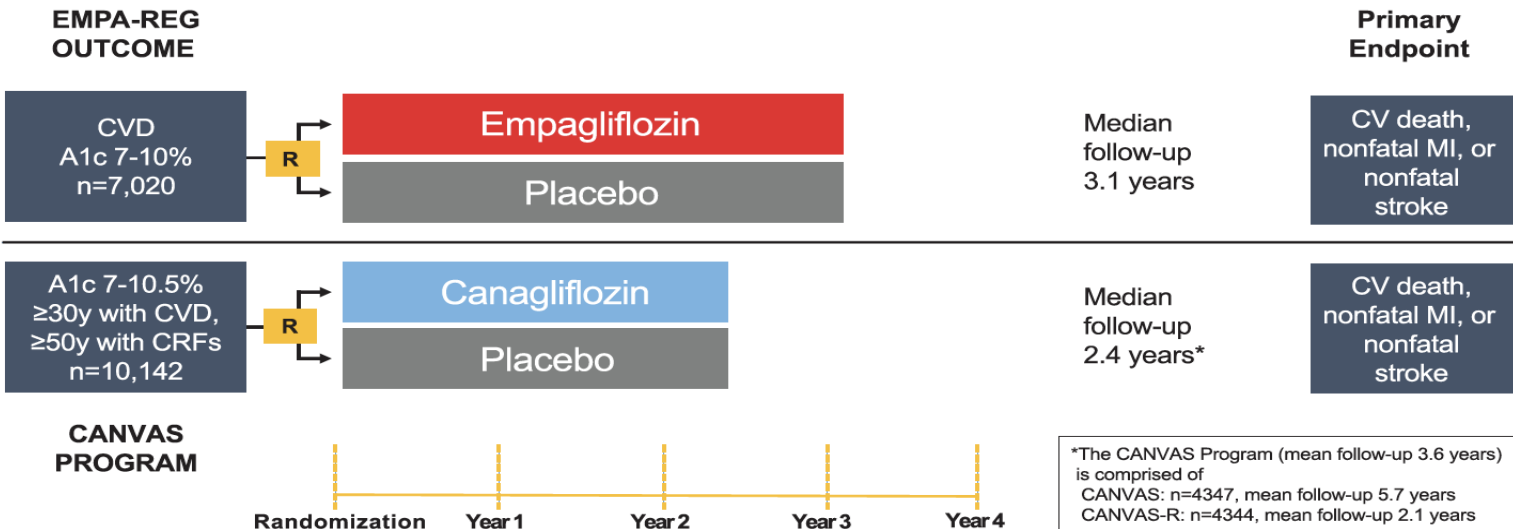


No. at Risk

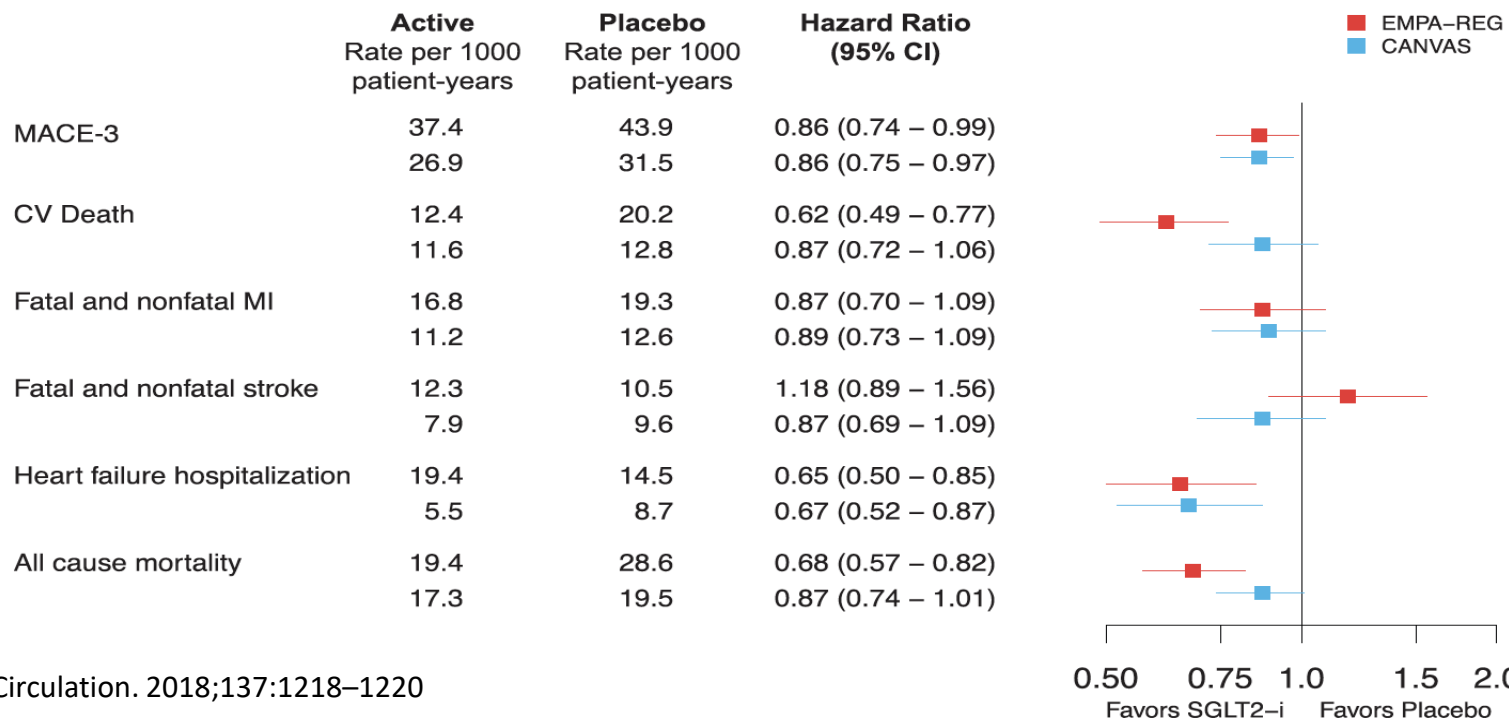
Placebo	4347	4267	4198	4123	3011	1667	1274	1256	1236	1210	1180	1158	829	233
Canagliflozin	5795	5732	5653	5564	4437	3059	2643	2610	2572	2540	2498	2451	1782	490

N Engl J Med 2017; 377:644-657

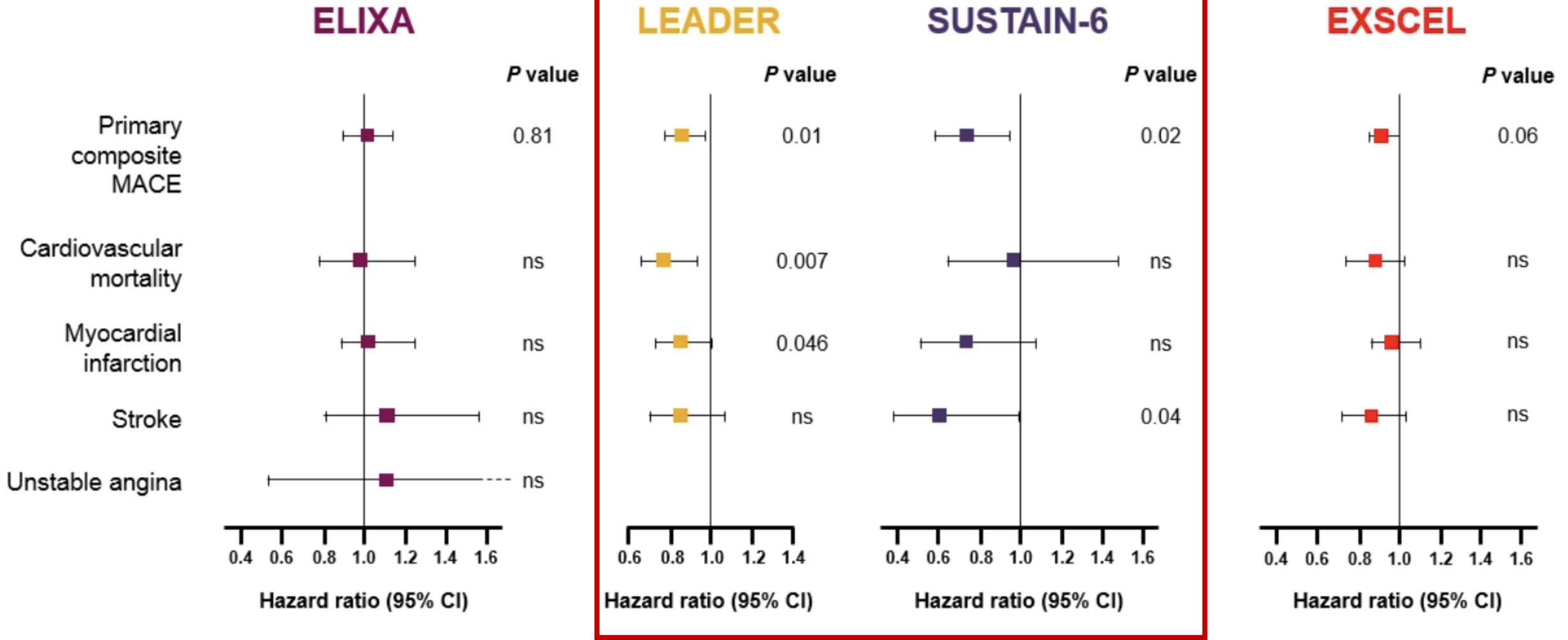
A Trial Design Summary



B Summary of key cardiovascular outcomes



Primary Endpoint and Its Individual Components in ELIXA, LEADER, SUSTAIN-6 and EXSCCEL



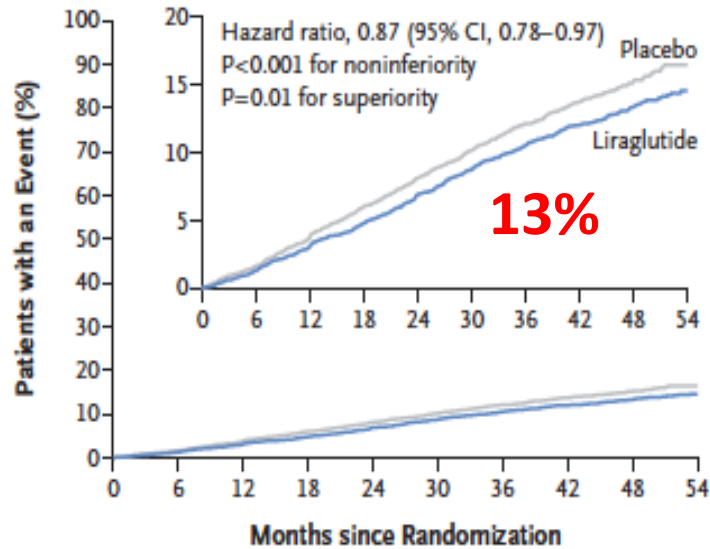
CI, confidence interval; MACE, major adverse cardiovascular event; ns, not significant.

Adapted from Pfeffer MA, et al. *N Engl J Med* 2015;373:2247-2257; Marso SP, et al., *N Engl J Med* 2016;375:311-22; Marso SP, et al., *N Engl J Med* 2016 375:1834-1844; Holman RR et al., *N Engl J Med*, in press.

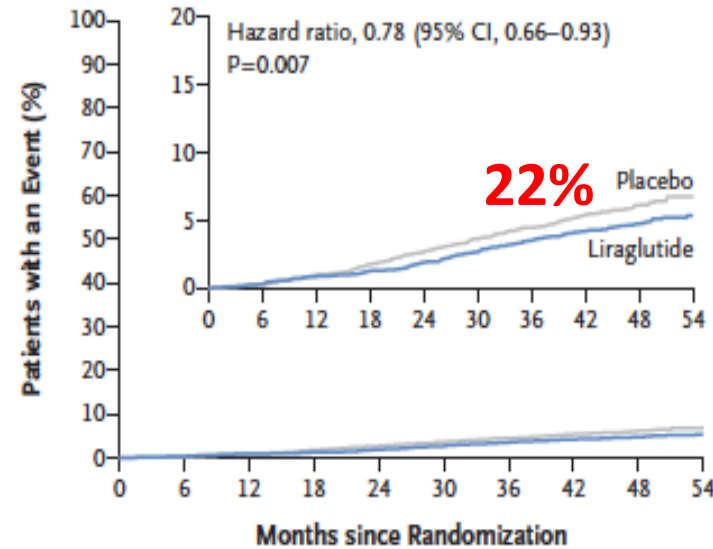
LEADER[®]

Liraglutide Effect and Action in Diabetes:
Evaluation of cardiovascular outcome Results

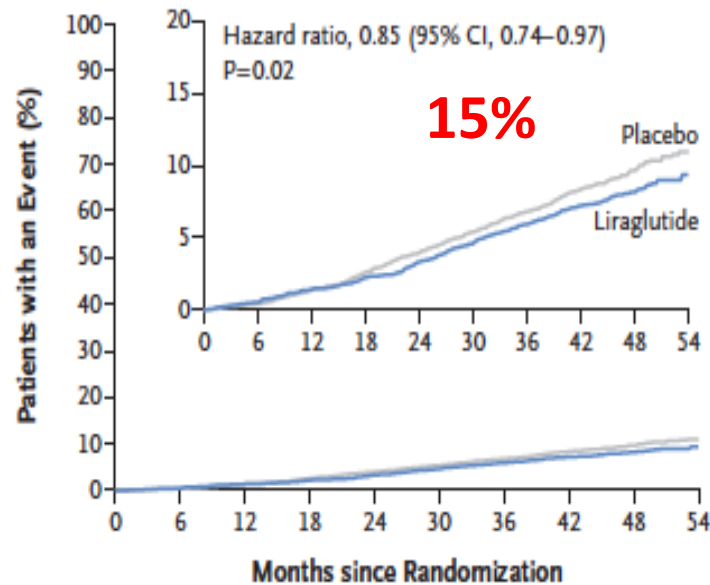
A Primary Outcome



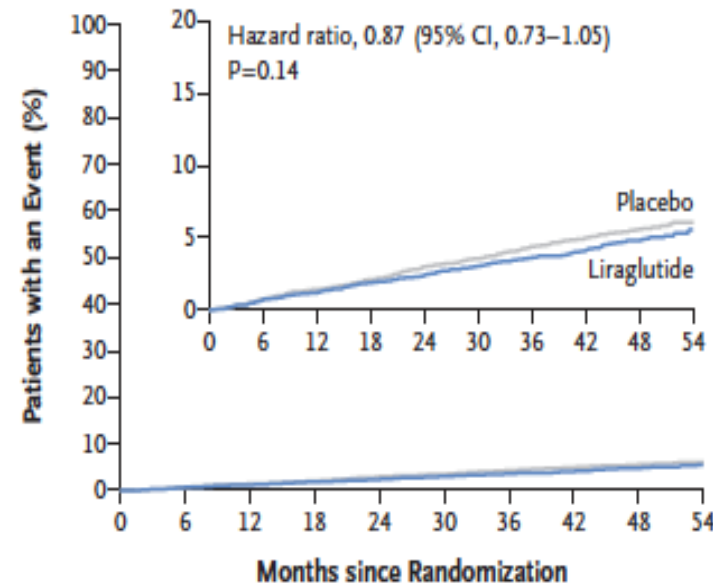
B Death from Cardiovascular Causes



E Death from Any Cause



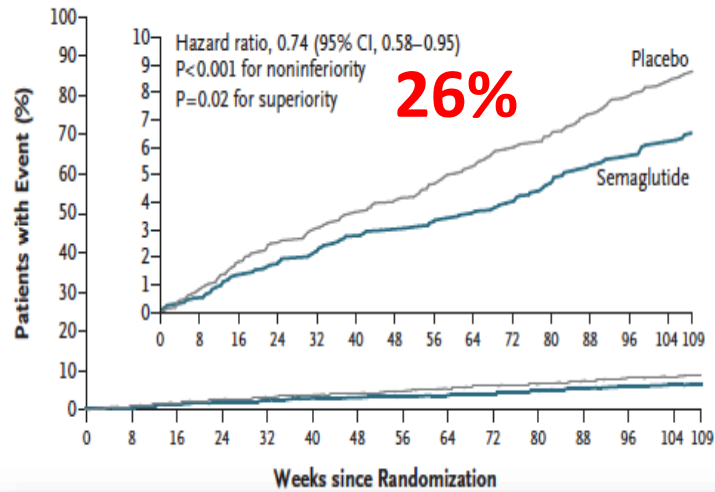
F Hospitalization for Heart Failure



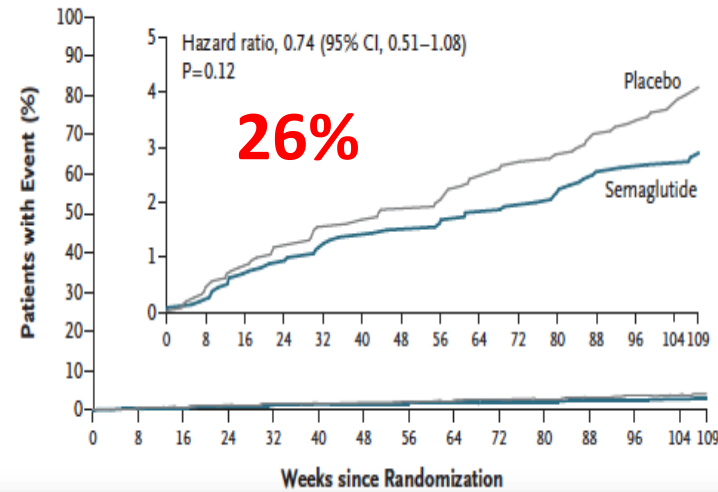
SUSTAIN

SEMAGLUTIDE UNABATED SUSTAINABILITY
IN TREATMENT OF TYPE 2 DIABETES

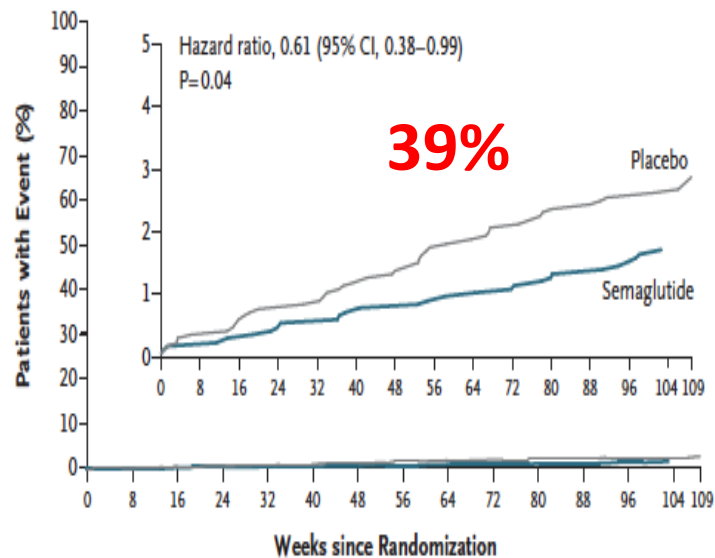
A Primary Outcome



B Nonfatal Myocardial Infarction



C Nonfatal Stroke



D Death from Cardiovascular Causes

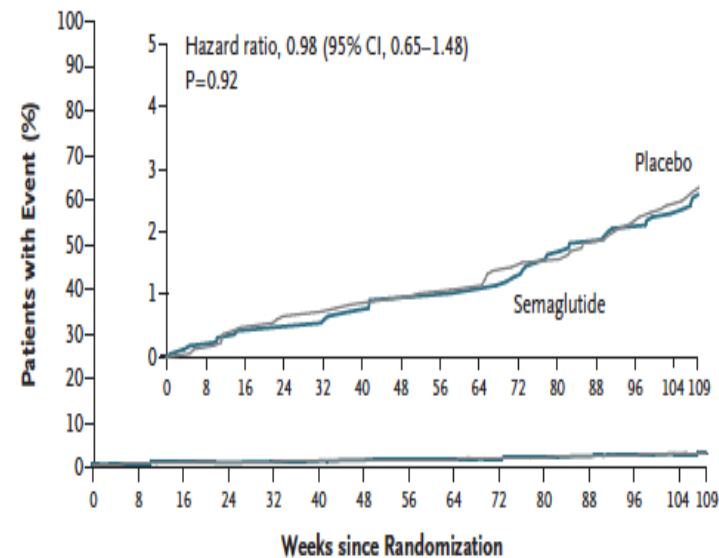
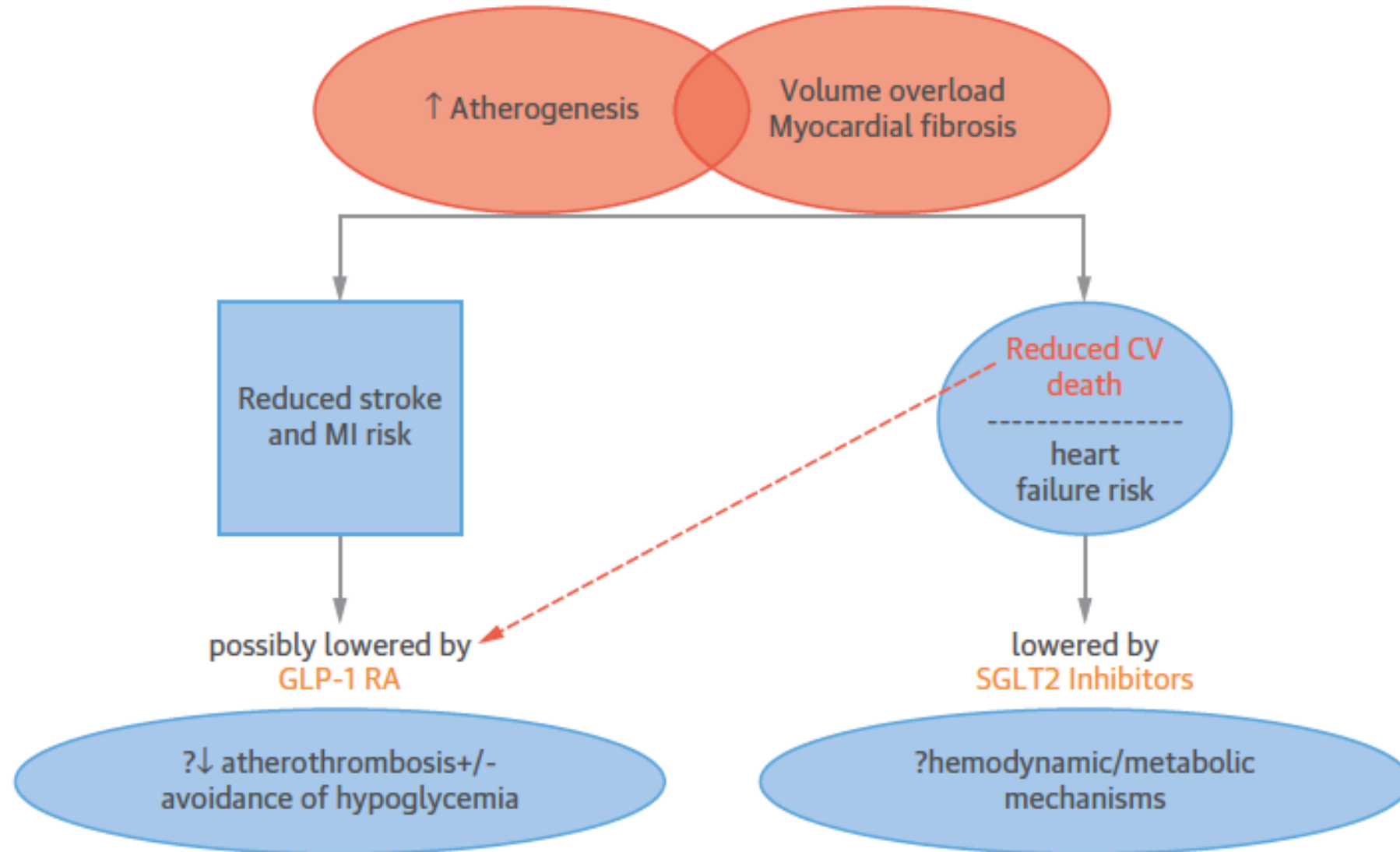


FIGURE 3 Summary of New Diabetes Drugs and Patterns of CV Benefits in Patients With T2DM and CV Disease



DM2

Control multifactorial

p2ª

1º: Elección en función del beneficio cardiovascular

FG > 60

FG 60-45

FG 45-30

FG 30-15

MET + iSGLT2 o arGLP1
Empagliflozina Liraglutida
Canagliflozina

MET + arGLP1 o iSGLT2*
Liraglutida Empagliflozina
Canagliflozina

MET** + arGLP1
Liraglutida

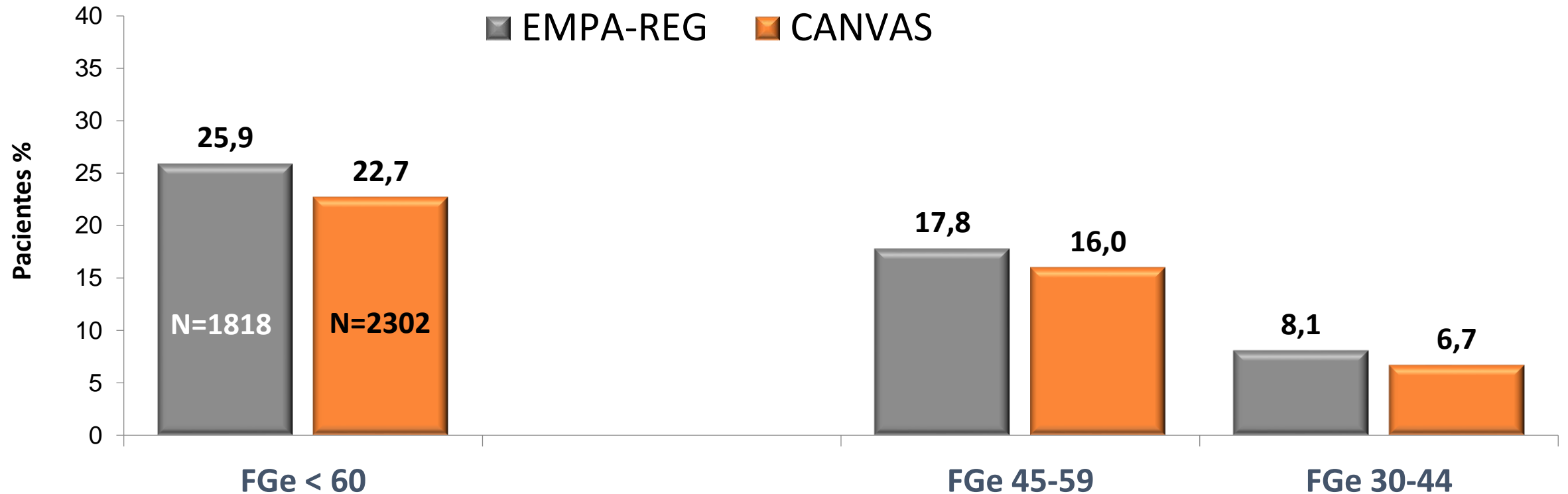
arGLP1
Liraglutida

¿ FG ?

* No iniciar. Sí mantener: Empa 10 mg o Cana 100 mg

** No iniciar MET. Sí mantener.

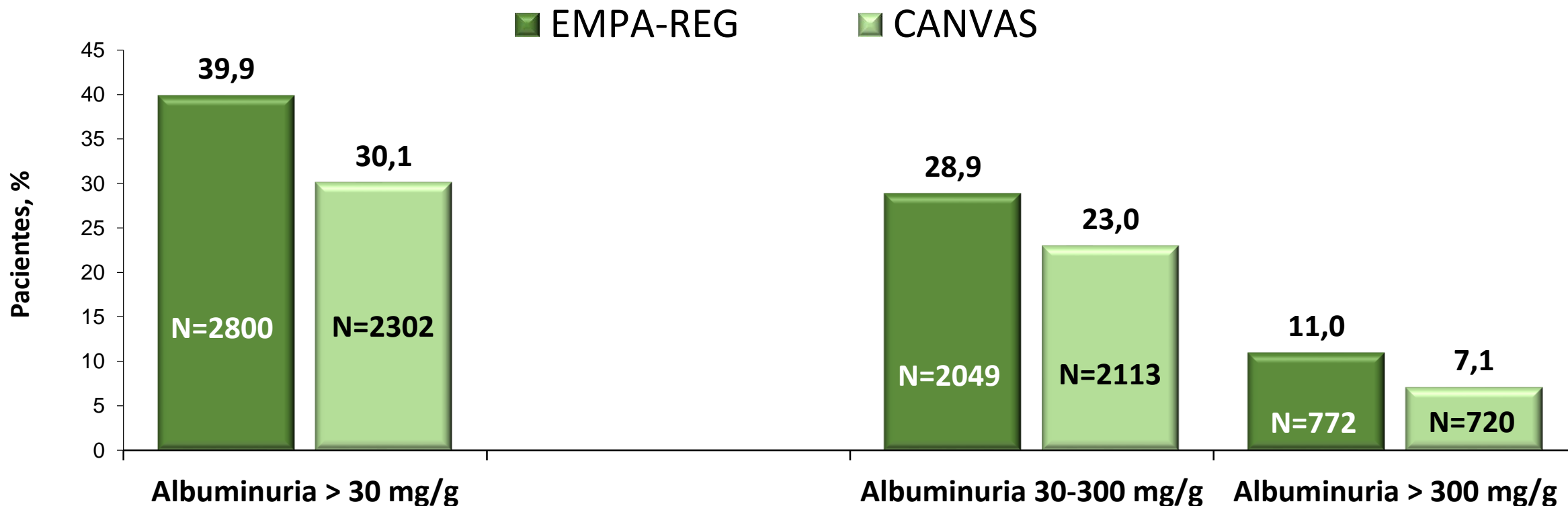
Porcentaje de pacientes con FGe < 60 ml/min/1,73 m² en los estudios EMPA-REG OUTCOME Y CANVAS



FGe: ml/min/1,73 m²

Wanner C. New Engl J Med 2016, June 14
Neal B. New Engl J Med 2017, 377(7):644-657
Perkovic V. Poster FR-PO 1058. ASN New Orleans. Novbre 2017

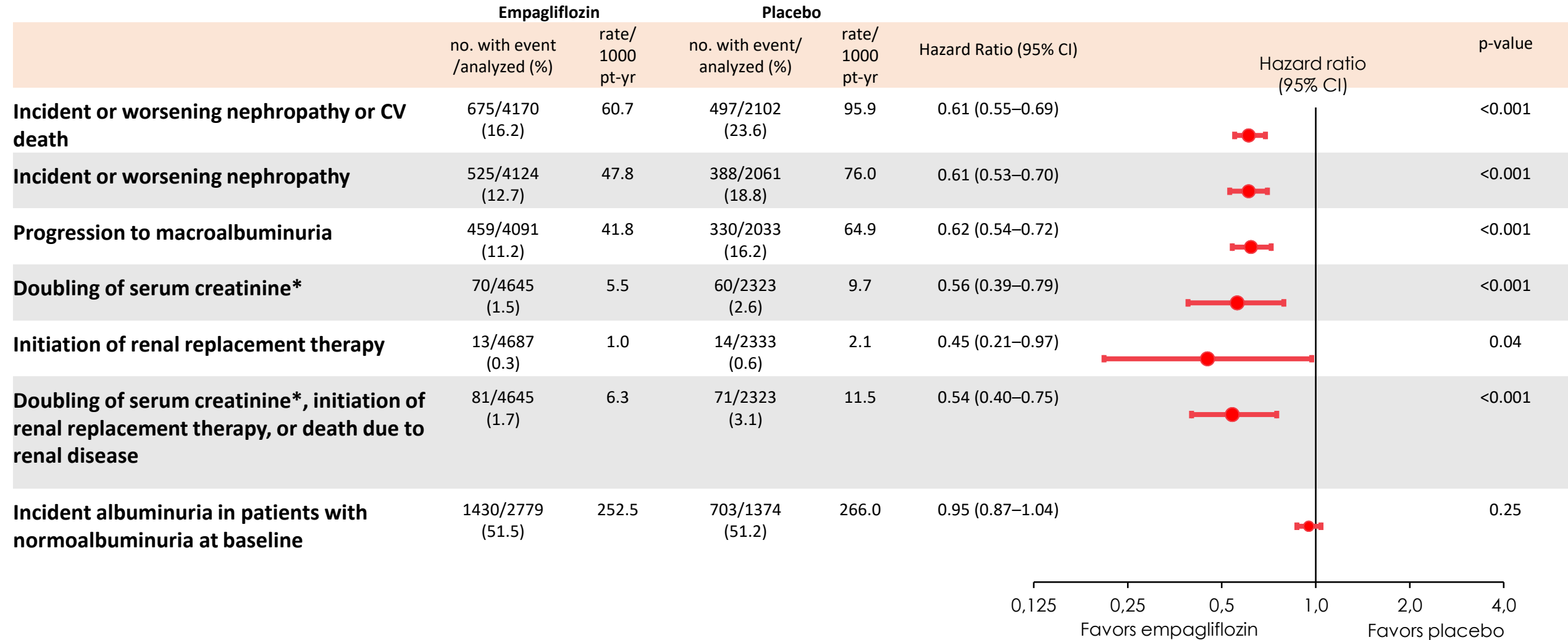
Porcentaje de pacientes con ALBUMINURIA en los estudios EMPA-REG OUTCOME Y CANVAS



IRMA 2: 950 pacientes
RENAAL: 1513 pacientes
IDNT: 1715 pacientes

Wanner C. New Engl J Med 2016, June 14
Neal B. New Engl J Med 2017, 377(7):644-657
Perkovic V. Poster FR-PO 1058. ASN New Orleans. Novbre 2017

EMPA-REG OUTCOME: Renal outcomes (todos los pacientes)

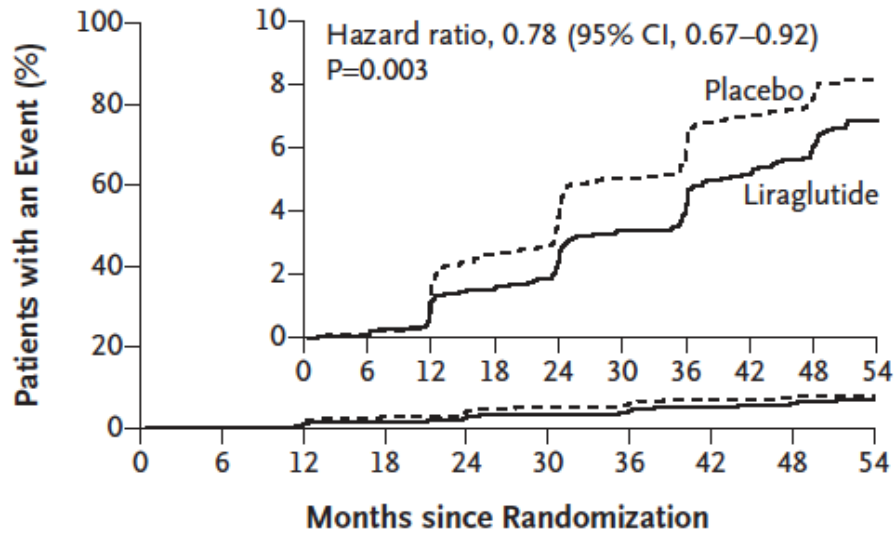


Analyses were prespecified except for the composite of doubling of serum creatinine, initiation of renal replacement therapy, or death due to renal disease.

*Accompanied by eGFR [MDRD] ≤ 45 ml/min/1.73m².

Liraglutide: efecto en nefropatía*

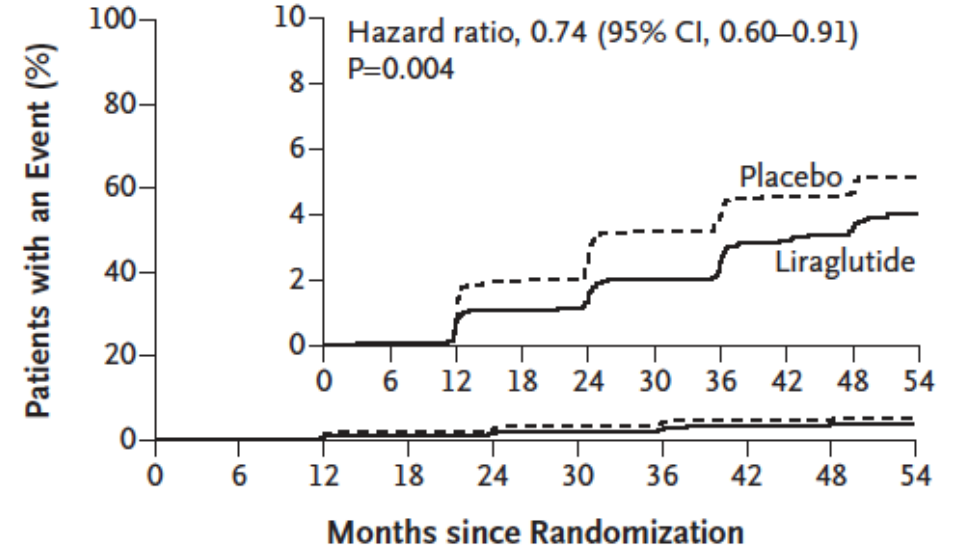
A Composite Renal Outcome



No. at Risk

Placebo	4672	4643	4540	4428	4316	4196	4094	3990	1613	433
Liraglutide	4668	4635	4561	4492	4400	4304	4210	4114	1632	454

B New Onset of Persistent Macroalbuminuria



No. at Risk

Placebo	4672	4646	4551	4455	4359	4252	4162	4073	1642	442
Liraglutide	4668	4638	4570	4508	4437	4353	4268	4182	1662	461

No beneficio en duplicación de creatinina ni IRCT

	%	Nº
FGe 30-59 ml/min/1,73 m ²	20.7 %	1934
Microalbuminuria	26.1 %	244
Macroalbuminuria	10.3 %	966

	Hazard Ratio (95% CI)	P Value
Microvascular event	0.84 (0.73–0.97)	0.02
Retinopathy	1.15 (0.87–1.52)	0.33
Nephropathy ↓ 22%	0.78 (0.67–0.92)	0.003

*Macroalbuminuria, doubling of serum creatinine, ESRD, renal death

DM2

Control multifactorial

p2^a

1º: Elección en función del beneficio cardiovascular

FG > 60

FG 60-45

FG 45-30

FG 30-15

MET + iSGLT2 o arGLP1
Empagliflozina Liraglutida
Canagliflozina

MET + arGLP1 o iSGLT2*
Liraglutida Empagliflozina
Canagliflozina

MET** + arGLP1
Liraglutida

arGLP1
Liraglutida

2º: Si no control de A1C intensificar tratamiento

2º: Si no control de A1C intensificar tratamiento

A1C < 6,5%

A1C 6,5% -8 %

A1C > 8 %

¿ Qué asociamos?

2º: Si no control de A1C intensificar tratamiento

A1C < 6,5%

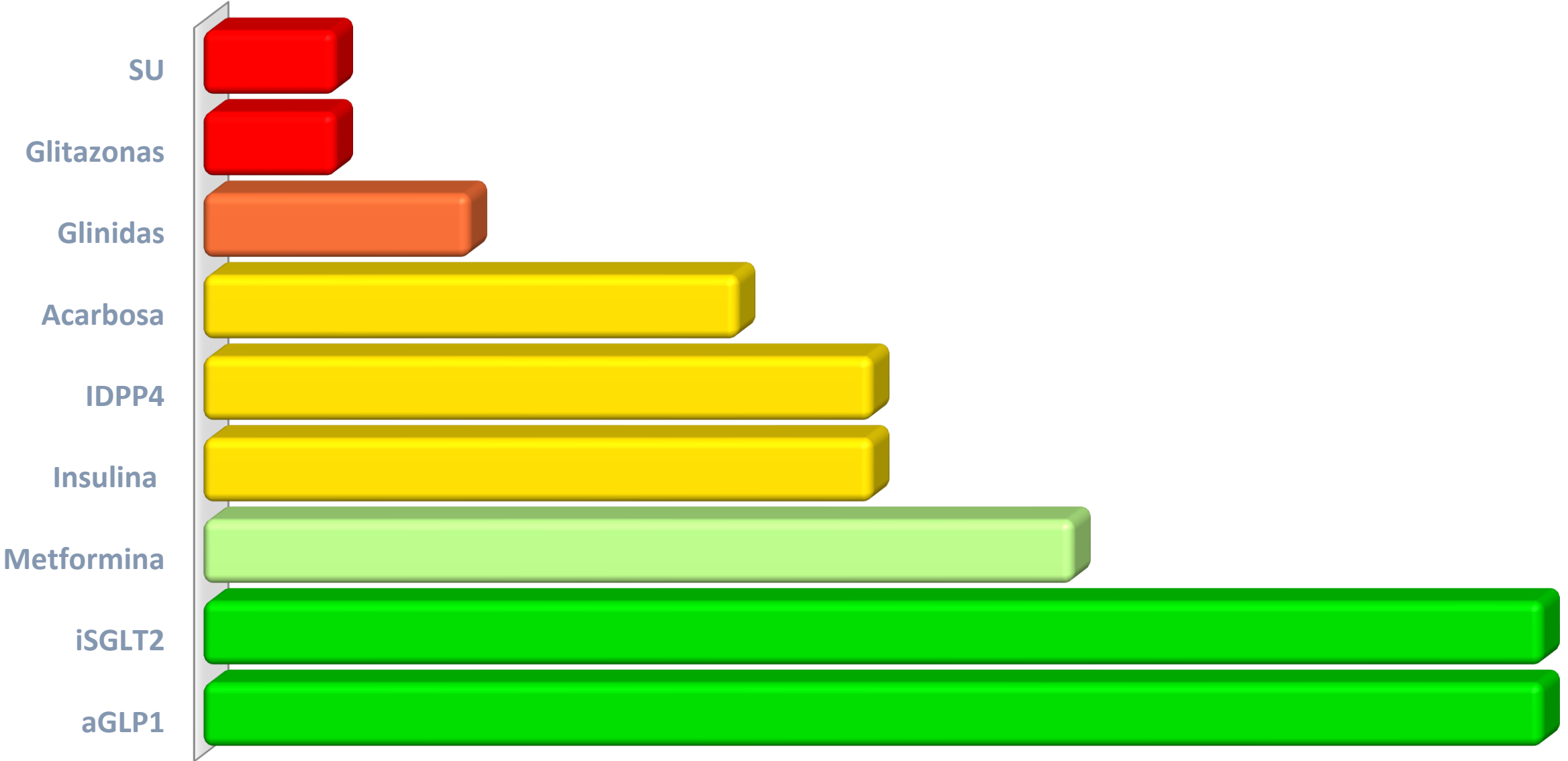
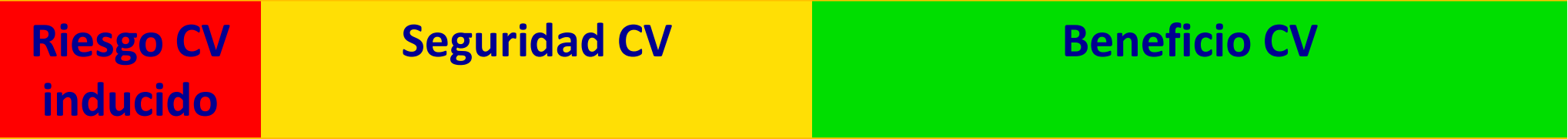
Seguir igual

A1C 6,5% -8 %

**Añadir iSGLT2 o arGLP1
ajustado a FG**

A1C > 8 %

**Añadir IDPP4 si no tto previo con arGLP1
ajustado FG**



Castro A.

Resultados CV de los últimos estudios en antidiabéticos no-insulínicos

	Inhibidores del SGLT-2		Agonistas del receptor GLP-1			Inhibidores de la DPP-4		
Estudio	EMPA-REG OUTCOME	Programa CANVAS	ELIXA	LEADER	SUSTAIN	SAVOIR	EXAMINE	TECOS
Fármaco	Empagliflozina	Canagliflozina	Lixisenatide	Liraglutide	Semaglutide	Saxagliptina	Alogliptina	Sitagliptina
3P-MACE	0,86* 0,74-0,99	0,86* 0,75-0,97	1.02 0,89-1.17	0,87* 0,78-0,97	0,74* 0,58-0,95	1,0 0,89-1,08	0,96 Sobre 1,16	0,98^ 0,89-1,08
Muerte CV	0,62* 0,70-0,77	0,87 0,72-1,06	0,98 0,78-1,22	0,78* 0,66-0,93	0,98 0,65-1,48	1,03 0,87-1,22	0,79 0,60-1,04	1,03 0,89-1,19
Infarto no fatal	0.67* 0,70-1,09	0,85 0,69-1,05	1,03+ 0,87-1,22	0,88 0,75-1,03	0,74 0,51-1,08	1,95 0,80-1,12	1,08 0,88-1,33	0,95+ 0,81-1,11
ACV no fatal	1.24 0,92-1,67	0,90 0,71-1,15	1,12+ 0,79-1,58	0,89 0,72-1,11	0,61* 0,38-0,99	1,11 0,88-1,39	0,91 0,55-1,50	0,97+ 0,89-1,08
Hospitalización por IC	0.65* 0,50-0,85	0,67 0,52-0,87	0,96 0,75-1,23	0,87 0,73-1,05	1,11 0,77-1,61	1,27* 1,07-1,51	1,07 0,78-1,15	1,00 0,83-1,20
Muerte por todas las causas	0,68* 0,57-0,82	0,87 0,74-1,01	0,94 0,78-1,13	0,85* 0,74-0,97	1,05 0,74-1,50	1,11 0,96-1,27	0,88 0,71-1,09	1,01 0,90-1,14

* Estadísticamente significativo, + ACV e infarto fatal y no fatal, ^ TECOS tuvo análisis 4P-MACE. Scirica BM et al. N Engl J Med 2013;369:1317; White WB et al. N Engl J Med 2013;369:1327; Pfeffer MA et al. N Engl J Med 2015;373:2247; Green JB et al. N Engl J Med 2015;373:232; Zinman B et al. N Engl J Med 2015;373:2117; Marso SP, et al. N Engl J Med. 2016;375(4):311–22; Marso SP, et al. N Engl J Med. 2016;375(19):1834–44. Buse N, et al. M Engl J Med. DOI: 10.1056/NEJMoa1611925

IDPP4	Estudio	Publicado	Seguridad CV	Eficacia CV
Alogliptina	EXAMINE	2013	Sí	Neutro
Saxagliptina	SAVOR	2013	Sí en MACES No en IC	Neutro
Sitagliptina	TECOS	2015	Sí	Neutro
Linagliptina	CAROLINA CARMELINA	En marcha En marcha		
Vildagliptina	META-ANÁLISIS	2015	Sí	Neutro
Omarigliptina	OMARIGLIPTINA	2017	Sí	Neutro

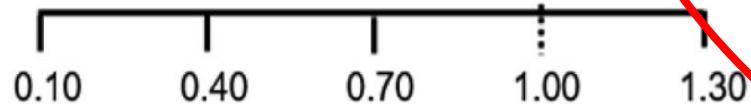
Saxagliptin (SAVOR TIMI 53)
HR = 1.00
(95% CI: 0.89-1.12)



Alogliptin (EXAMINE)
HR = 0.96
(one-side CI: 1.16)



Sitagliptin (TECOS)
HR = 0.98
(95% CI: 0.88-1.09)



HR (95% CI)

Lixisenatide (ELIXA)
HR = 1.02
(95% CI: 0.89-1.17)



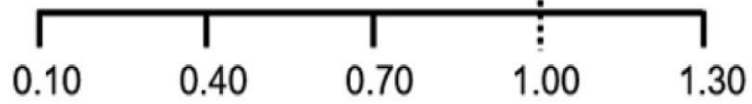
Liraglutide (LEADER)
HR = 0.87
(95% CI: 0.78-0.97)



Semaglutide (SUSTAIN-6)
HR = 0.74
(95% CI: 0.58-0.95)



Exenatide (EXSCEL)
HR = 0.91
(95% CI: 0.83-1.00)

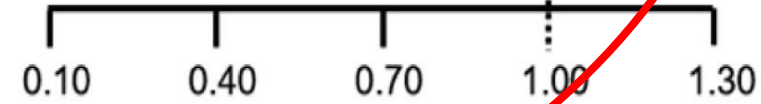


HR (95% CI)

Empagliflozin (EMPA-REG Outcome)
HR = 0.86
(95% CI: 0.74-0.99)



Canagliflozin (CANVAS-program)
HR = 0.86
(95% CI: 0.75-0.97)



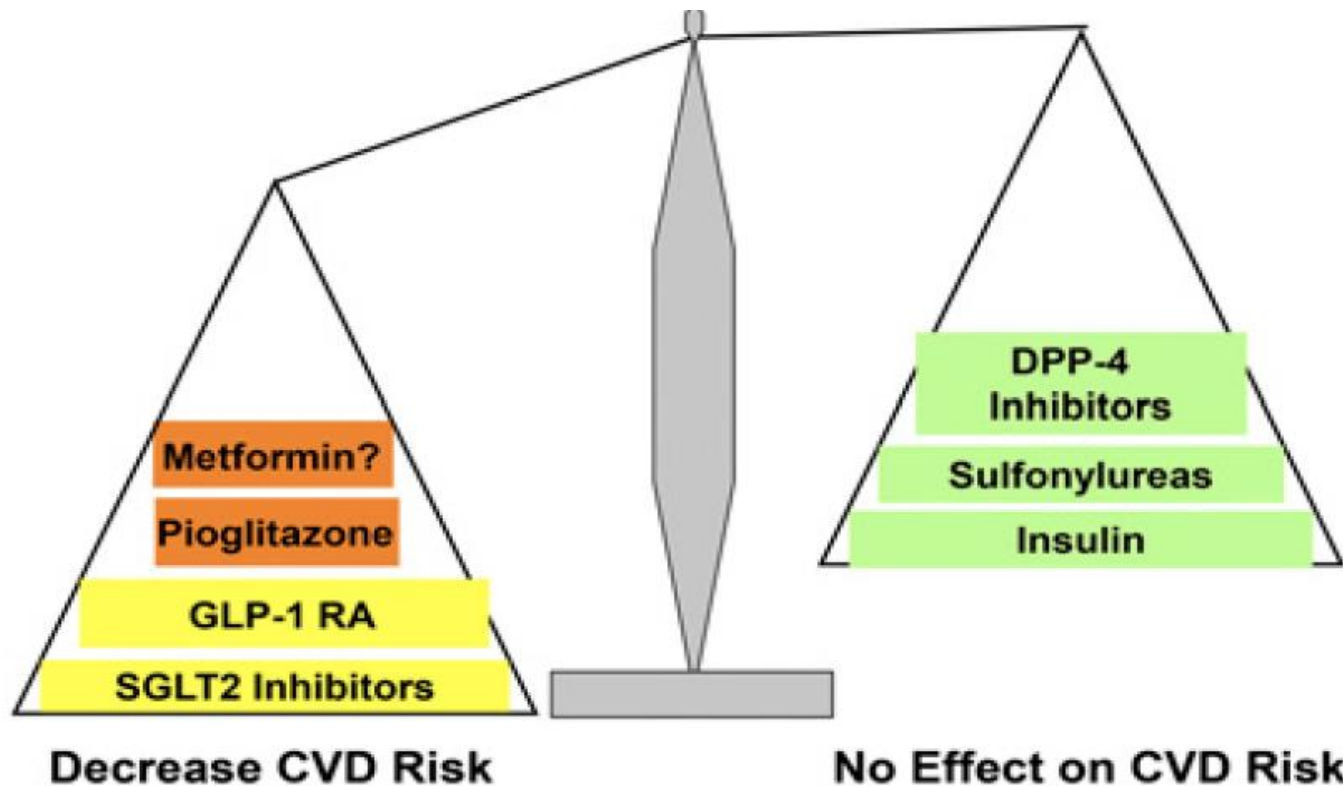
HR (95% CI)

¿La combinación razonable?

Cardiovascular Disease and Type 2 Diabetes: Has the Dawn of a New Era Arrived?

Diabetes Care 2017;40:813–820 | <https://doi.org/10.2337/dc16-2736>

Muhammad Abdul-Ghani,^{1,2}
Ralph A. DeFronzo,¹ Stefano Del Prato,³
Robert Chilton,⁴ Rajvir Singh,² and
Robert E.J. Ryder⁵



“...there emerges the intriguing possibility that, if used in **combination**, the effects of these antidiabetes agents may be **additive** or even multiplicative with regard to **cardiovascular benefit**.”

Strategies for Diabetes Management: Using Newer Oral Combination Therapies Early in the Disease



Results: New oral agents have made it possible to improve glycemic control to near-normal levels with a low risk of hypoglycemia and without weight gain, and sometimes with weight loss. Early combination therapy is effective and has been shown to have a favorable legacy effect. A number of agents are







GLP-1 receptor agonists and SGLT2 inhibitors: a couple at last?



risk for such events. A question for future trials will be whether a combination of GLP-1 receptor agonists and SGLT2 inhibitors, the two classes that have shown cardiovascular benefit in large outcomes trials, can increase the benefit over and above what the individual drugs can provide. Importantly, the GLP-1 receptor

GLP-1 receptor agonists and SGLT2 inhibitors: a couple at last?

.doi.org/10.1016/ S2213-8587(16)30263-7

	GLP-1 receptor agonist		SGLT2 inhibitor	Combination therapy
Appetite	↓		↑ (?)	↓
Bodyweight	↓		↓	↓↓
Ischaemic cardiovascular events	↓		↓	↓↓
Heart failure events	↔		↓	↓
Insulin secretion	↑		↓	↑
Glucagon secretion	↓		↑	↔
Hepatic glucose output	↓		↑	↔
Ketone body production	↓ (?)		↑	↔
Glucose uptake (insulin-mediated)	↑ (?)		↑	↑↑
Diuresis, natriuresis	↑ (acutely)		↑	↑
Urinary glucose excretion	↔		↑	↑
Renoprotection	↔		↑	↑

2º: Si no control de A1C intensificar tratamiento

A1C < 6,5%

Seguir igual

A1C 6,5% -8 %

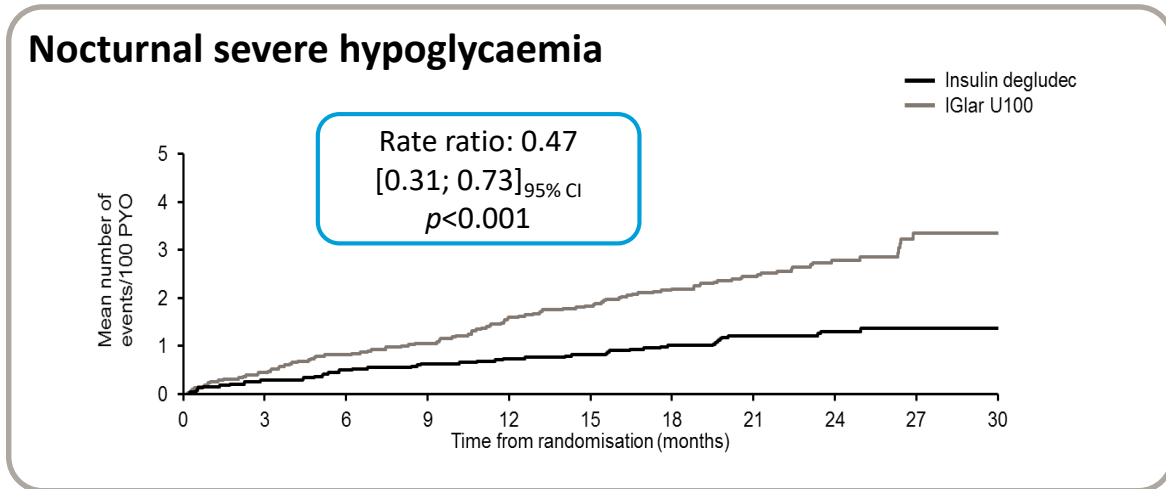
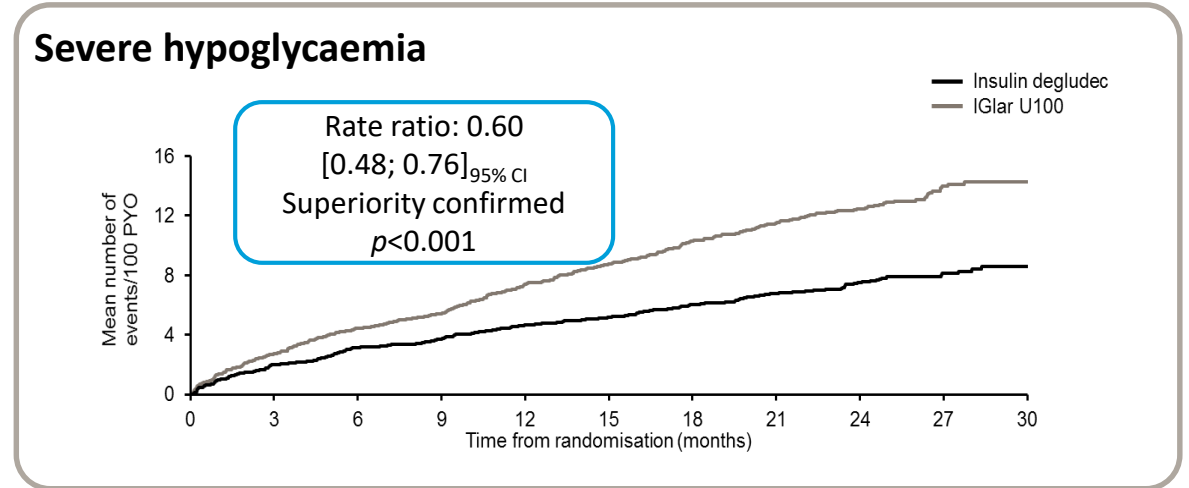
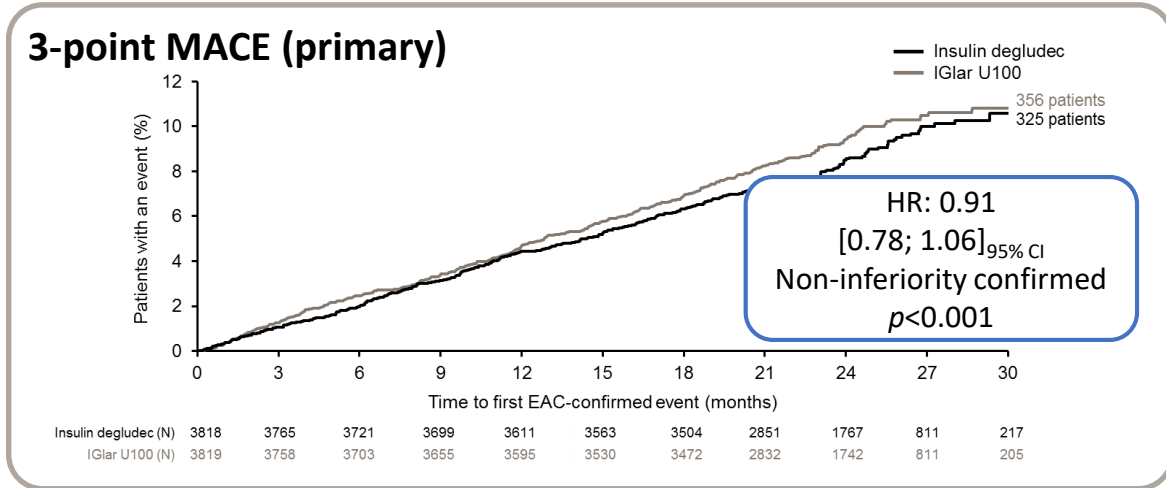
**Añadir iSGLT2 o arGLP1
ajustado a FG**

A1C > 8 % ***

**iDPP4 si no posibilidad de arGLP1
ajustado a FG**

**Insulina Basal:
Degludec o Glargina 300
Insulina prandial.**

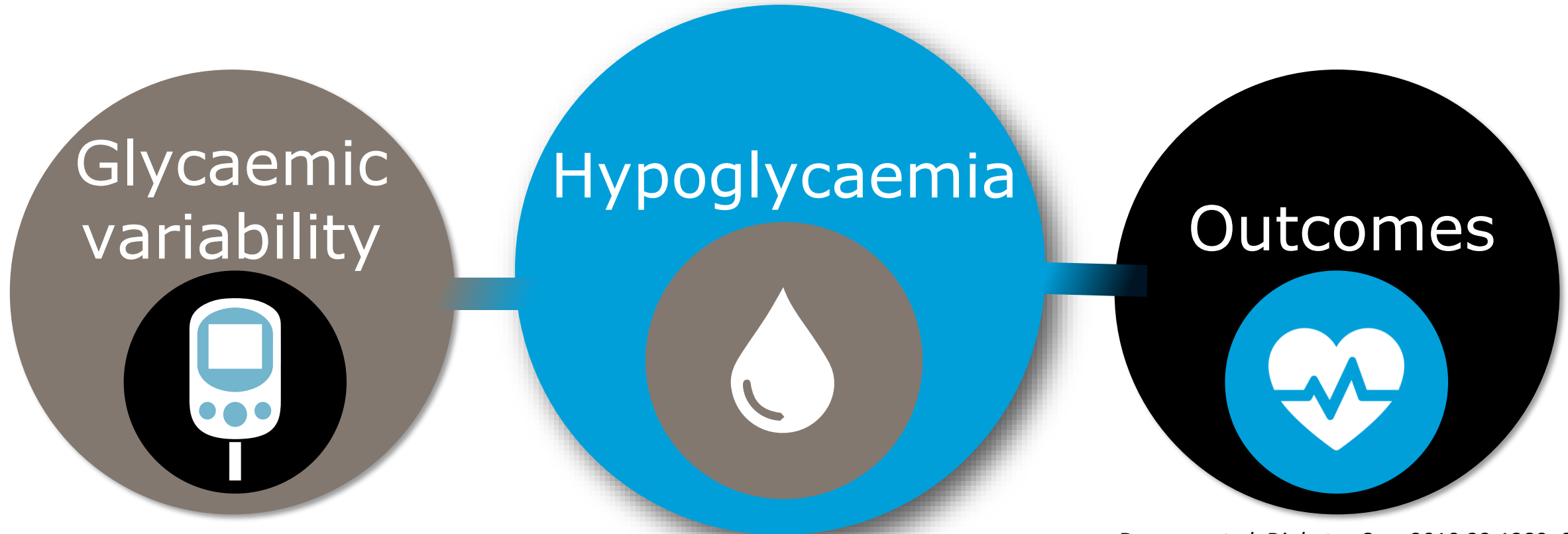
DEVOTE (degludec vs glargine100)



- DEVOTE confirmed the cardiovascular safety of insulin degludec in comparison with insulin glargine (both U100)
- DEVOTE reported 752 adjudication-confirmed severe hypoglycaemic events in a blinded head-to-head trial
- A 40% lower rate of severe hypoglycaemia was confirmed at similar levels of HbA_{1c}
- A 53% lower rate of nocturnal severe hypoglycaemia was confirmed at a lower fasting plasma glucose

CI, confidence interval; EAC, Event Adjudication Committee; HR, hazard ratio; IGlAr U100, insulin glargine U100; MACE, major adverse cardiovascular events; N, number of patients at risk; PYO, patient-years of observation

Association between glycaemic variability, hypoglycaemia and outcomes



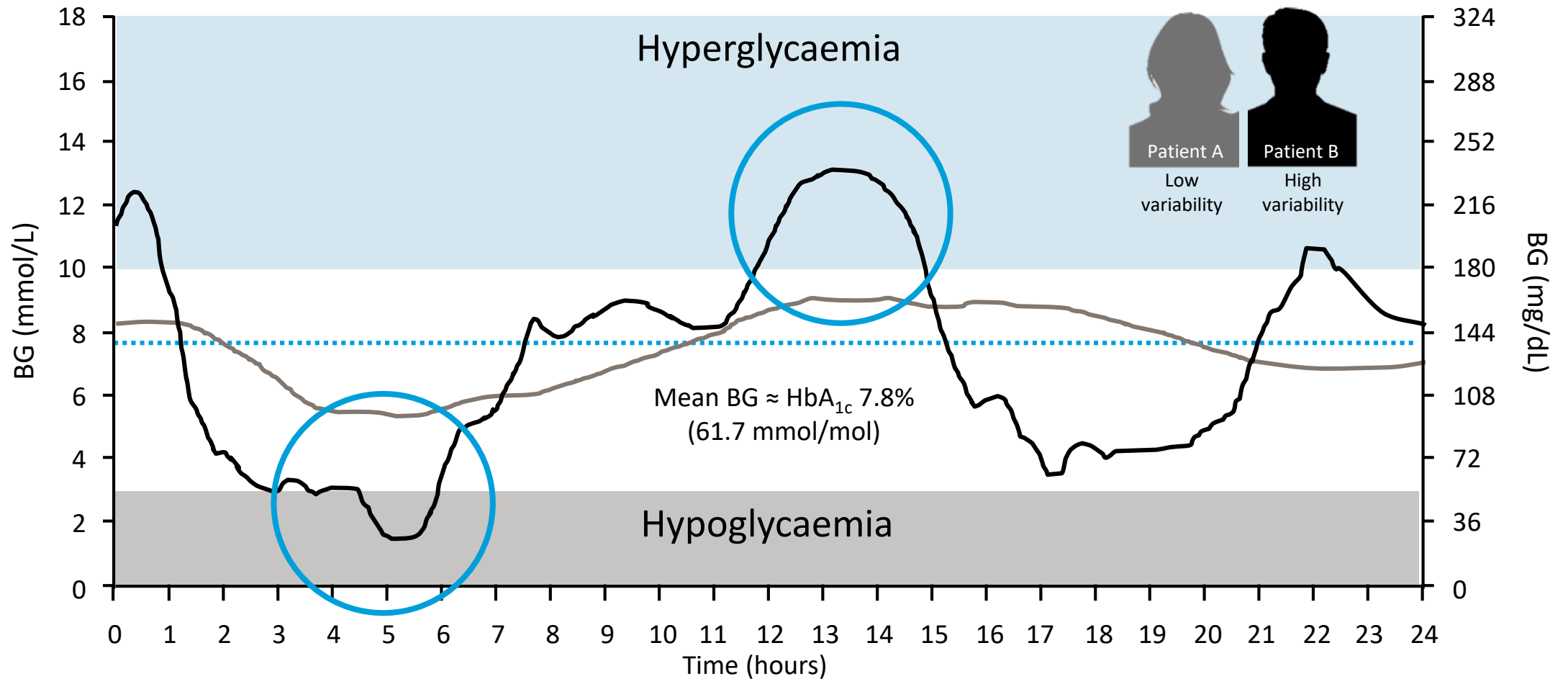
Desouza et al. Diabetes Care 2010;33:1389–94;

Driesen et al. J Neurosci Res 2007;85:575–82;

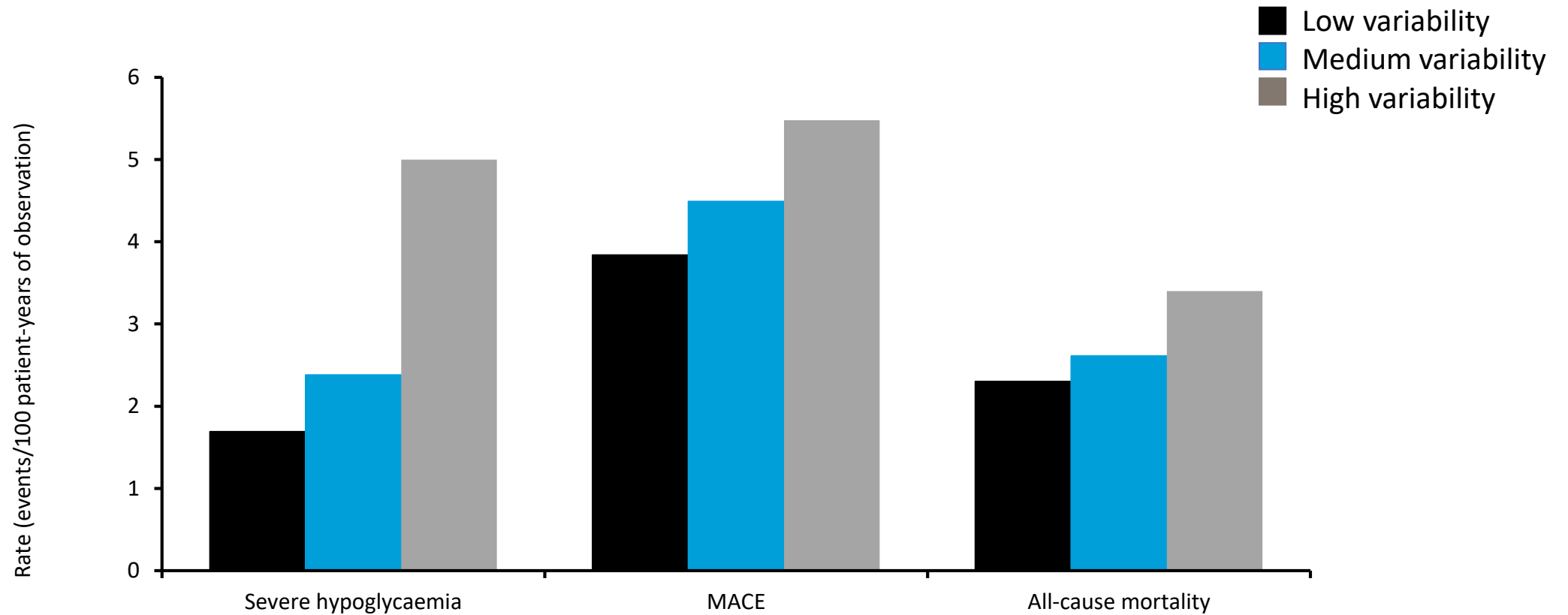
Mooradian. Brain Res Brain Res Rev 1997;23:210–8;

Sanon et al. Clin Cardiol 2014;37:499–504; Dhalla et al. J Hypertens 2000;18:655–73

Glycaemic control: similar A_{1c} , different profile



Outcomes by variability tertile



MACE, major adverse cardiovascular events

	Reducción de mortalidad en cardiopatía isquémica
Aspirina	15%
IECA	23 %
BB	23 %
Estatinas	29 %
Dejar de fumar	36%
Empagliflozina	38%
Liraglutida	22%

Critchley JA, Capewell S. *JAMA*; 2003 ; 290: 86-97.

Zinman B *N Engl J Med* 2015; 373:2117-2128

Marso S et al; *N Engl J Med* 2016; 375:311-322

