

UPDATE E INNOVACIONES EN DIABETES CUIDADO CARDIOVASCULAR Y ROL DE INHIBIDORES DE DPP-4 Y SGLT-2

Ma. de los Milagros Rubio

Problemas Actuales

PREVALENCIA MUNDIAL (18-99 AÑOS)

	Año 2017	Año 2045
DM	451 millones (8,4%)	693 millones (9,9%)
Prediabetes	374 millones (7,7%)	587 millones (8,4%)

49,7% de personas con DM permanecen sin diagnostico

Prevalencia

- 33% de los adultos > 65 años tienen DM tipo 2
- 50% de los adultos > 65 años tienen PREDIABETES
- Es una población con mas riesgo de complicaciones diabéticas

Treatment of Diabetes in Older Adults: An Endocrine Society* Clinical Practice Guideline

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DIABETES NO ATENDIDA



Año 2017

5 millones de muerte (20-99 años)
36,5% en menores de 60 años

Paciente, familias y salud pública
\$850 billones a nivel mundial (2017)

DIAGNOSTICO TEMPRANO

Table 2.2—Criteria for the diagnosis of diabetes

FPG ≥ 126 mg/dL (7.0 mmol/L). Fasting is defined as no caloric intake for at least 8 h.*

OR

2-h PG ≥ 200 mg/dL (11.1 mmol/L) during OGTT. The test should be performed as described by the WHO, using a glucose load containing the equivalent of 75-g anhydrous glucose dissolved in water.*

OR

A1C $\geq 6.5\%$ (48 mmol/mol). The test should be performed in a laboratory using a method that is NGSP certified and standardized to the DCCT assay.*

OR

In a patient with classic symptoms of hyperglycemia or hyperglycemic crisis, a random plasma glucose ≥ 200 mg/dL (11.1 mmol/L).

diagnosis requires two abnormal test results from the same sample or in two separate test samples.

Diabetes Care. 2019

- ≥ 65 años: Pesquisa de DM con dosaje de HbA1c y/o glucemia en ayunas
- PTOG en pacientes valores de prediabetes y con alto riesgo de DM :
 - Sobrepeso u obesidad
 - Familiares de 1º grado con DM
 - Raza
 - Enf. Cardiovascular
 - HTA ($\geq 140/90$ mmHg)
 - HDL < 35 mg/dl, y/o TAG > 250 mg/dl
 - SAOS
 - Sedentarismo

LeRoith D. et al. JCEM. 2019. 104(5):1520–1574

Rol del Cardiólogo

1º) Pesquisa de DM2 en pacientes con ASCVD establecida o alto riesgo de ASCVD

2º) Tratamiento agresivo de los factores de riesgo CV

- ✓ Dieta
- ✓ Actividad Física
- ✓ Pérdida de peso
- ✓ Control de la presión arterial
- ✓ Control de lípidos
- ✓ Uso de agentes antiagregantes plaquetarios

3º) Conocimiento de los nuevos fármacos hipoglucemiantes con efecto CV

TRATAMIENTO ADECUADO

- ✓ **Paciente comprometido**
- ✓ **Médico actualizado**
- ✓ **Sistema de salud**

Diabetologia

<https://doi.org/10.1007/s00125-018-4729-5>

CONSENSUS REPORT



Management of hyperglycaemia in type 2 diabetes, 2018. A consensus report by the American Diabetes Association (ADA) and the European Association for the Study of Diabetes (EASD)

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- Cambios en Estilo de Vida
- Diabetes Self Management Education (DSME)
- Tratamiento de la Obesidad
- Elección de Fármacos: 1^º evaluar comorbilidades (ASCVD, ERC, ICC)

REVIEW AND AGREE ON MANAGEMENT PLAN

- Review management plan
- Mutual agreement on changes
- Ensure agreed modification of therapy is implemented in a timely fashion to avoid clinical inertia
- Decision cycle undertaken regularly (at least once/twice a year)

ASSESS KEY PATIENT CHARACTERISTICS

- Current lifestyle
- Comorbidities, i.e., ASCVD, CKD, HF
- Clinical characteristics, i.e., age, HbA_{1c}, weight
- Issues such as motivation and depression
- Cultural and socioeconomic context

ONGOING MONITORING AND SUPPORT INCLUDING:

- Emotional well-being
- Check tolerability of medication
- Monitor glycemc status
- Biofeedback including SMBG, weight, step count, HbA_{1c}, blood pressure, lipids

CONSIDER SPECIFIC FACTORS THAT IMPACT CHOICE OF TREATMENT

- Individualized HbA_{1c} target
- Impact on weight and hypoglycemia
- Side effect profile of medication
- Complexity of regimen, i.e., frequency, mode of administration
- Choose regimen to optimize adherence and persistence
- Access, cost, and availability of medication

AGREE ON MANAGEMENT PLAN

- Specify SMART goals:
 - Specific
 - Measurable
 - Achievable
 - Realistic
 - Time limited

SHARED DECISION MAKING TO CREATE A MANAGEMENT PLAN

- Involves an educated and informed patient (and their family/caregiver)
- Seeks patient preferences
- Effective consultation includes motivational interviewing, goal setting, and shared decision making
- Empowers the patient
- Ensures access to DSMES

IMPLEMENT MANAGEMENT PLAN

- Patients not meeting goals generally should be seen at least every 3 months as long as progress is being made, more frequent contact initially is often desirable for DSMES

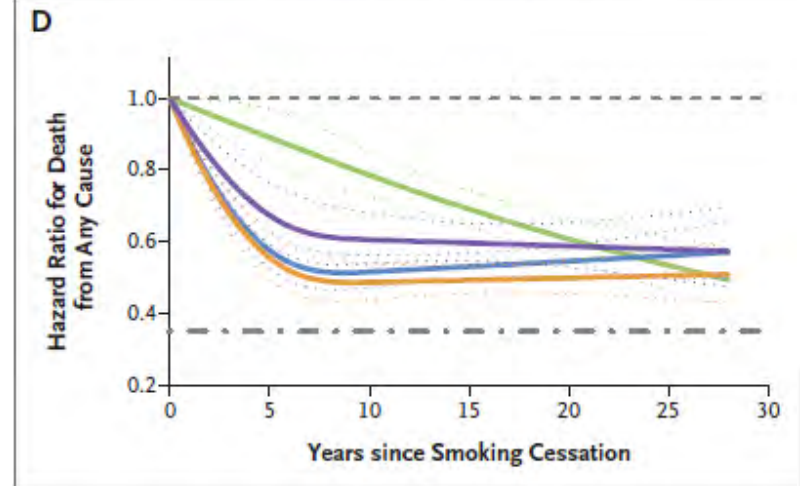
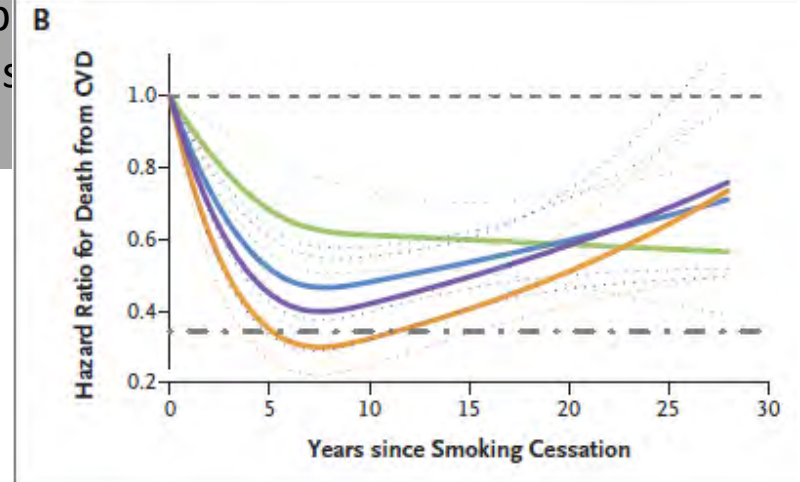
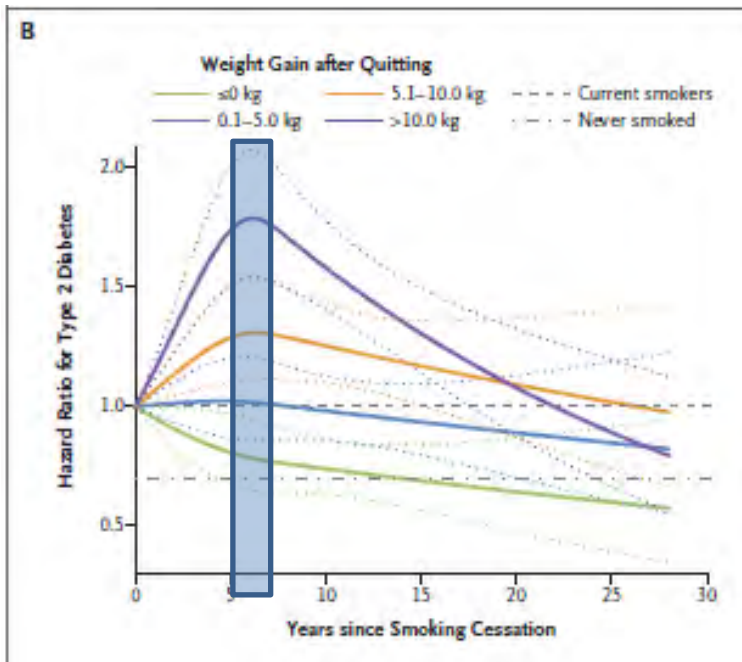


GOALS OF CARE

- Prevent complications
- Optimize quality of life

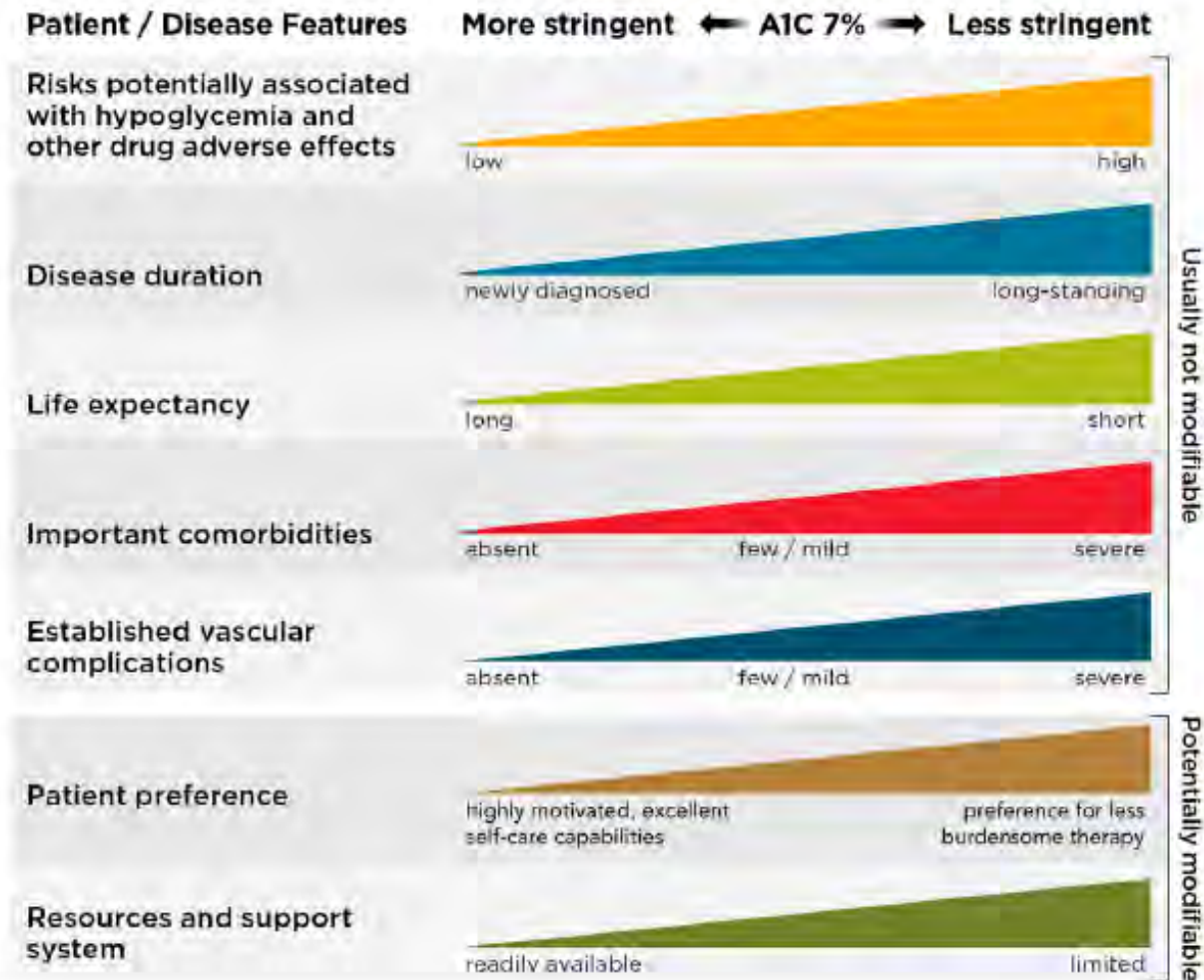
Smoking Cessation, Weight Change, Type 2 Diabetes, and Mortality

Riesgo de desarrollar DM luego de Abandonar Tb
Seguimiento de 19,6 años personas de 3 cohortes
12.384 casos de DM2 confirmados



Metas de HbA1c

Approach to Individualization of Glycemic Targets



Diabetes Care 2019;42(Suppl. 1):S61–S70

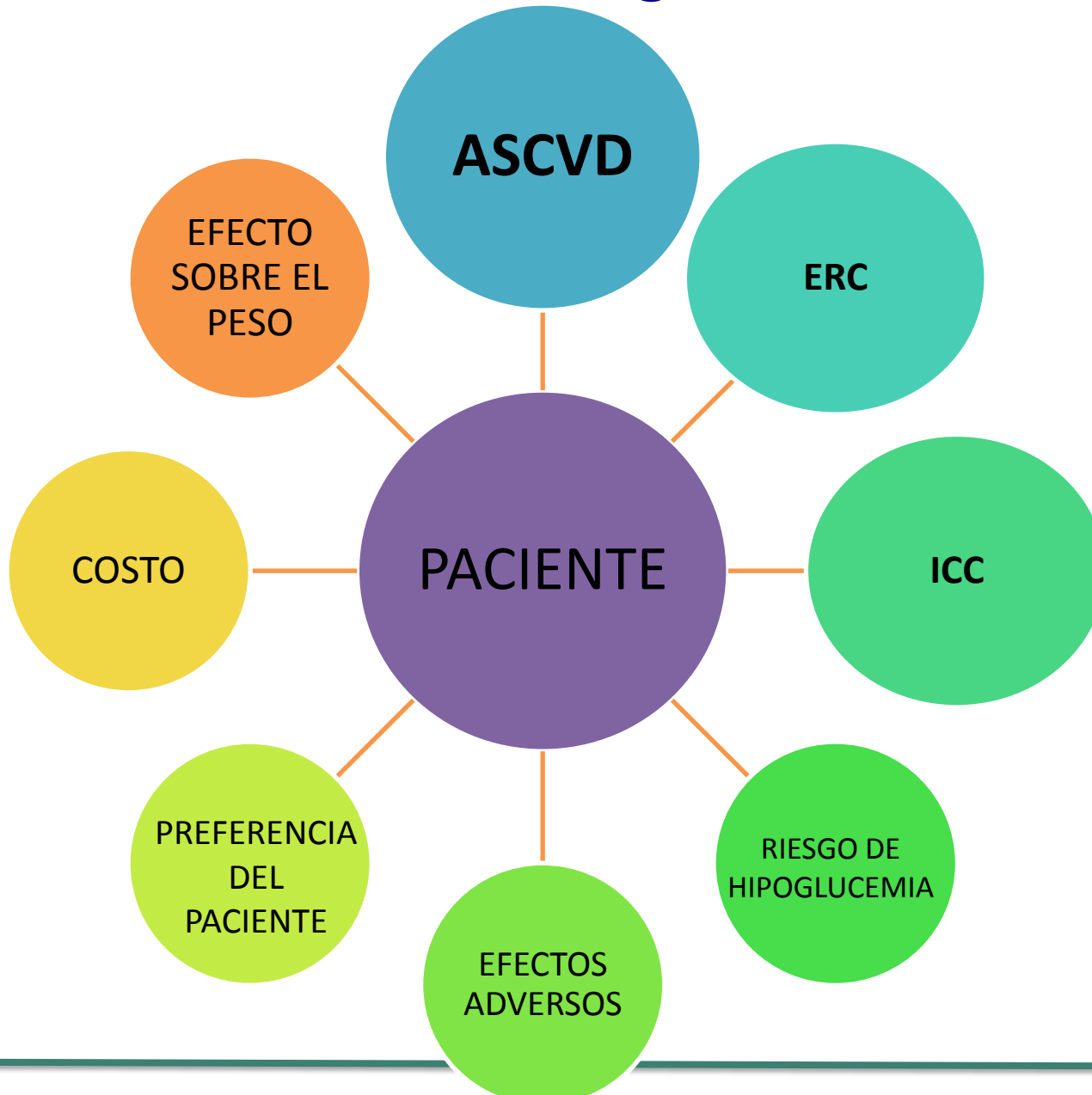
Objetivo de HbA1c en ≥ 65 años

Overall Health Category	Group 1: Good Health	Group 2: Intermediate Health	Group 3: Poor Health
Patient characteristics	<p>No comorbidities or 1-2 non-diabetes chronic illnesses* and No ADL[€] impairments and ≤ 1 IADL impairment</p>	<p>3 or more non-diabetes chronic illnesses* and/or Any one of the following: mild cognitive impairment or early dementia ≥ 2 IADL impairments</p>	<p>Any one of the following: End-stage medical condition(s)** Moderate to severe dementia ≥ 2 ADL impairments Residence in a long-term nursing facility</p>
<p>Reasonable glucose target ranges and HbA1c by group</p> <p>← Shared decision-making: individualized goal may be lower or higher →</p>			

Objetivo de HbA1c en ≥ 65 años

		Reasonable glucose target ranges and HbA1c by group		
		Shared decision-making: individualized goal may be lower or higher		
Use of drugs that may cause hypoglycemia (e.g., insulin, sulfonylurea, glinides)	No	Fasting: 90-130 mg/dL Bedtime: 90-150 mg/dL <7.5%	Fasting: 90-150 mg/dL Bedtime: 100-180 mg/dL <8%	Fasting: 100-180 mg/dL Bedtime: 110-200 mg/dL <8.5% [¥]
	Yes [£]	Fasting: 90-150 mg/dL Bedtime: 100-180 mg/dL ≥ 7.0 and <7.5%	Fasting: 100-150 mg/dL Bedtime: 150-180 mg/dL ≥ 7.5 and <8.0%	Fasting: 100-180 mg/dL Bedtime: 150-250 mg/dL ≥ 8.0 and <8.5% [¥]

Tratamiento farmacológico



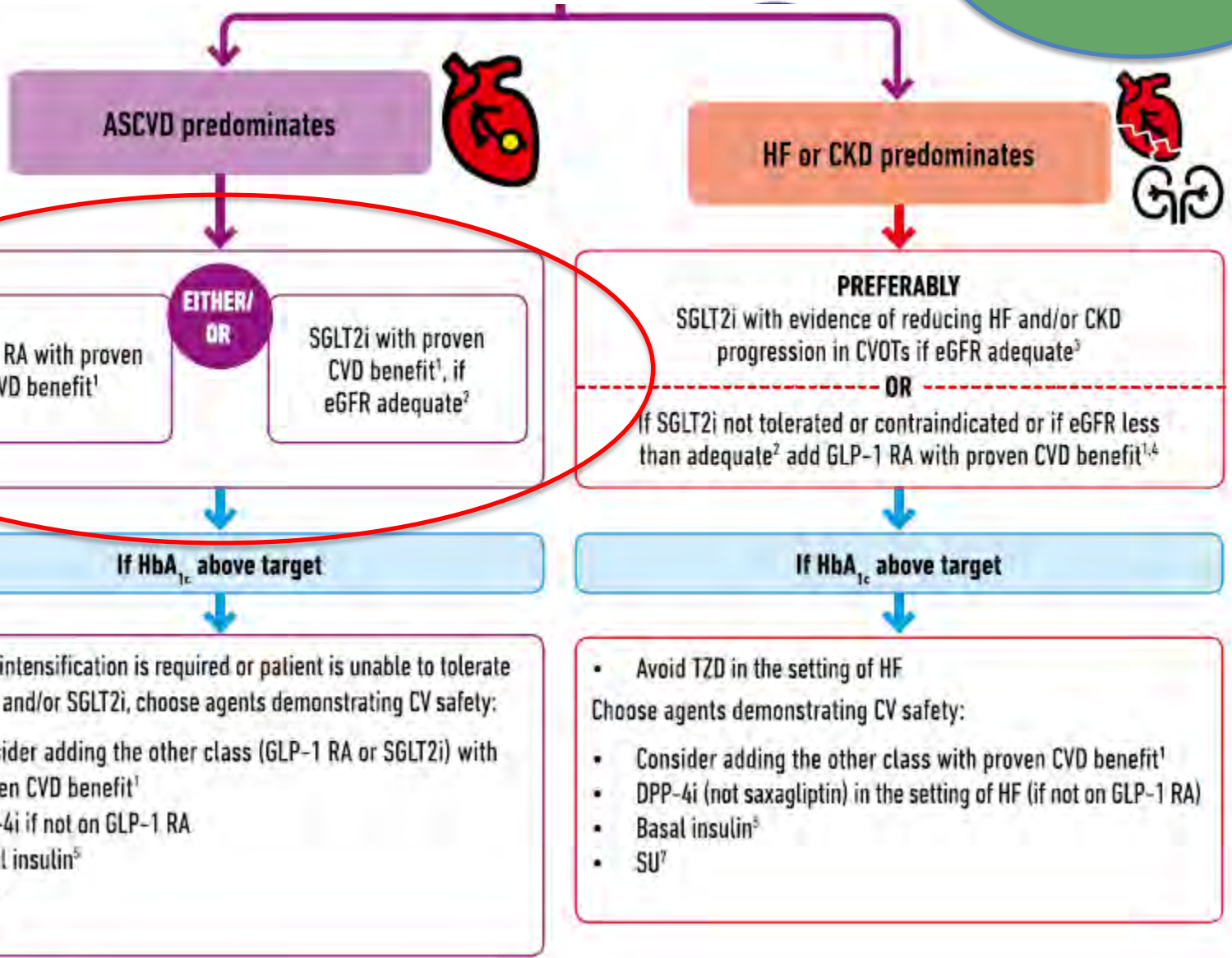
1ª Línea: METFORMINA



Si HbA1c > 1,5% del objetivo individualizado:
considerar tratamiento combinado

15-20%
de los pacientes

CHOOSING GLUCOSE-LOWERING MEDICATION IN THOSE WITH ESTABLISHED ATHEROSCLEROTIC CARDIOVASCULAR DISEASE (ASCVD) OR CHRONIC KIDNEY DISEASE (CKD)



SGLT2-i

	EMPA-REG OUTCOME ¹	CANVAS Program ²	DECLARE-TIMI 58 ³
Drug	Empagliflozin	Canagliflozin	Dapagliflozin
Doses analysed	10 mg, 25 mg (once daily)	100 mg, 300 mg (once daily)	10 mg (once daily)
Median follow-up time, years	3.1	2.4	4.2
Trial participants	7020	10 142	17 160
Age, mean	63.1	63.3	63.9
Women	2004 (28.5%)	3633 (35.8%)	6422 (37.4%)
Patients with established atherosclerotic cardiovascular disease	7020 (100%)	6656 (65.6%)	6974 (40.6%)
Patients with a history of heart failure	706 (10.1%)	1461 (14.4%)	1724 (10.0%)
Patients with eGFR <60 mL/min per 1.73 m ²	1819 (25.9%)	2039 (20.1%)	1265 (7.4%)

Data are n (%) unless otherwise specified. The CANVAS Program consisted of two trials, CANVAS and CANVAS-R, but are presented combined. eGFR=estimated glomerular filtration rate.

Table: Randomised controlled phase 3/4 clinical trials of sodium-glucose cotransporter-2 inhibitors

Pacientes con múltiples factores de riesgo CV

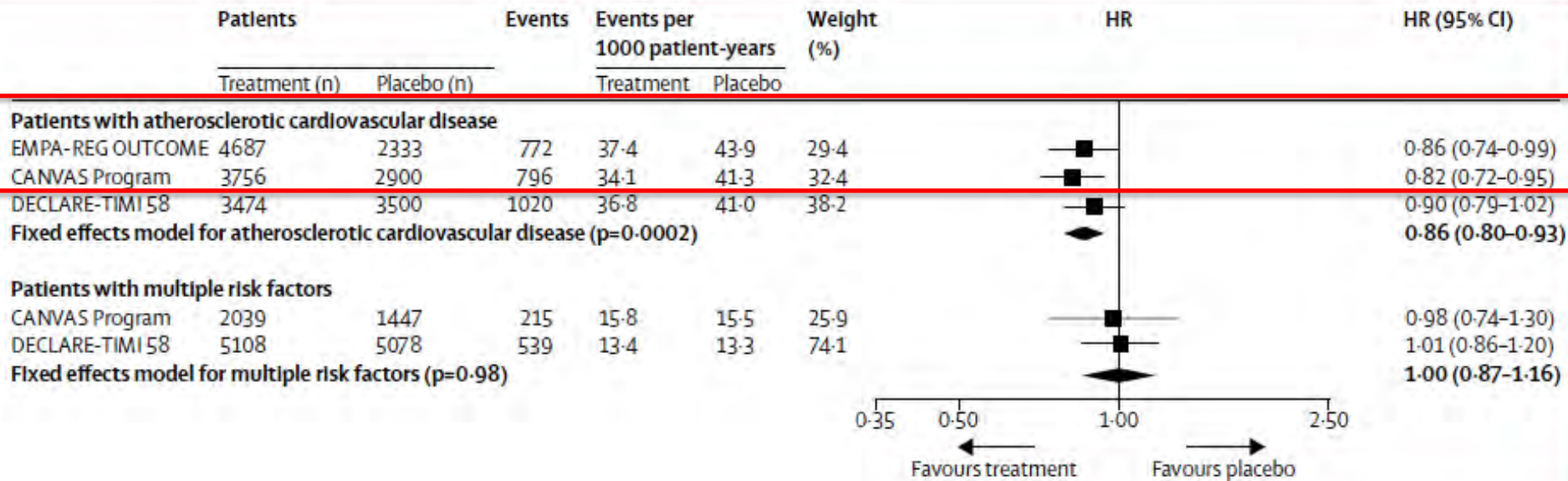
0%

34%

59%

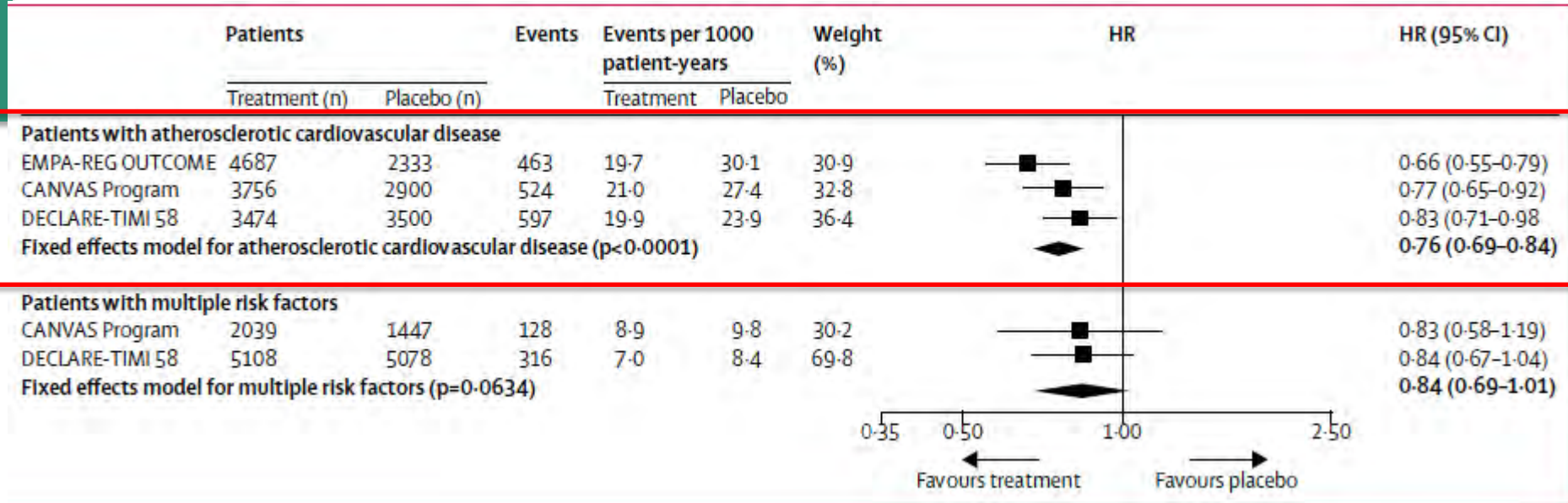
Zelniker T.A. et al. Lancet 2019; 393: 31–39c

MACE (IAM no fatal, ACV no fatal y mortalidad CV)



Empaglifozina redujo un 14% el riesgo de MACE

Hospitalización por ICC y mortalidad CV



Empaglifozina

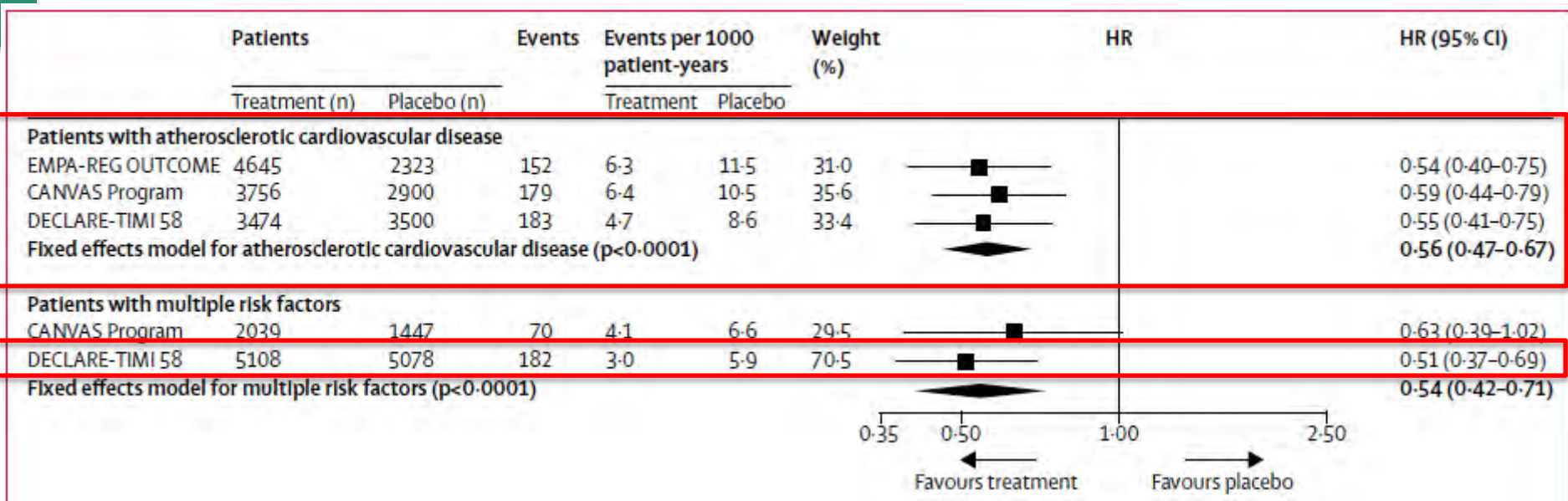
↓ un 38% la mortalidad CV

↓ riesgo de internación por ICC un 35% (HR: 0,65 [0,50-0,85]) en pacientes con o sin antecedentes de ICC

Dapaglifozina

↓ 5,8% mortalidad CV

Progresión de la Enf. Renal, ERC terminal o muerte por enfermedad renal



Empagliflozin And The Risk Of Heart Failure Hospitalization In Routine Clinical Care: A First Analysis From The Empagliflozin Comparative Effectiveness And Safety (EMPRISE) Study

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EMPRISE
EMPAGLIFLOZIN REAL-WORLD EFFECTIVENESS

Estudio en desarrollo

Evalúa riesgo de internaciones por insuficiencia cardíaca en pacientes que iniciaron tratamiento con Empagliflozina vs pacientes que iniciaron tratamiento con un iDPP4

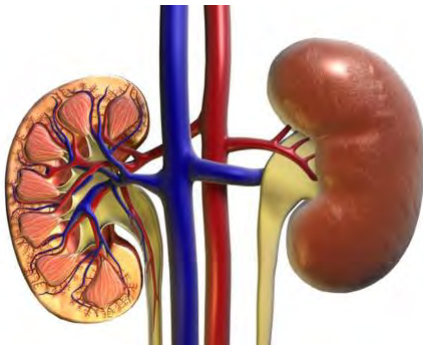
- ✓ Empagliflozina disminuyó en un 65% (HR 0,35, IC 0,20-0,61) el riesgo de internación por insuficiencia cardíaca vs iDPP4 en pacientes SIN enfermedad CV de base
- ✓ Empagliflozina disminuyó en un 47% (HR 0,53, IC 0,39-0,72) el riesgo de internación por insuficiencia cardíaca vs iDPP4 en pacientes CON enfermedad CV de base



↑
GLUCOSURIA

↓ el VEC

↑ HTO
↓ la precarga
↓ poscarga
↓ rigidez arterial
↓ presión arterial
↓ masa del VI



VC de la arteriola aferente y dilatación de la eferente

↓ de la presión intraglomerular

↓ Albuminuria
↓ Fibrosis glomerular
Retrasa la progresión de la enfermedad renal

SGLT2-i



Análogos del Receptor de GLP-1

COMUNICADOS DE PRENSA

	LEADER (10)	REWIND	PIONEER-6
Patients enrolled	9,340	9.901	3183
Drug	Liraglutide	Dulaglutida	Semaglutida (VO)
Dose	1.8 mg or max tolerated dose per day	1,5 mg/sem	14 mg/sem
Duration of follow up (years)	3.8	>5	1,5
Baseline A1C	8.7	7,3%	
Mean duration of diabetes (years)	12.8		
Baseline metformin use (%)	76		
Baseline statin use (%)	72		
Baseline prevalence of CV disease†/HF (%)	81/18	31%/	
Primary outcome, HR (95% CI)‡	3-point MACE 0.87 (0.78-0.97)		1P-MACE 0,79 (NS)
CV death, HR (95% CI)	0.78 (0.66-0.93)		0.49 (p=0,03)
Fatal or nonfatal MI, HR (95% CI)§	0.86 (0.73-1.00)		1,18 (NS)
Fatal or nonfatal stroke, HR (95% CI)§	0.86 (0.71-1.06)		0,74 (NS)
All-cause mortality, HR (95% CI)	0.85 (0.74-0.97)		0,51 (p=0,008)
HF hospitalization, HR (95% CI)	0.87 (0.73-1.05)		

DPP4i

	SAVOR TIMI 53 (Saxagliptina)	EXAMINE (Alogliptina)	TECOS (Sitagliptina)	CARMELINA (Linagliptina)
n	16.492	5380	14671	6980
Seguimiento	2,1 años	1,5 años	3	continúa
Duración de la DM	10 años	7,35 años	11	14 años
HbA1c	8%	8,12%	6,5-8%	7,9%
ASCVD	78%	90%	100%	57%
ERC		28%		74%
Mortalidad CV, IAM o ACV no fatal, internación por AI (HR)	1 (IC 0,89-1,12)	0,98 (0,86-1,12)	0,98 (0,88-1,09)	1.02 (0,89-1,17)
Internación por ICC (HR)	HR: 1,27 (IC: 1,07-1,51)	1,07 (0,79- 1,46)	1 (0,83-1,20)	

HTA

OBJETIVOS DE PA INDIVIDUALIZADO: Riesgo de ASCVD a 10 años

>15%: < 130/80 mmHg

<15%: <140/90mmHg

≥ 65 años: 140/90 mmHg

130/80 mmHg si ACV previo o IRC (<60ml/min o albuminuria)

- Control intensivo de la PAS: < 120 mmHg no redujo IAM o ACV no fatal y mortalidad CV Mayor riesgo de eventos adversos (ACCORD BP)
- SI PA > 120/80 mmHg: cambios en estilo de vida (Dieta DASH, disminuir el consumo de Na y aumentar el de K, consumo moderado de alcohol, activ. Física)

- Drogas que demostraron beneficio CV en DM: IECA, ARA2, diuréticos tiazídicos, bloqueantes cálcicos dihidropiridínicos
- Si albuminuria (relación Cr/Album urinaria ≥ 30 mg/g)
 - incluir IECA o ARA2
- Si HTA severa ($\geq 160/100$ mmHg): iniciar tratamiento combinado

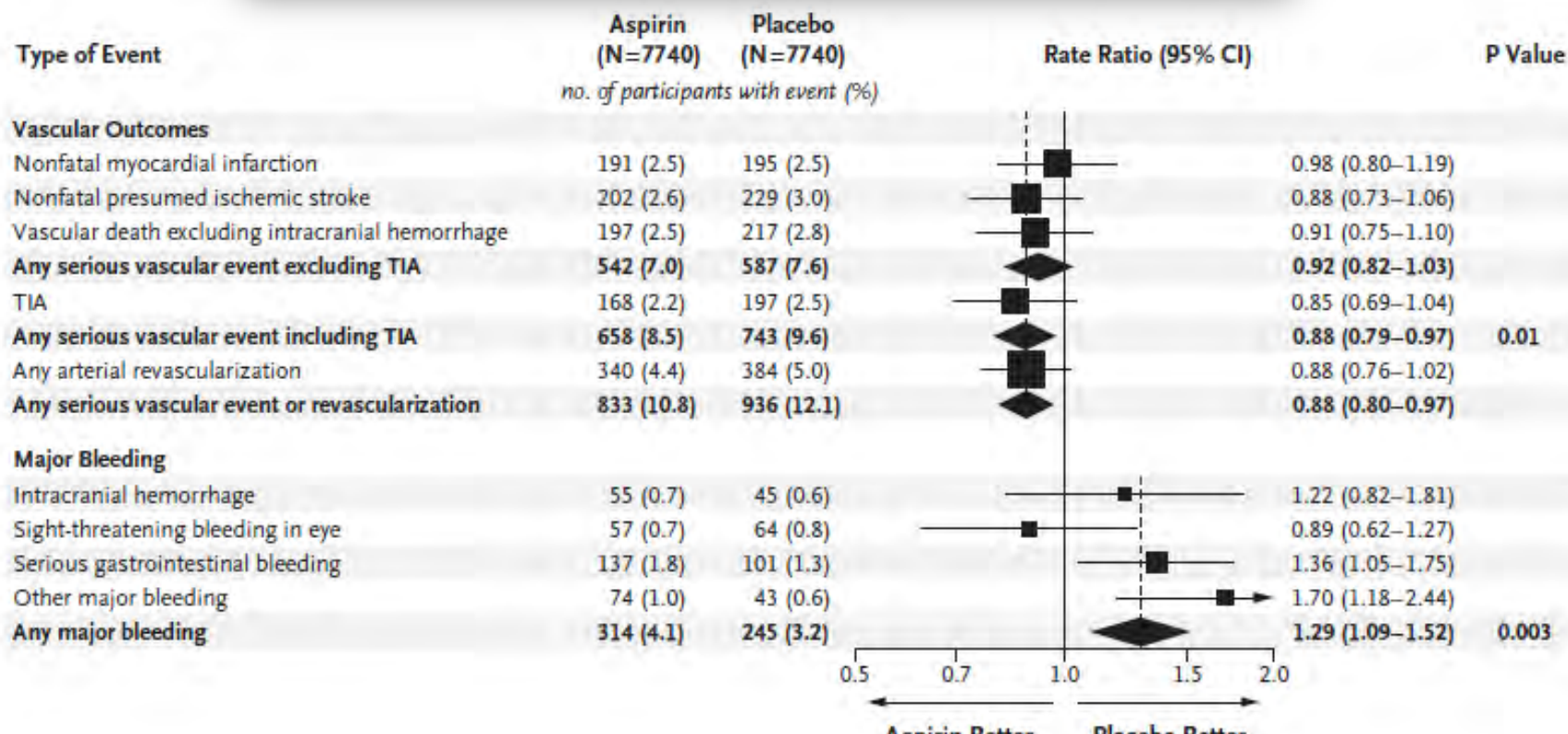
Manejo de Lípidos

Table 10.2—Recommendations for statin and combination treatment in adults with diabetes

Age	ASCVD or 10-year ASCVD risk >20%	Recommended statin intensity [^] and combination treatment [*]
<40 years	No	None [†]
	Yes	High <ul style="list-style-type: none"> • In patients with ASCVD, if LDL cholesterol ≥ 70 mg/dL despite maximally tolerated statin dose, consider adding additional LDL-lowering therapy (such as ezetimibe or PCSK9 inhibitor)[#]
≥ 40 years	No	Moderate [‡]
	Yes	High <ul style="list-style-type: none"> • In patients with ASCVD, if LDL cholesterol ≥ 70 mg/dL despite maximally tolerated statin dose, consider adding additional LDL-lowering therapy (such as ezetimibe or PCSK9 inhibitor)

Effects of Aspirin for Primary Prevention in Persons with Diabetes Mellitus

The ASCEND Study Collaborative Group*



Prevención 2ª en pacientes con antecedentes de ASCVD

Prevención 1ª: en pacientes con alto riesgo de ASCVD, luego de discutir con el paciente riesgos y beneficios

Conclusiones

- ❖ Encontrar pacientes con DM2 no diagnosticada
- ❖ Realizar tratamiento agresivo de los factores de riesgo cardiovascular
- ❖ Es la primera vez que se habla de tratamientos que, además de mejorar la glucemia, tienen un beneficio directo en la evolución de la patología CV
- ❖ Estos beneficios son independientes del efecto sobre la HbA1c
- ❖ Los cardiólogos deberían incorporar el uso de los SGLT2i y GLP1-RA en los pacientes diabéticos tipo 2 y ASCVD establecida para mejorar su evolución
- ❖ Los iDPP4 son drogas seguras a nivel cardiovascular, excepto la Saxagliptina que mostró un aumento del riesgo de internaciones por ICC

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