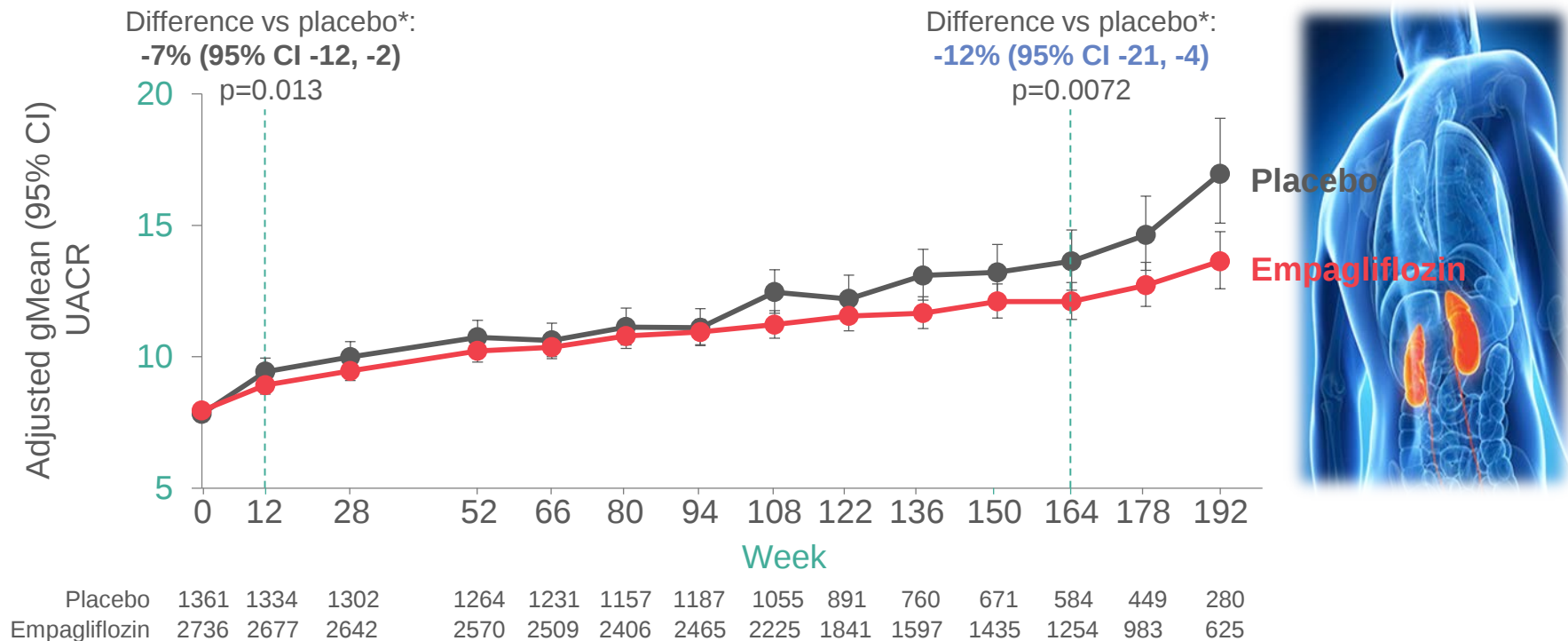
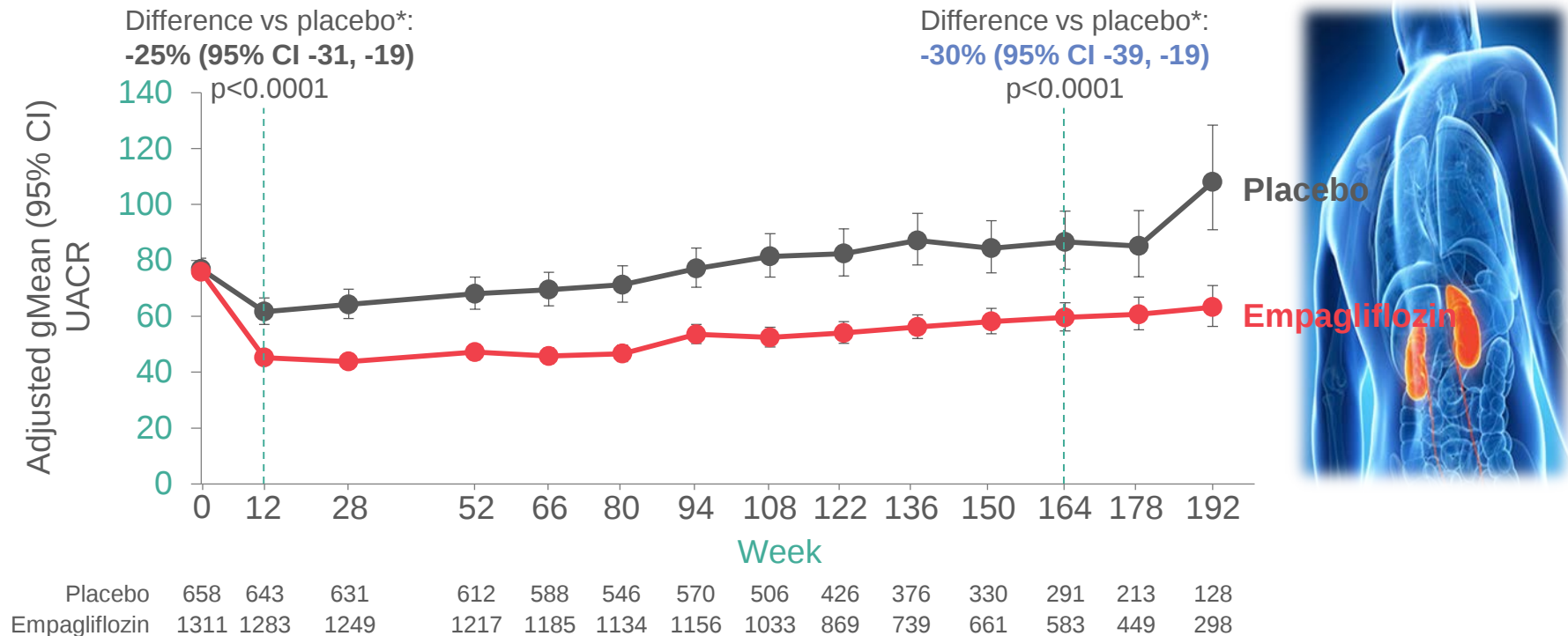


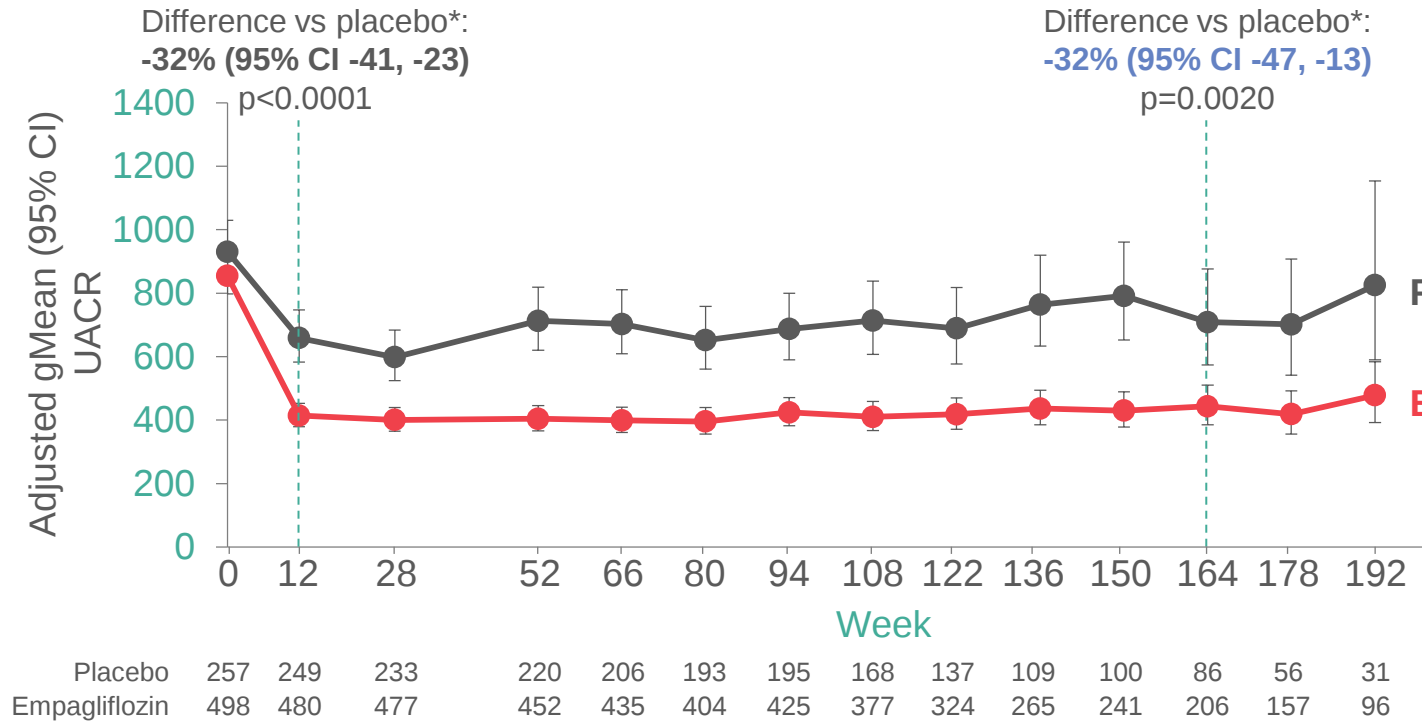
UACR over 192 weeks: Patients with **normoalbuminuria** at baseline



UACR over 192 weeks: Patients with **microalbuminuria** at baseline



UACR over 192 weeks: Patients with macroalbuminuria at baseline



Lower- Extremity Amputations



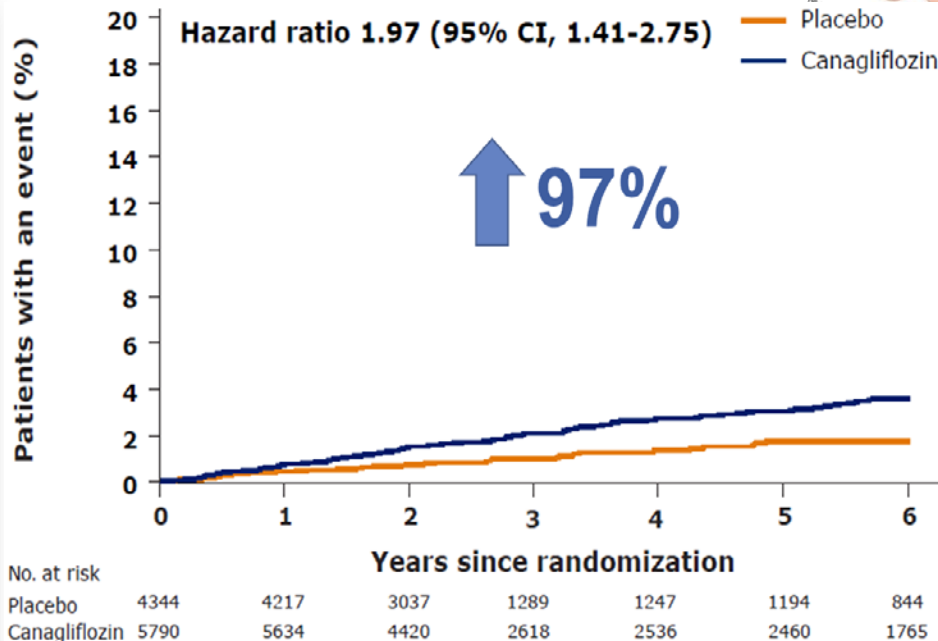
U.S. Food and Drug Administration
Protecting and Promoting Your Health

Drug Safety Communications

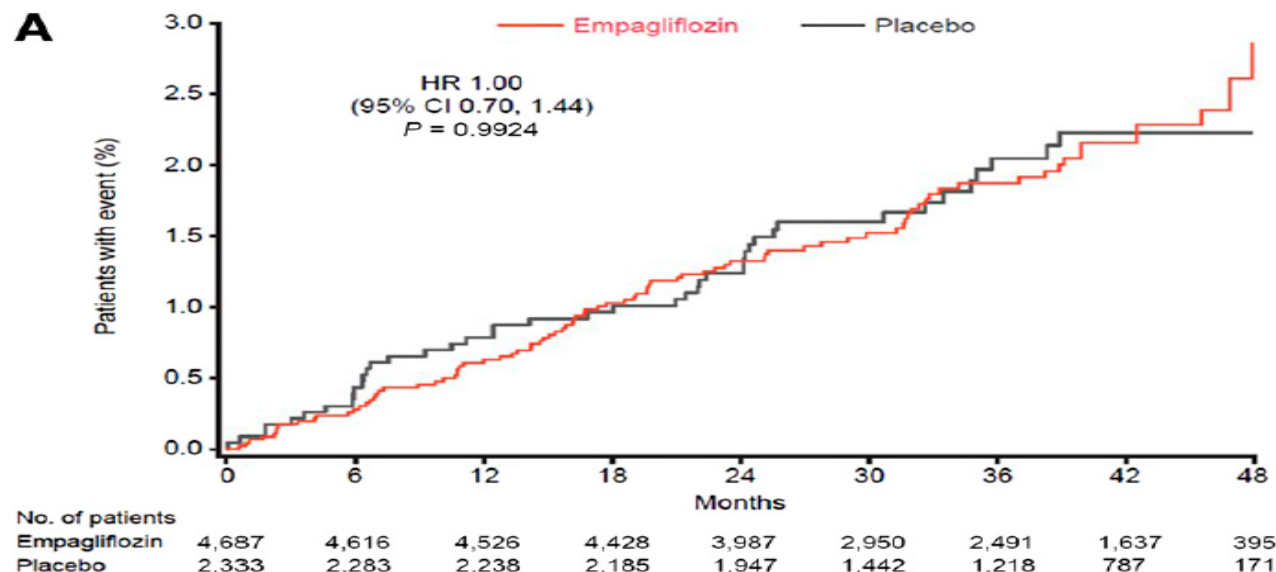
Interim clinical trial results find increased risk of leg and foot amputations, mostly affecting the toes, with the diabetes medicine canagliflozin (Invokana, Invokamet); FDA to investigate

Safety Announcement

[5-18-2016] The U.S. Food and Drug Administration (FDA) is alerting the public about interim safety results from an ongoing clinical trial that found an increase in leg and foot amputations, mostly affecting the toes, in patients treated with the diabetes medicine canagliflozin (Invokana, Invokamet). We have not determined whether canagliflozin increases the risk of leg and foot amputations. We are currently investigating this new safety issue and will update the public when we have more information.



Empagliflozin and Assessment of Lower-Limb Amputations in the EMPA-REG OUTCOME Trial



Silvio E. Inzucchi,¹ Hristo Iliev,²
Egon Pfarr,² and Bernard Zinman³

E-LIFT trial

Empa reduces liver fat in nonalcoholic fatty liver disease



Diabetes Care



Effect of Empagliflozin on Liver Fat in Patients With Type 2 Diabetes and Nonalcoholic Fatty Liver Disease: A Randomized Controlled Trial (E-LIFT Trial)

<https://doi.org/10.2337/dc18-0165>



Mohammad Shafi Kuchay,¹ Sonal Krishan,²
Sunil Kumar Mishra,¹
Khalid Jamal Farooqui,¹
Manish Kumar Singh,³ Jasjeet Singh Wasir,¹
Beena Bansal,¹ Parjeet Kaur,¹
Ganesh Jevalikar,¹ Harmendeep Kaur Gill,¹
Narendra Singh Choudhary,⁴ and
Ambrish Mithal¹

15.6 percent
between groups

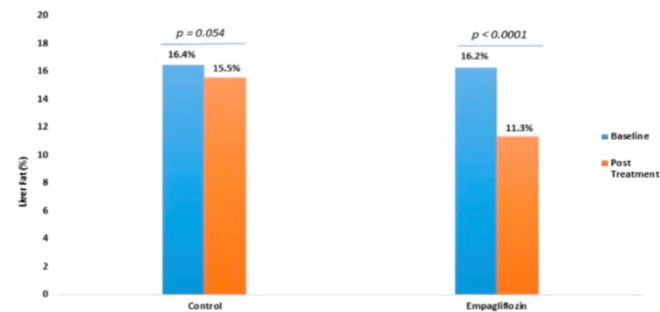


Figure 2—Baseline and posttreatment changes in liver fat in the empagliflozin and control groups as assessed by MRI-PDFF. Change in liver fat relative to baseline as assessed by MRI-PDFF. A significant difference was found in change in liver fat between the study groups ($P < 0.0001$).



as.com

14 h · 🌐

Año 2048. **Rafa Nadal**, con 62 años, gana su 40º Roland-Garros 🤖🤖

<http://ow.ly/mVk330kr0rB>

📸 <https://twitter.com/wesportfr>

The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

Empagliflozina, y Eventos Cardiovasculares en pacientes que han pagado la hipoteca o no

Subestudio del Empa-Reg Outcomes

Bernard Zinman, M.D., Christoph Wanner, M.D., John M. Lachin, Sc.D.,
David Fitchett, M.D., Erich Bluhmki, Ph.D., Stefan Hantel, Ph.D.,
Michaela Mattheus, Dipl. Biomath., Theresa Devins, Dr.P.H.,
Odd Erik Johansen, M.D., Ph.D., Hans J. Woerle, M.D., Uli C. Broedl, M.D.,
and Silvio E. Inzucchi, M.D., for the EMPA-REG OUTCOME Investigators

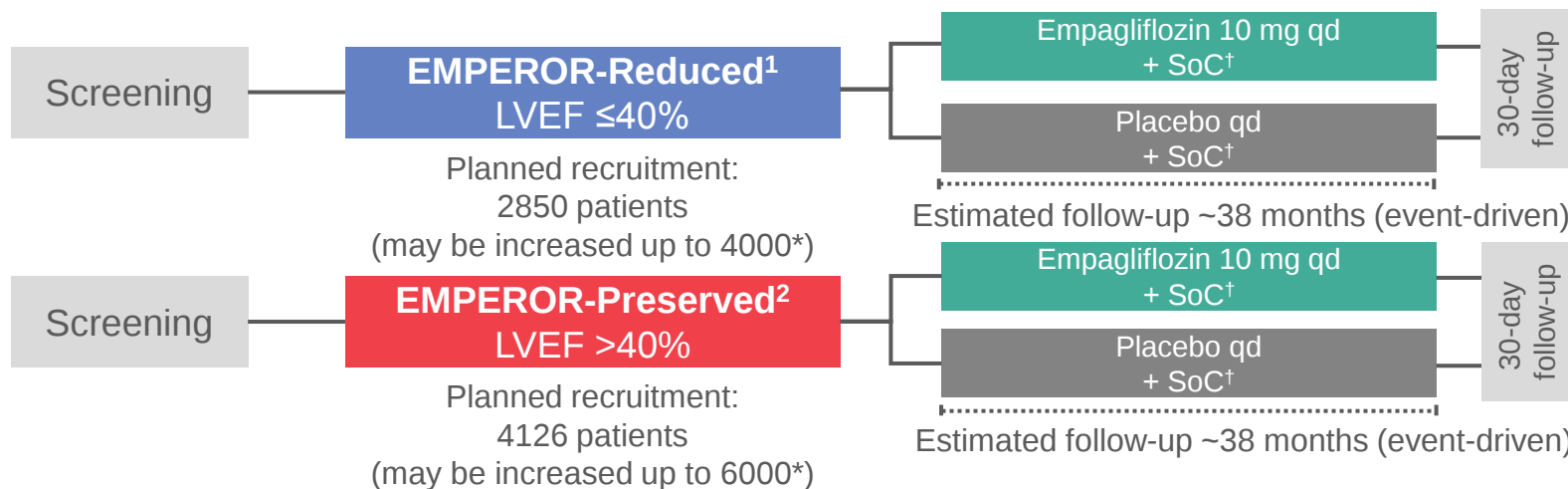
Jun 2048

👍🤖👍 3.881

154 comentarios 642 veces compartido 📸👍



- **Aim:** To investigate the **safety and efficacy of empagliflozin** versus placebo on top of guideline-directed medical therapy in patients with HF with **reduced¹** or **preserved²** ejection fraction, with/without T2D.
- **Primary Objective:** Time to first event of adjudicated CV death or adjudicated HHF.



*Based on blinded assessment of event rate; †Guideline-directed medical therapy; LVEF, left ventricular ejection fraction; NYHA, New York Heart Association; qd, once daily; SoC, standard of care; 1. ClinicalTrials.gov NCT03057977; 2. ClinicalTrials.gov NCT03057951



EMPERIAL

HEART FAILURE
STUDIES

Aim: To investigate the effects of **empagliflozin 10mg** on **exercise ability, heart failure symptoms and quality of life** in patients with chronic **heart failure** with HFrEF and HFpEF, with/without T2D.

Planned to start in March 2018

Primary Objective:
Change from
baseline to 12W in
exercise capacity
(6MWT).





EMPA-VISION

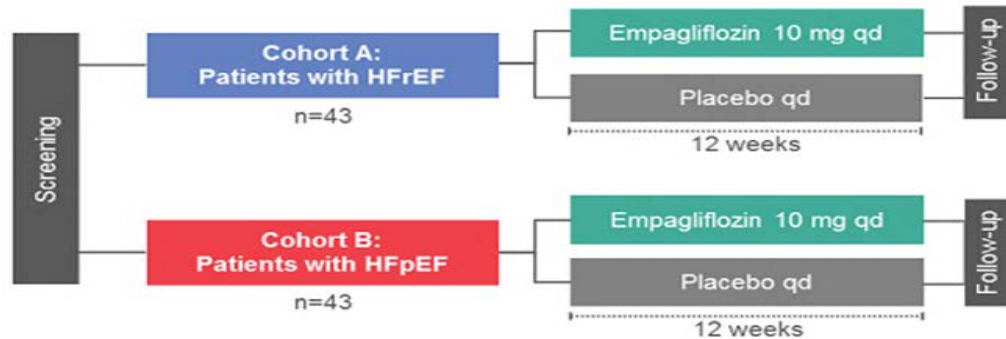
HEART FAILURE
STUDIES

Aim: To investigate the effects of **empagliflozin 10mg on cardiac energetics** in patients with chronic heart failure with reduced or preserved ejection fraction (**HFrEF and HFpEF**).

Planned to start in March 2018

Primary Objective:

Change from baseline to 12W in PCr/ATP ratio in resting state.



Boehringer Ingelheim and Lilly announce an academic collaboration with University of Oxford to investigate the effects of empagliflozin in people with chronic kidney disease

-
-

people with chronic kidney disease
explores the efficacy and safety of



chronic kidney
disease
report
Oxford
Unit

The
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investigates
outcomes
place
established

today
empagliflozin
study
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Dr Petra Kienle

ACTUALIZACION TERAPEUTICA EMPAGLIFLOZINA

@Cristob_morales

INTRO: DM2 Y ECV

EECC CLASICOS Y DE
SEGURIDAD CV EN DIABETES

NUEVAS PUBLICACIONES

GUIAS CLINICAS



GUIAS DE DIABETES



Lifestyle Management

Monotherapy Metformin

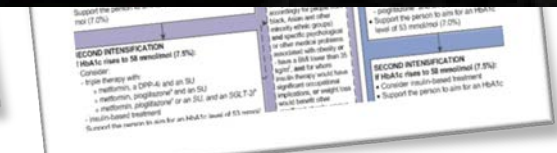
Dual Therapy Metformin + Sulfonylurea

Triple Therapy Metformin + Sulfonylurea + Insulin



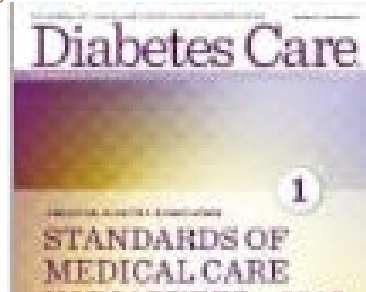
Table 1. HbA1c targets and treatment goals

HbA1c target	Treatment goal	Notes
< 6.5%	Metformin	For patients with HbA1c < 6.5%
6.5-7.0%	Metformin + Sulfonylurea	For patients with HbA1c 6.5-7.0%
7.1-8.0%	Metformin + Sulfonylurea + Insulin	For patients with HbA1c 7.1-8.0%
8.1-9.0%	Metformin + Sulfonylurea + Insulin + Third agent	For patients with HbA1c 8.1-9.0%
> 9.0%	Metformin + Sulfonylurea + Insulin + Third agent + Fourth agent	For patients with HbA1c > 9.0%



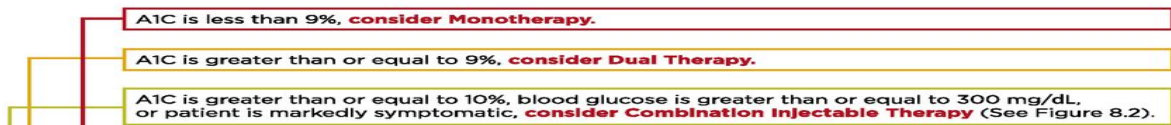
Aquí Centro de Ayuda con las Guías de Diabetes, si quieres tratar a tu paciente según ADA pulse 1, según AACE pulse 2, según SEEN pulse 3, según GDPS pulse 4, según G.Canadienses pulse 5, según SEMI pulse 6, según CardiologíaP2 pulse 7 ... etc . Si desea dejar al paciente como está cuelgue el teléfono





Antihyperglycemic Therapy in Adults with Type 2 Diabetes

At diagnosis, initiate lifestyle management, set A1C target, and initiate pharmacologic therapy based on A1C:



Monotherapy Lifestyle Management + Metformin

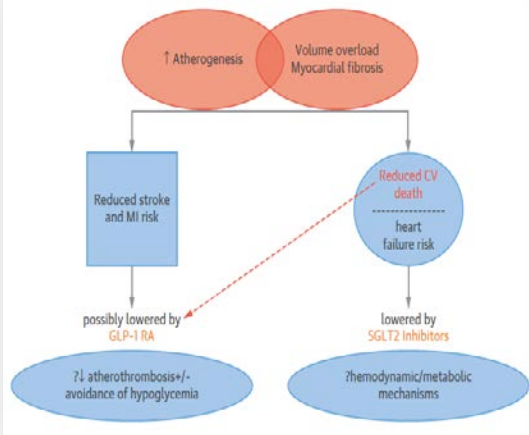
Dual Therapy

Lifestyle Management + Metformin + Additional Agent

- | | | |
|---------------|-------------|---|
| ASCVD? | Yes: | - Add agent proven to reduce major adverse cardiovascular events and/or cardiovascular mortality (see recommendations with * on p. S75 and Table 8.1) |
| | No: | - Add second agent after consideration of drug-specific effects and patient factors (See Table 8.1) |

AI
A:
2C

		Efficacy*	Hypoglycemia	Weight Change	CV Effects		Cost	Oral/SQ	Renal Effects		Additional Considerations
					ASCVD	CHF			Progression of DKD	Dosing/Use considerations	
Metformin		High	No	Neutral (Potential for Modest Loss)	Potential Benefit	Neutral	Low	Oral	Neutral	Contraindicated with eGFR <30	- Gastrointestinal side effects common (diarrhea, nausea) - Potential for B12 deficiency
SGLT-2 Inhibitors		Intermediate	No	Loss	Benefit: canagliflozin, empagliflozin†	Benefit: canagliflozin, empagliflozin	High	Oral	Benefit: canagliflozin, empagliflozin	- Canagliflozin: not recommended with eGFR <45 - Dapagliflozin: not recommended with eGFR <60; contraindicated with eGFR <30 - Empagliflozin: contraindicated with eGFR <30	FDA Black Box: Risk of amputation (canagliflozin) - Risk of bone fractures (canagliflozin) - DKA risk (all agents, rare in T2DM) - Genitourinary infections - Risk of volume depletion, hypotension ↑LDL cholesterol
GLP-1 RAs		High	No	Loss	Neutral: lixisenatide, exenatide extended release Benefit: liraglutide†	Neutral	High	SQ	Benefit: liraglutide	- Exenatide: not indicated with eGFR <30 - Lixisenatide: caution with eGFR <30 - Increased risk of side effects in patients with renal impairment	FDA Black Box: Risk of thyroid C-cell tumors (liraglutide, albiglutide, dulaglutide, exenatide extended release) - Gastrointestinal side effects common (nausea, vomiting, diarrhea) - Injection site reactions ↑Acute pancreatitis risk
DPP-4 Inhibitors		Intermediate	No	Neutral	Neutral	Potential Risk: saxagliptin, alogliptin	High	Oral	Neutral	Renal dose adjustment required; can be used in renal impairment	- Potential risk of acute pancreatitis - Joint pain
Thiazolidinediones		High	No	Gain	Potential Benefit: pioglitazone	Increased Risk	Low	Oral	Neutral	- No dose adjustment required - Generally not recommended in renal impairment due to potential for fluid retention	FDA Black Box: Congestive heart failure (pioglitazone, rosiglitazone) - Fluid retention (edema; heart failure) - Benefit in NASH - Risk of bone fractures - Bladder cancer (pioglitazone) ↑LDL cholesterol (rosiglitazone)
Sulfonylureas (2nd Generation)		High	Yes	Gain	Neutral	Neutral	Low	Oral	Neutral	- Gliburide: not recommended - Glipizide & glimepiride: initiate conservatively to avoid hypoglycemia	FDA Special Warning on increased risk of cardiovascular mortality based on studies of an older sulfonylurea (tolbutamide)
Insulin	Human Insulin	Highest	Yes	Gain	Neutral	Neutral	Low	SQ	Neutral	Lower insulin doses required with a decrease in eGFR; titrate per clinical response	- Injection site reactions - Higher risk of hypoglycemia with human insulin (NPH or premixed formulations) vs. analogs
	Analog						High	SQ			



CENTRAL ILLUSTRATION Novel Paradigm for Care of the Patient With CV Disease and T2DM

Patient with established cardiovascular (CV) disease but no prior Type 2 diabetes mellitus (T2DM):
Cardiologist to perform routine, systematic measurement of HbA1c to evaluate presence of T2DM

And/or

Eligible patients with CV disease and prior T2DM

Consider recommending treatments if no contraindication:



**SGLT2 inhibitor:
empagliflozin**

Decreased CV mortality and
decreased heart failure hospitalizations
+ Decreased blood glucose
+ Promotes weight loss
+ Renal benefits

or

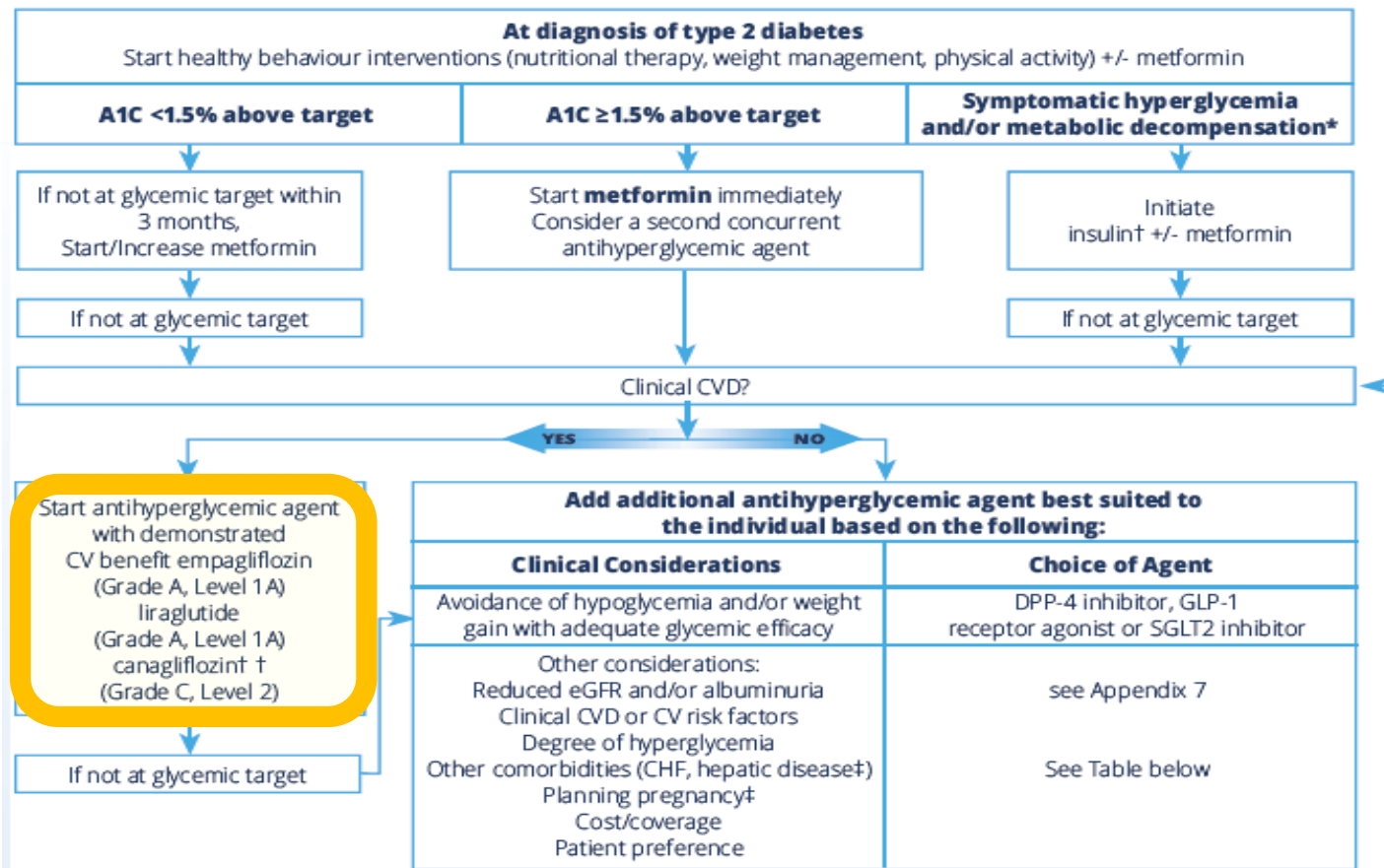


**GLP-1 receptor agonist:
liraglutide**

Decreased CV mortality
+ Decreased blood glucose
+ Promotes weight loss
+ Potential renal benefits

Refer to primary care physician or endocrinologist

Follow CV and T2DM progress in tandem



*Canadian Diabetes Association Treatment Guidelines updated to include CV risk reduction information for Empagliflozin and Liraglutide, 2018

Directos online SECardiología 28 de noviembre 19:00 h

Tratamiento de la DM2 en prevención secundaria

Tratamiento de la DM2 en prevención secundaria

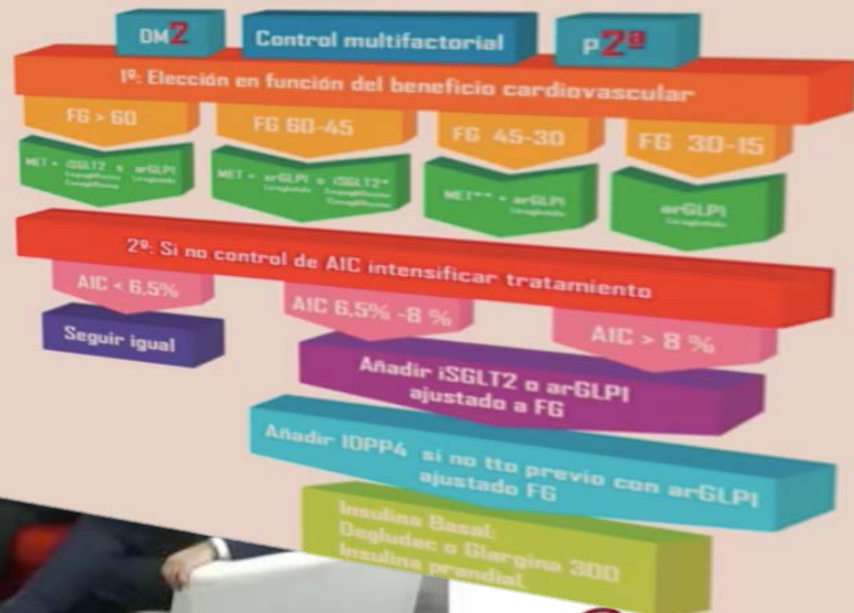


MÁS VÍDEOS



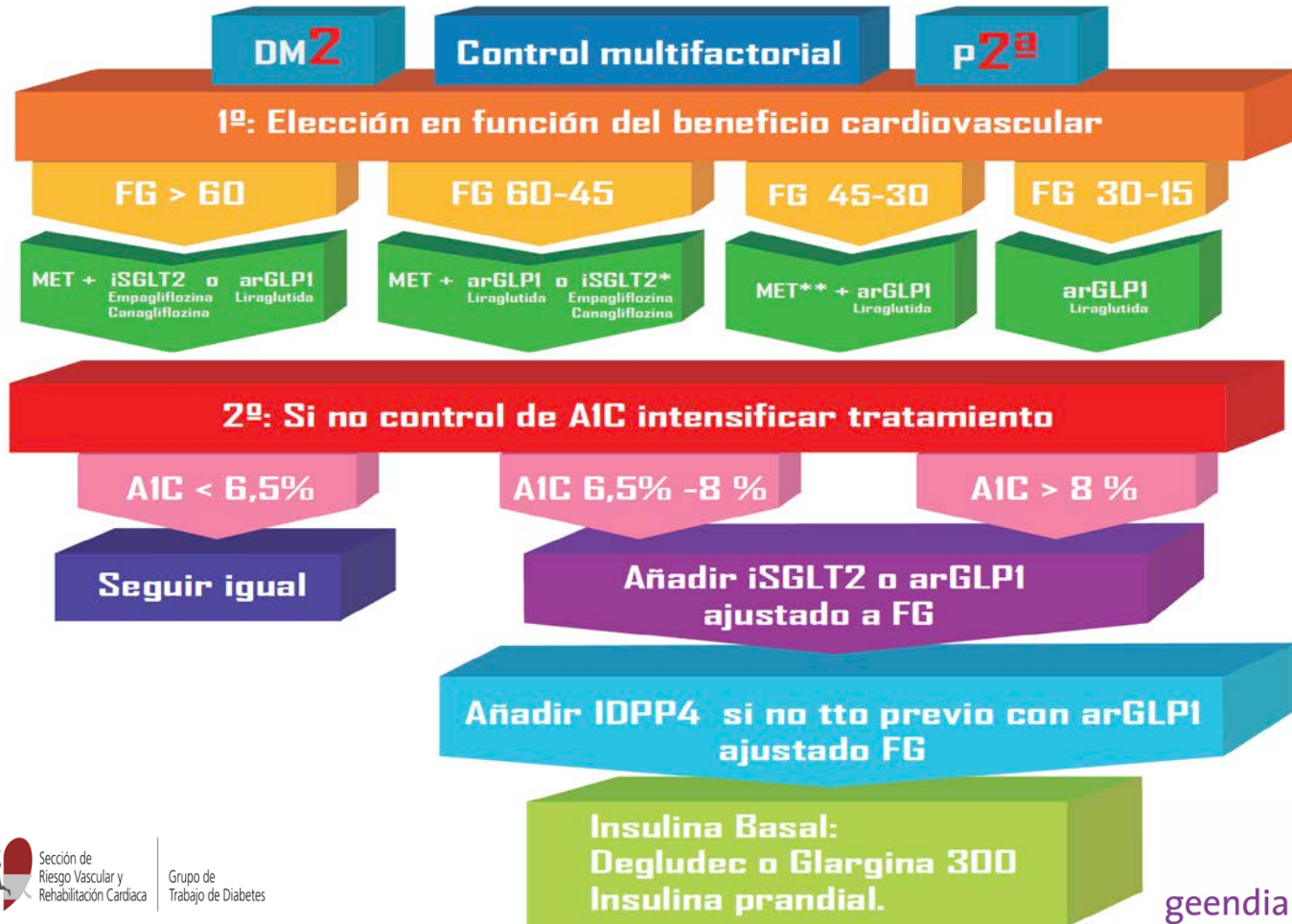
SOCIEDAD
ESPAÑOLA DE
CARDIOLOGÍA

Tratamiento de la DM2 en Prevención Secundaria



SOCIEDAD
ESPAÑOLA DE
CARDIOLOGÍA

Tratamiento de la DM2 en Prevención Secundaria





SEEN

Sociedad Española de
Endocrinología y Nutrición

DOCUMENTO DE ABORDAJE INTEGRAL DE LA DIABETES TIPO 2

GRUPO DE TRABAJO DE DIABETES MELLITUS DE LA SOCIEDAD ESPAÑOLA DE ENDOCRINOLOGÍA Y NUTRICIÓN

REBECA REYES-GARCÍA*

ÓSCAR MORENO-PÉREZ*

CRISTINA TEJERA-PÉREZ

DIEGO FERNÁNDEZ-GARCÍA

VIRGINIA BELLIDO-CASTAÑEDA

MARTÍN LÓPEZ DE LA TORRE CASARES

PEDRO ROZAS-MORENO

JOSÉ CARLOS FERNÁNDEZ-GARCÍA

AMPARO MARCO MARTÍNEZ

JAVIER ESCALADA-SAN MARTÍN

MANUEL GARGALLO-FERNÁNDEZ

MANUEL BOTANA-LÓPEZ

JUDITH LÓPEZ-FERNÁNDEZ

JOSE MIGUEL GONZÁLEZ-CLEMENTE

ESTEBAN JÓDAR-GIMENO

PEDRO MEZQUITA-RAYA

EN REPRESENTACIÓN DEL GRUPO DE DIABETES — SEEN