

¿Tienen interés clínico las diferencias de clase entre los fármacos DPP4i?

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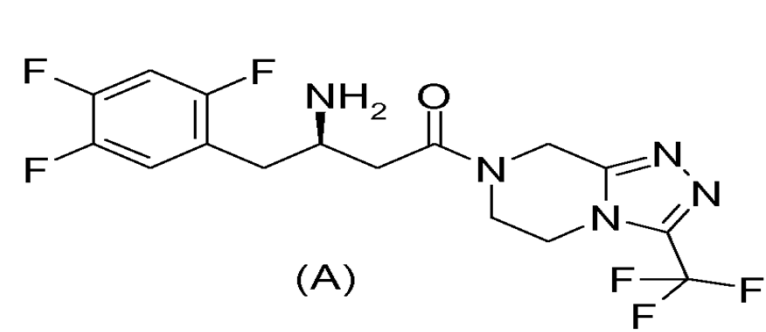


**Hospital General Universitario
GREGORIO MARAÑÓN**



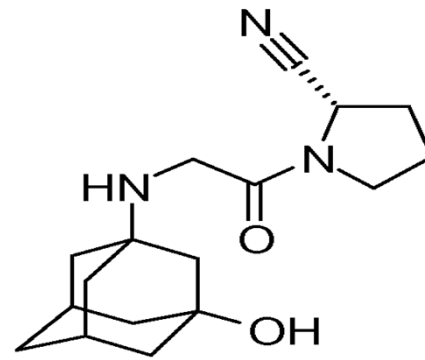
Junio 2017

DPP-4 Inh.

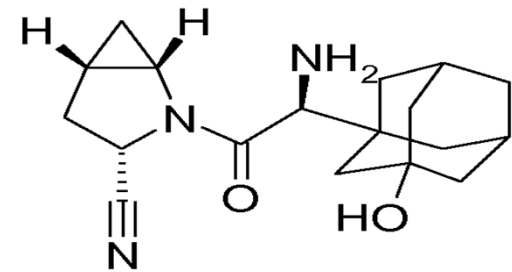


Sitagliptin

2007

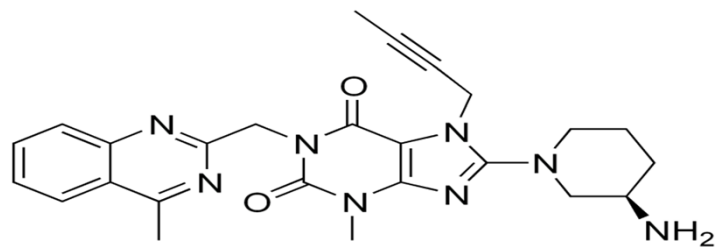


Vildagliptin



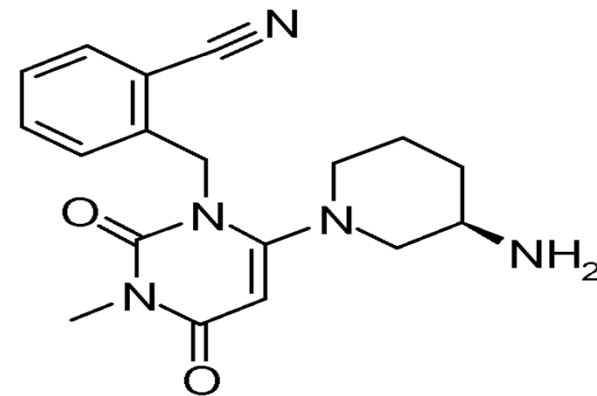
2009

Saxagliptin



Linagliptin

2011



Alogliptin

2013

Fechas de autorización de IDPP-4

DPP4i (aspectos comunes reflejados en Meta-Análisis)

- Mecanismo incretínico con reducción de glucosa postprandial y en menor grado de la basal con A1C reducción media: -0.74 (-0.85 to -0.62)
- Efecto neutro en peso y lípidos
- Antidiabéticos no inductores de hipoglucemia (similar a placebo)
- Efectos adversos raros (ADA 2017)
- Asentados en práctica clínica (experiencia de uso en mundo real)

Guia de Diabetes tipo 2 de la ADA 2017

Start with Monotherapy unless

A1C is greater than or equal to 9%, **consider Dual Therapy.**

A1C is greater than or equal to 10%, blood glucose is greater than or equal to 300 mg/dL, or patient is markedly symptomatic, **consider Combination Injectable Therapy** (See Figure 8.2).

Monotherapy

Metformin

EFFICACY*	high
HYPO RISK	low risk
WEIGHT	neutral/loss
SIDE EFFECTS	GI/lactic acidosis
COSTS*	low

If A1C target not achieved after approximately 3 months of monotherapy, consider combination therapy. *Choice dependent on patient characteristics.

Lifestyle Management

Dual Therapy

Metformin +

	Sulfonylurea	Thiazolidinedione
EFFICACY*	high	high
HYPO RISK	moderate risk	low risk
WEIGHT	gain	gain
SIDE EFFECTS	hypoglycemia	edema, HF, fxs
COSTS*	low	low

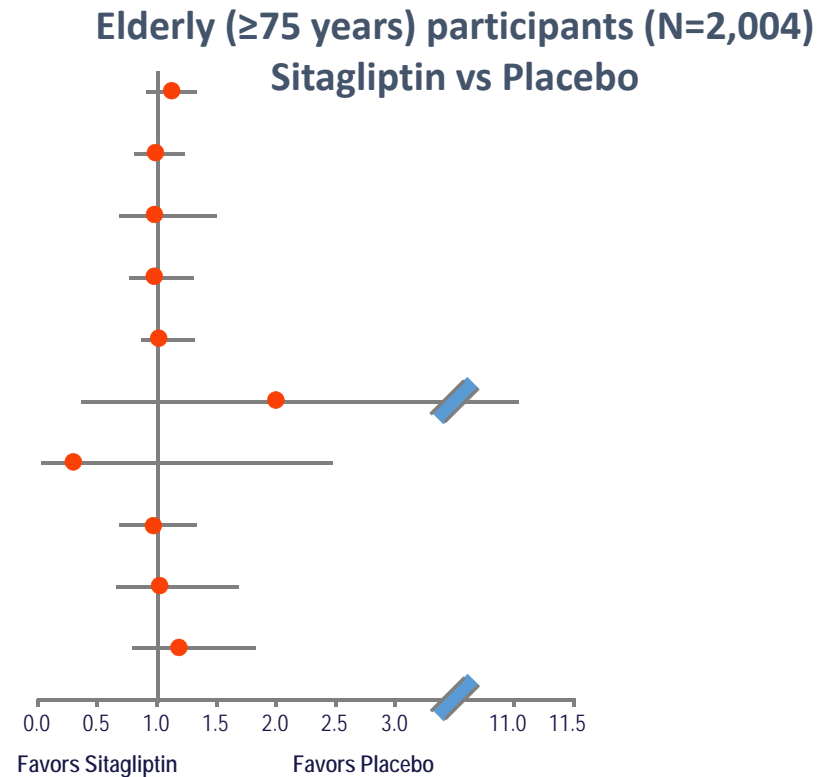
If A1C target not achieved after approximately 3 months of dual therapy, consider combination injectable therapy. *Choice dependent on patient characteristics.

DPP-4 Inhibitor

EFFICACY*	intermediate
HYPO RISK	low risk
WEIGHT	neutral
SIDE EFFECTS	rare
COSTS*	high

Ancianos y DPP4i

Outcome	HR (95% CI)	Pvalue
4-point MACE	1.10 (0.89, 1.36)	0.40
3-point MACE	1.01 (0.81, 1.26)	0.94
Hospitalization for heart failure	0.99 (0.65, 1.49)	0.94
Hospitalization for heart failure or death	1.00 (0.77, 1.29)	0.99
All-cause mortality	1.05 (0.83, 1.32)	0.71
Pancreatitis	2.01 (0.36, 11.04)	0.42
Pancreatic malignancy	0.28 (0.03, 2.50)	0.25
Overall malignancy	0.95 (0.67, 1.36)	0.78
Severe hypoglycemia	1.03 (0.62, 1.71)	0.92
Bone fracture	1.21 (0.78, 1.85)	0.40



TECOS CV Safety Trial: Primary and Key Secondary Outcomes in the Elderly vs Nonelderly Cohorts

Bethel MA et al. Assessing the Safety of Sitagliptin in Older Participants in the Trial Evaluating Cardiovascular Outcomes with Sitagliptin (TECOS). Diabetes Care 2017

Riesgo de fracturas y uso de i-DPP-4

Exposure	No. of cases (N = 229 145) [†]	No. of controls (N = 229 145) [†]	Crude OR (95% CI)	Adjusted OR (95% CI) ([‡])
Never NIAD use	217 623	218 194	1.03 (0.99–1.06)	1.10 (1.06–1.14)
Past NIAD use	3631	2815	1.33 (1.25–1.41)	1.12 (1.05–1.20)
Current NIAD use	6993	7209	Reference	Reference
excluding incretin use				
Distant DPP4-I use (>365 days before the index date)	112	121	0.95 (0.74–1.24)	0.95 (0.72–1.25)
Past DPP4-I use (183–365 days before index date)	181	186	1.00 (0.81–1.23)	0.96 (0.77–1.20)
Recent DPP4-I use (92–182 days before the index date)	131	168	0.80 (0.64–1.01)	0.76 (0.59–0.97)*
Current DPP4-I use (1–91 days before the index date)	219	232	0.97 (0.81–1.17)	0.97 (0.79–1.18)
<i>By sex</i>				
Males	103	94	1.10 (0.83–1.46)	1.14 (0.84–1.54)
Females	116	138	0.88 (0.69–1.13)	0.86 (0.66–1.12)
<i>By age on index date</i>				
<50 years	17	14	1.19 (0.58–2.47)	1.16 (0.54–2.50)
50–59 years	50	51	1.07 (0.71–1.61)	1.06 (0.68–1.64)
60–69 years	64	65	0.97 (0.68–1.39)	0.97 (0.67–1.42)
70–79 years	49	58	0.83 (0.56–1.22)	0.89 (0.59–1.36)
80 + years	39	44	0.96 (0.62–1.48)	0.92 (0.58–1.44)

No existió aumento de riesgo con iDPP-4

Abbreviations: OR: odds ratio; CI: confidence interval, DPP4-I: dipeptidyl peptidase 4 inhibitor; GLP-1 RA: glucagon-like peptide-1 receptor agonist.

Never NIAD use: no NIAD prescription before the index date.

Past NIAD use: most recent NIAD prescription over 91 days before index date.

Current NIAD use: most recent NIAD prescription within 91 days before index date.

*Statistically significant ($P < 0.05$).

[†]The numbers do not sum to the total number of fractures because GLP-1 RA exposure is not shown.

[‡]Adjusted for history of cancer, COPD, fracture, alcoholism, rheumatoid arthritis, secondary osteoporosis, hyperthyroidism, retinopathy, neuropathy, heart failure and use of GLP-1 RA, glucocorticoids, statins, anxiolytics, hypnotics, antidepressants, antipsychotics, anti-Parkinson drugs, beta-blockers, thiazide diuretics, RAAS inhibitors, loop diuretics and antiarrhythmics.

Dipeptidyl Peptidase-4 Inhibitors, Peripheral Arterial Disease, and Lower Extremity Amputation Risk in Diabetic Patients



Chun-Chin Chang, MD,^{a,b,c} Yung-Tai Chen, MD,^{c,d} Chien-Yi Hsu, MD,^{b,c,e} Yu-Wen Su, MD,^f Chun-Chih Chiu, MD,^{b,g}

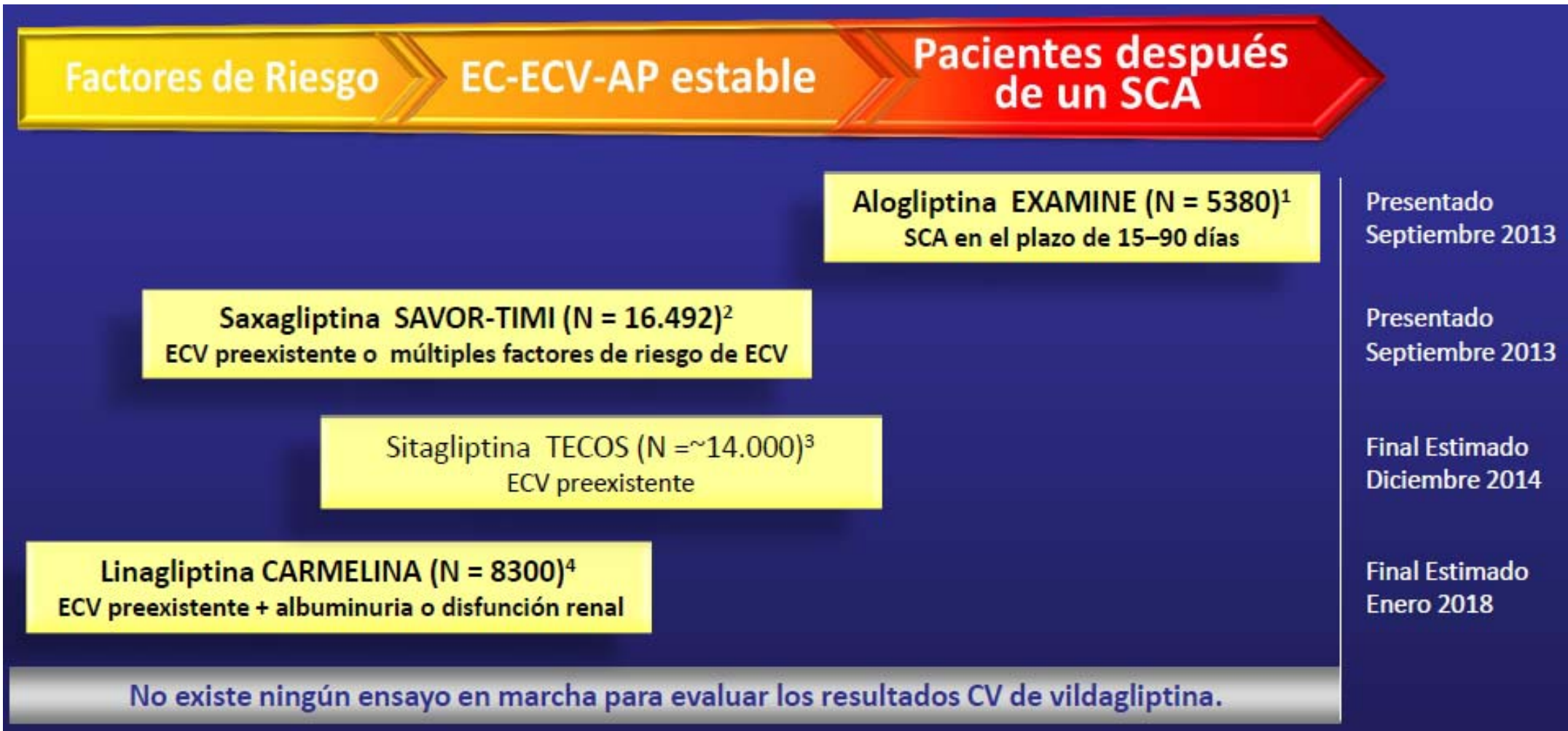
Amputation for peripheral arterial disease as outcome	169	255,277	0.662	252	248,396	1.015	0.65 (0.54-0.79)	<.001
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CI = confidence interval; DPP-4i = dipeptidyl peptidase-4 inhibitor.
*Per 10³ person-years.

CONCLUSIONS: This large-scale nationwide population-based cohort study is the first to demonstrate that treatment with DPP-4 inhibitors is associated with lower risk of peripheral arterial disease occurrence and limb amputation in patients with type 2 diabetes mellitus.

- *The American Journal of Medicine* (2017) 130, 348-355

Ensayos con DPP-4i en seguridad cardiovascular



The image is a composite of several video call windows and a central Venn diagram. The Venn diagram consists of several overlapping circles, each labeled with a medical condition:

- Diabetes** (light green circle)
- Hipertension** (orange circle)
- Enf. Renal** (purple circle)
- I. Cardíaca** (orange circle)
- Enf Coronaria crónica** (orange circle)
- Dislipidemia** (dark blue circle)
- Ictus** (orange circle)
- IAM** (orange circle)

The video call windows show various individuals in clinical or hospital settings, some with question mark icons in the bottom left corner. The background of the video windows includes hospital beds, medical equipment, and clinical corridors.



Original Article

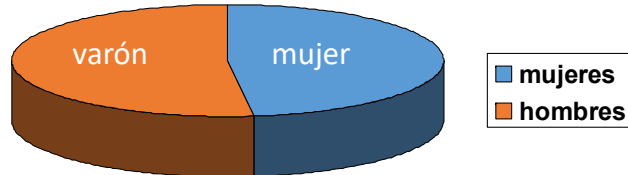
Hyperglycemia management in patients admitted to internal medicine in Spain: A point-prevalence survey examining adequacy of glycemic control and guideline adherence

Hospitalización del paciente con DM2 en M.Interna

Pacientes con DM Hospitalizados en Servicios de Med. Interna

Perfil medio

N: 1000



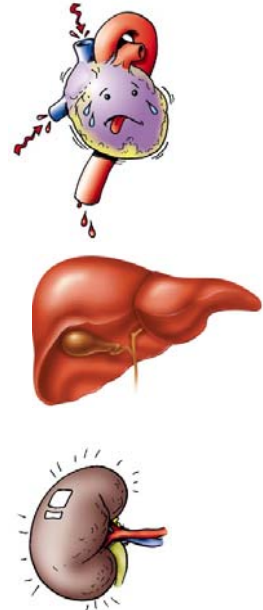
30 - 40% de los pacientes en M.I.

- Edad media 76 años (76 - 85)
- Duracion DM 10.9 años, Tipo 2 (94 %)
- Estancia Hospitalaria: 12,1 dias
- A1c disponible 56.3% (average 7,1%)
- Comorbilidad (Media Charlson 4)
- FG 61,3 ml/m (> 60 ml/m 44%)

Seguridad y Comorbilidad

Principales diferencias entre iDPP-4

	Sitagliptina ¹	Vildagliptina ²	Saxagliptina ³	Linagliptina ⁴	Alogliptina ⁵
Seguridad Cardiovascular a Largo Plazo	TECOS: No Inferioridad	Estudio NO Realizado	SAVOR-TIMI 53: No Inferioridad	Pendiente de Resultados	EXAMINE: No Inferioridad
Hospitalización por Insuficiencia Cardíaca	Hazard Ratio: 0.98 (0.81-1.19)	Estudio NO Realizado	Hazard Ratio: 1.27 (1.07-1.51)	Pendiente de Resultados	Hazard Ratio: 1.19 (0.90-1.58)
Uso en insuficiencia hepática leve y moderada	Sí	No debe usarse, incluyendo pacientes con ALT o AST > 3 LSN pre-tratamiento	Sí, precaución en insuf, hepática moderada	Sí, pero falta experiencia clínica	Sí
Uso en insuficiencia hepática severa	No estudiada, tener precaución	No debe usarse, incluyendo pacientes con ALT o AST > 3 LSN pre-tratamiento	No recomendado	Sí, pero falta experiencia clínica	No recomendado
Uso en insuficiencia renal leve /moderada	Sí *	Sí *	Sí *	Sí	Sí *
Uso en insuficiencia renal severa	Sí *	Sí *	Sí *	Sí	Sí* Experiencia limitada
Uso en Insuficiencia Renal Terminal (ESRD)/ Hemodiálisis (HD)	Sí *	Sí, precaución / limitada experiencia en HD, ESRD: *	No recomendado	Sí	Sí* Experiencia limitada
Uso en ancianos >65 años	Sí	Sí	Sí	Sí, pero falta experiencia > 80 años	Sí, precaución insuf, renal
Autorización EMA/FDA	EMA/FDA	EMA	EMA/FDA	EMA/FDA	EMA/FDA
Indicaciones de uso #	7	6	6	4	5



Diabetes e Insufficiencia Cardiaca

Diabetes and Heart Failure

As many as 50% of patients with type 2 diabetes may develop heart failure (112).



European Journal of Heart Failure (2017) 19, 43–53
doi:10.1002/ejhf.633

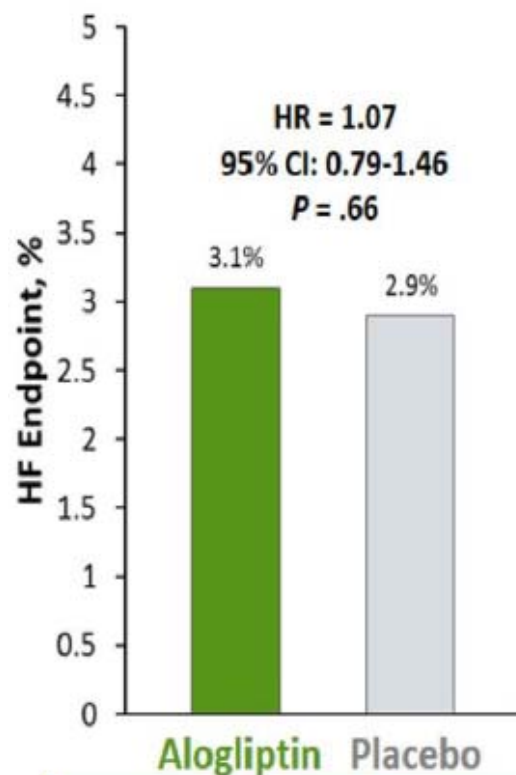
REVIEW

Heart failure outcomes in clinical trials of glucose-lowering agents in patients with diabetes

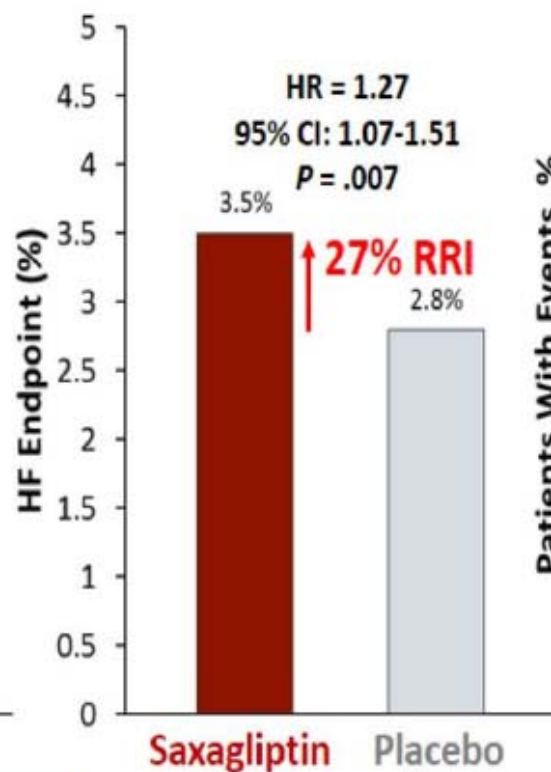
David H. Fitchett^{1*}, Jacob A. Udell², and Silvio E. Inzucchi³

HOSPITALIZACIÓN POR IC

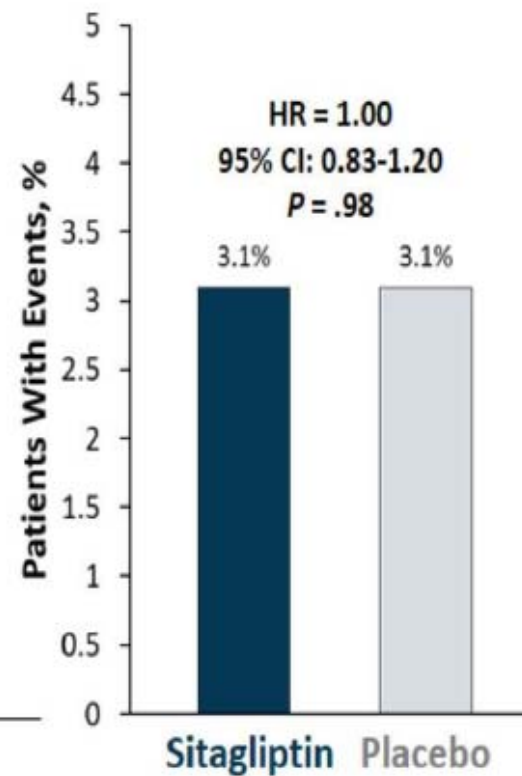
EXAMINE^[a]



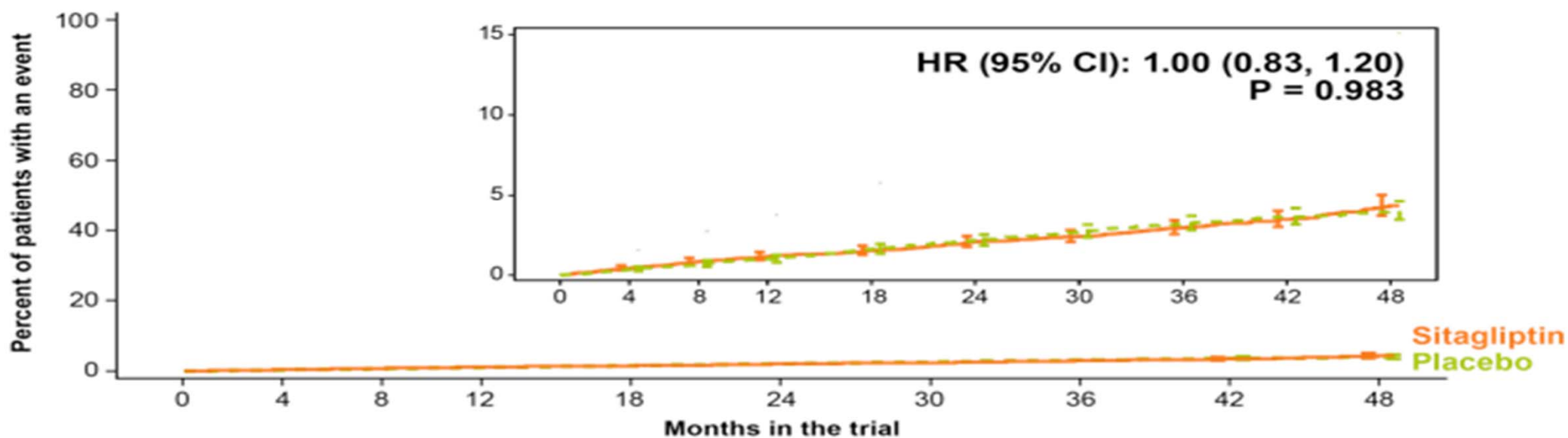
SAVOR-TIMI 53^[b]



TECOS^[c]



Hospitalización por IC (sitagliptina Estudio TECOS)








Patients at risk:

Sitagliptin	7,332	7,189	7,036	6,917	6,780	6,619	4,728	3,515	2,175	1,324
Placebo	7,339	7,204	7,025	6,903	6,712	6,549	4,599	3,443	2,131	1,315

* Adjusted for history of heart failure at baseline

Green JB et al. NEJM 2015; DOI: 10.1056/NEJMoa1501352

Seguridad Cardiovascular respecto a IC de los iDPP4

Molécula	Estudio	Objetivo 1º MACE	↑ Hospitalización Insuf. Cardíaca
 Sitagliptina	TECOS ¹	No inferioridad MACE	Seguridad confirmada
 Vildagliptina	NO realizado	NO realizado	No realizado
 Saxagliptina	SAVOR-TIMI	No inferioridad MACE	AUMENTA ↑27% P=0.007
 Linagliptina	CAROLINA CARMELINA ³	Pendiente de resultados	Pendiente resultados
 Alogliptina	EXAMINE	No inferioridad MACE	No inferioridad

“At the present time these data suggest that if a DPP-4 inhibitor is to be used in type 2 diabetic patients with HF, sitagliptin would be the one to use”.

Harold Lebovitz Heart Failure: A Major Cardiovascular Complication of Diabetes Mellitus. Current Diabetes Reports Dec 2016



Tratamiento antidiabético en paciente con IR

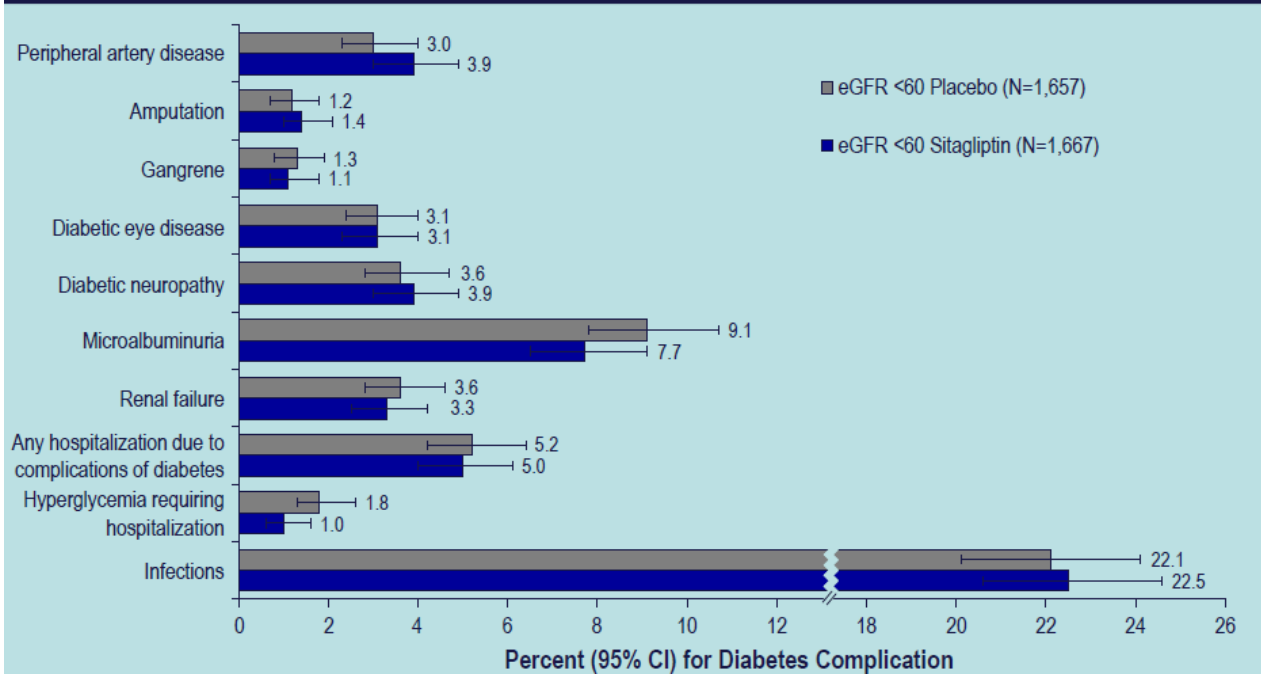
FG (ml/min/1.73m²)

■ Contraindicado
 ▨ No recomendado
 ■ Precaución/ experiencia limitada
 ■ Seguro

Estadio ERC	5					4		3		2		1
	Diálisis	<15	15-29	30-59		60-89		>90				
Metformina ¹	Contraindicado			Seguro								
Linagliptina	5 mg											
Saxagliptina ²	Contraindicado	2.5 mg					Precaución/ experiencia limitada		5 mg			
Sitagliptina	25 mg		50 mg		Precaución/ experiencia limitada		100 mg					
Vildagliptina ³	Precaución/ experiencia limitada		50 mg		Precaución/ experiencia limitada		50 mg bid					
Alogliptina ⁴	Precaución/ experiencia limitada		6,25 mg		12,5 mg		Precaución/ experiencia limitada		25 mg			

Eventos en estudio TECOS (sitagliptin vs placebo) según Filtrado Glomerular

Incidence of diabetes complications for treatment groups in CKD participants



Safety and Efficacy of Incretin-Based Therapies in Patients With Type 2 Diabetes Mellitus and CKD: A Systematic Review and Meta-analysis

Patricia M. Howse, BSc,¹ Lyudmila N. Chibrikova, PhD,² Laurie K. Twells, PhD,^{1,2}
Brendan J. Barrett, MD, MSc, FRCPC,¹ and John-Michael Gamble, PhD²

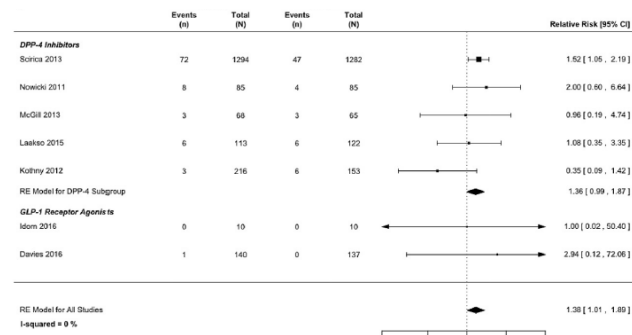
Background: The pharmacokinetics and pharmacodynamics of antidiabetic therapies for patients with type 2 diabetes are often altered in the context of chronic kidney disease (CKD).

Study Design: Systematic review and meta-analysis.

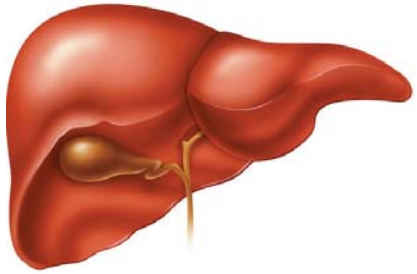
Setting & Population: Patients with type 2 diabetes and CKD.

Selection Criteria for Studies: 2 reviewers independently screened studies identified through bibliographic databases (Cochrane Library, PubMed, Embase, International Pharmaceutical Abstracts), clinical trial registries, and references from pertinent articles and clinical practice guidelines. Eligible studies included randomized controlled trials evaluating incretin-based therapy in adults with type 2 diabetes and estimated glomerular filtration rates < 60 mL/min/1.73 m².

Interventions: Incretin-based therapies (dipeptidyl peptidase 4 inhibitors and glucagon-like peptide 1 receptor agonists) compared to placebo or active antidiabetic therapies.



Conclusions: In patients with moderate or severe CKD, incretin-based therapies are effective in reducing HbA_{1c} levels. Hypoglycemic events are rare, and wide CIs for the association preclude any definitive conclusions. Likewise, wide CIs were observed for mortality, cardiovascular events, and end-stage renal disease.



Insuficiencia Hepática y DPP4i

	Sitagliptina ¹	Vildagliptina ²	Saxagliptina ³	Linagliptina ⁴	Alogliptina ⁵
Uso en insuficiencia hepática leve y moderada	Sí	No debe usarse, incluyendo pacientes con ALT o AST > 3 LSN pre-tratamiento	Sí, precaución en insuf, hepática moderada	Sí, pero falta experiencia clínica	Sí
Uso en insuficiencia hepática severa	No estudiada, tener precaución	No estudiada, tener precaución	No recomendado	Sí, pero falta experiencia clínica	No recomendado

Vildagliptina.

Se han notificado casos raros de disfunción hepática (incluyendo hepatitis).

Los pacientes fueron generalmente asintomáticos sin secuelas clínicas.

Debe realizarse un control de la función hepática antes de iniciar el tratamiento y monitorizarse ésta cada tres meses durante el primer año

Tratamiento del paciente con DM 2 (2017)

PERFIL

Edad

Sexo

IMC

Duración DM

Ocupación?

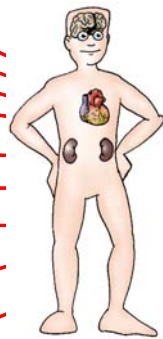
Conduce?

Vive solo?

Hipoglucemias?

Soporte social?

Individualización
objetivos



DM: Educación
y Expectativas

COMORBILIDAD

Enf. CV (I. C.)

Función Renal

Retinopatía

Hepatopatía

Pancreatitis

Osteoporosis

Prob. Cognitivo

Cancer

Fragilidad?

iDPP-4: Indicaciones actuales en ficha técnica

	Sitagliptina ¹	Vildagliptina ²	Saxagliptina ³	Linagliptina ⁴	Alogliptina ⁵
Modo de administración: (vo: vía oral)	vo (1 al día)	vo (2 al día) ∞ vo (1 al día) §	vo (1 al día)	vo (1 al día)	vo (1 al día)
Monoterapia:	Si***	Si***	Si***	Si***	No
Asociado a MET:	Si	Si	Si	Si	Si
Asociado a SU:	Si	Si	Si	No	Si
Asociado a GLIT:	Si	Si	Si	No	Si
Triple terapia con MET +SU:	Si	Si	Si	Si	No
Triple terapia con MET +GLIT:	Si	No	No	No	Si
Añadido a insulina:	Si	Si	Si	Si	Si

Hospitalización del paciente con DM2 en M.Interna

Management of Inpatient Hyperglycemia and Diabetes in Older Adults

Diabetes Care 2017;40:509-517 | DOI: 10.2337/dci16-0989

*“ the two leading causes of hospital admissions in older adults with diabetes are **cardiovascular disorders** (coronary artery disease, angina, heart failure, and stroke) **and respiratory diseases** (pneumonia and chronic obstructive pulmonary disease)”*

INGRESAN (CMBD) POR:

Complicaciones Cardiovasculares (IC) 25%



Infecciones Respiratorias 17%

Oncológicas 8 %



Infecciones urinarias y cutáneas (celulitis, pié..)

Hipoglucemias (más que por hiperglucemia)



Otras causas médico quirúrgicas



Medicina Interna



Médico de Familia

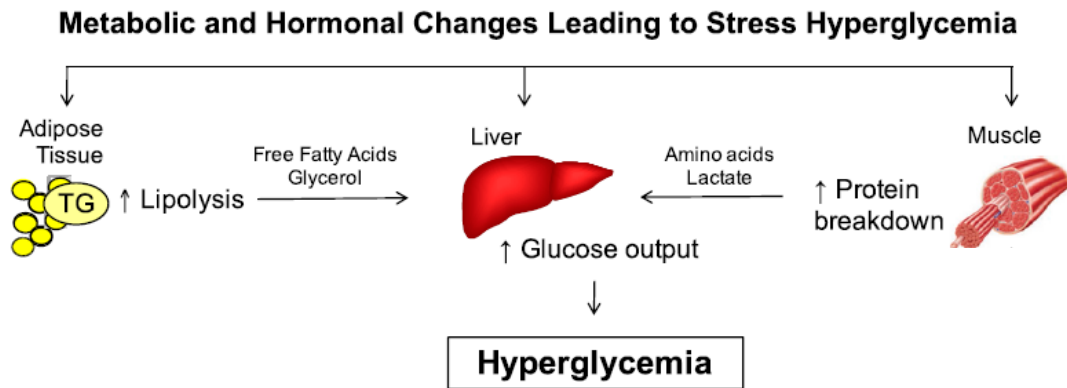




Management of Inpatient Hyperglycemia and Diabetes in Older Adults

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Guillermo E. Umpierrez and Francisco J. Pasquel



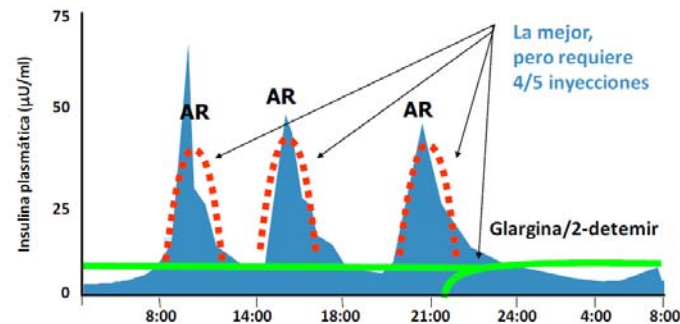
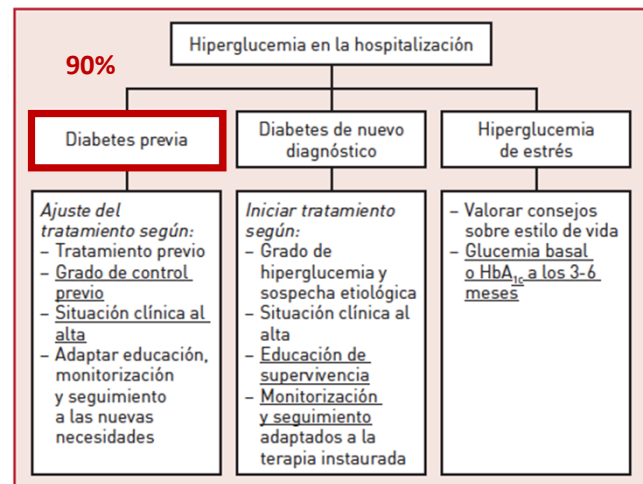
Conferencia de Consenso

Tratamiento de la hiperglucemia en el hospital

Hospital management of hyperglycemia

Antonio Pérez Pérez ^{a,*}, Pedro Conthe Gutiérrez ^b, Manuel Aguilar Diosdado ^a, Vicente Bertomeu Martínez ^c, Pedro Galdos Anunciabay ^d, Gonzalo García de Casola ^e, Ramón Gomis de Bárbara ^a, José Luis Palma Gamiz ^c, Manuel Puig Domingo ^f y Ángel Sánchez Rodríguez ^b

* En el paciente hospitalizado por lo general se recomienda retirada de Antidiabéticos orales



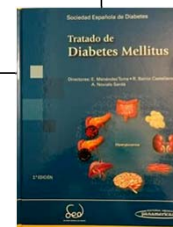
Indicadores de calidad en el informe de alta del paciente con diabetes

1-Determinación de la HbA _{1c} durante el ingreso
2-Incluir la función renal al alta (MDRD)
3-Situación clínica del paciente al alta y evolución previsible
4-Fijar los objetivos de control glucémico (HbA _{1c} y glucemias) y de otros factores de riesgo (lípidos, presión arterial, tabaco y reducción del peso)
5-Especificar el nivel de educación diabetológica y las necesidades pendientes de cubrir
6-Incluir recomendaciones individualizadas sobre la dieta y el ejercicio
7-Indicar los cambios efectuados en el tratamiento y su justificación
8-Especificar indicación y frecuencia de los controles glucémicos
9-Definir las necesidades de seguimiento: plazo de revisión y nivel asistencial (primaria, especializada)

✓ Pautas sencillas para la transición al alta bajo control de A.Primaria

Gestión eficiente del paciente diabético hospitalizado.
Importancia del Informe de Alta en la continuidad asistencial

P. Conthe Gutiérrez, J. García Alegría



Tratado de DM 2017

Insulina basal + antidiabéticos en hospitalización?

Antidiabético oral	Uso en paciente hospitalizado
METFORMINA	X
SULFONILUREAS	X
PIOGLITAZONA	X
AR-GLP1	X
iSGLT2	X
DPP4i	?*

Management of Inpatient
Hyperglycemia and Diabetes
in Older Adults

Diabetes Care 2017;40:509-517 | DOI: 10.2337/dc16-0989

* Pasquel FJ et al. Lancet Diabetes Endocrinol. 2016;8:587(16):1-9.

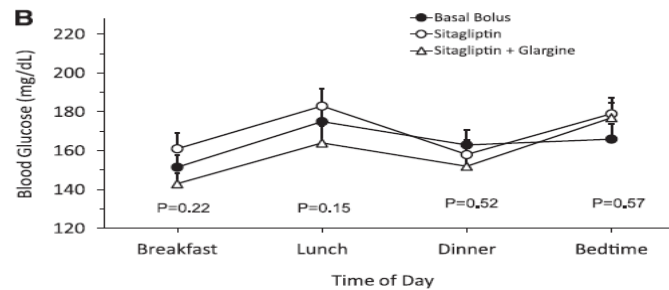
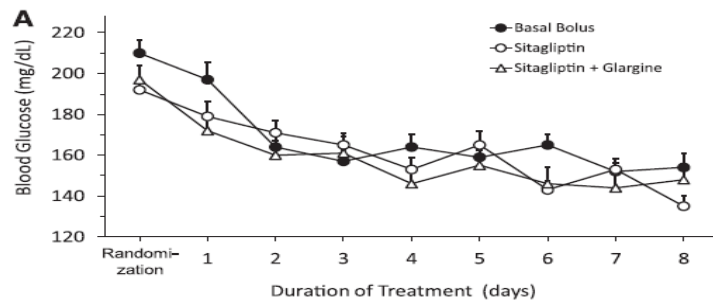
Safety and Efficacy of Sitagliptin Therapy for the Inpatient Management of General Medicine and Surgery Patients With Type 2 Diabetes

A pilot, randomized, controlled study

GUILLERMO E. UMPIERREZ, MD¹

FARNOOSH FARROKHI, MD¹

Scheduled basal bolus insulin therapy us-



Articles

Efficacy of sitagliptin for the hospital management of general medicine and surgery patients with type 2 diabetes (Sita-Hospital): a multicentre, prospective, open-label, non-inferiority randomised trial

Regímenes
Bolo-basal
o
Basal Plus

VS

Basal
+
Sitagliptina

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Interpretation The trial met the non-inferiority threshold for the primary endpoint, because there was no significant difference between groups in mean daily blood glucose concentrations. Treatment with sitagliptin plus basal insulin is as effective and safe as, and a convenient alternative to, the labour-intensive basal-bolus insulin regimen for the management of hyperglycaemia in patients with type 2 diabetes admitted to general medicine and surgery services in hospital in the non-intensive-care setting.

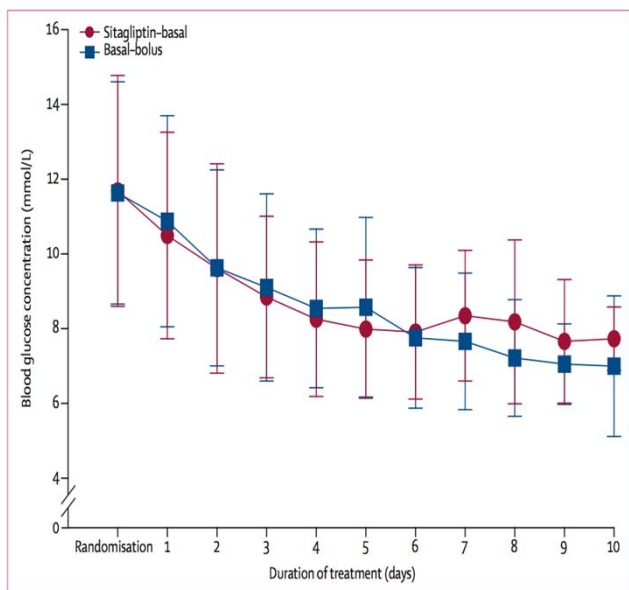


Figure 2: Mean daily blood glucose concentrations

Data are mean (SD). Concentrations measured in patients treated with sitagliptin-basal (red circles) or basal-bolus regimens (blue squares).

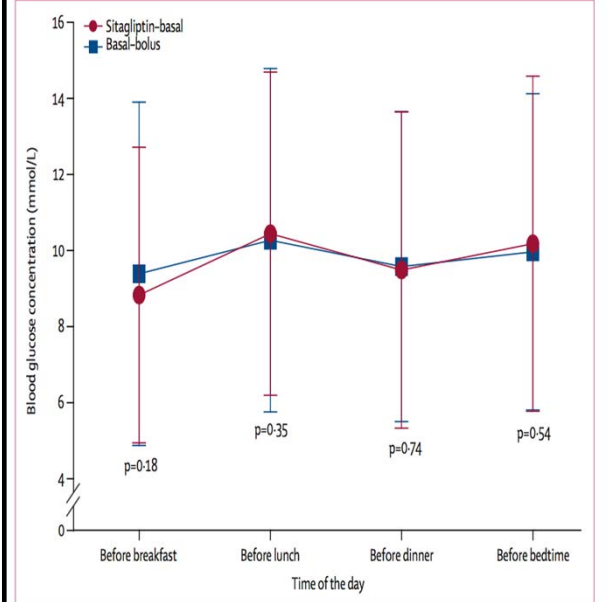


Figure 3: Mean blood glucose concentrations before meals and bedtime

Data are mean (SD). Concentrations measured in patients treated with sitagliptin-basal (red circles) or basal-bolus regimens (blue squares).

SITA-HOSPITAL TRIAL

Umpierrez et al 2016

Primary Efficacy Outcome: differences in mean daily BG concentration between groups
Primary Safety Outcome: differences in hypoglycemia (BG < 70 mg/dl) between groups

Baseline Clinical Characteristics	Sitagliptin + Basal	Basal Bolus	P value
Number of patients	138	139	
Gender			0.36
Female, n (%)	59 (43)	52 (37)	
Male, n (%)	79 (57)	87 (63)	
Age, yrs	57 ± 11	57 ± 10	0.98
BMI, kg/m ²	35.4 ± 11	35.0 ± 10	0.80
Body weight, kg	104.4 ± 33	103.8 ± 31	0.97
Duration diabetes, yrs	10.2 ± 7	10.3 ± 8	0.85
Admission service			0.49
Medicine, n (%)	114 (83)	119 (86)	
Surgery, n (%)	24 (17)	20 (14)	
Hospital LOS, days median (min, max)	4 (1, 50)	4 (1, 68)	0.54

SITA-HOSPITAL TRIAL

Main Results	Sitagliptin + Basal	Basal Bolus	P-value
Total daily dose, U/day	24.1 ± 16.2	34.0 ± 20.1	< 0.001
Number of Injections			
injections/ day (day 2-10)	2.1 ± 1.4	2.9 ± 1.1	< 0.001

Hypoglycemia	Sitagliptin + Basal	Basal bolus	P-value
patients BG <70 mg/dl, n (%)	13 (9)	17 (12)	0.45
patients BG <40 mg/dl, n (%)	0 (0)	0 (0)	> 0.99

- Treatment with sitagliptin plus basal insulin **is a safe and effective regimen** for the management of hyperglycemia in patients with T2D.
- Our results indicate that treatment with **sitagliptin plus basal is a more convenient** alternative to basal bolus regimen in patients with T2D.

Dpp4i en paciente hospitalizado

- Insulina basal + **inhibidores de DPP4**

Tipo de iDPP4	Estudios con resultados favorables	Estudios en marcha	ADA 2017
Saxagliptina		NCT02182895	⚠️*
Alogliptina			⚠️*
Vildagliptina			N/A*
Linagliptina		NCT02004366	Sin datos
Sitagliptina	✓*		✓*

* Pasquel FJ et al. Lancet Diabetes Endocrinol. 2016;8587(16):1–9.

Editorial

Sitagliptin plus basal insulin: simplifying in-hospital diabetes treatment?

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Conclusión

Se han evidenciado diferencias significativas entre los fármacos DPP4 I que pueden ser relevantes en la práctica clínica:

- .- En cuanto a seguridad demostrada en el paciente con Insuficiencia Cardíaca y Enf. Cardiovascular**
- .- En cuanto al paciente que presente Insuficiencia Hepática y/o Insuficiencia Renal**
- .- En cuanto a la experiencia clínica global en uso clínico con las distintas moléculas del grupo DPP4i**
- .-En cuanto a evidencias de su posible utilización eficiente en el paciente hospitalizado (con Insulina)**

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