



ReFORMÚLaTE

TÍTULO DE LA SESIÓN “DE BARCELONA NO TE IRÁS SIN SABER 10 COSAS MÁS”

Héctor Alonso Ramos

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Servicio de Farmacia Hospitalaria

Top 1 – Nirmatrelvir-ritonavir

Top 2 – Vasopresina

Top 3 – Inclisirán

Top 4 – iSGLT2 en ICFEp

Top 5 – Procainamida

Top 1 – Nirmatrelvir-ritonavir



agencia española de
medicamentos y
productos sanitarios



Fecha de actualización: 2 de noviembre de 2022
Versión: 7

Paciente de alto riesgo y enfermedad leve-moderada

Grupo 1. Personas inmunocomprometidas

Grupo 2. Personas no vacunadas* con >80 años

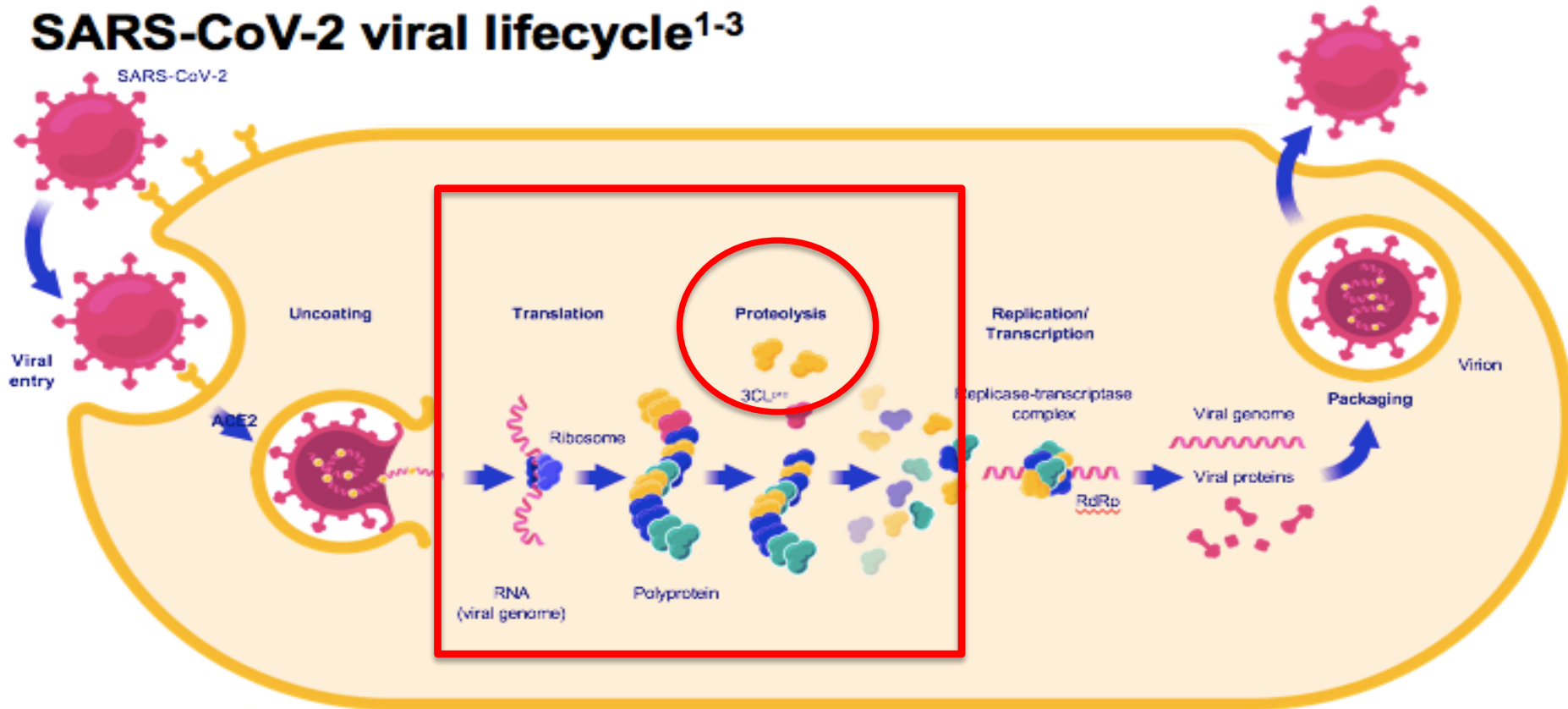
Grupo 3. Personas no vacunadas* >65 años y con al menos un factor de riesgo para progresión**

Grupo 4. Personas vacunadas (>6 m) y >65 años y con al menos un factor de riesgo para progresión**

* Sin pauta de vacunación completa ni COVID-19 en los 3 últimos meses.

** Factores de riesgo de progresión: ERC, EHC, Enfermedad neurológica y pulmonar crónica, enfermedad cardiovascular establecida, DM con complicaciones, IMC>35, IMC<18.5.

SARS-CoV-2 viral lifecycle¹⁻³



The NEW ENGLAND JOURNAL of MEDICINE

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Oral Nirmatrelvir for High-Risk, Nonhospitalized Adults with Covid-19

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Weihang Bao, Ph.D., Wayne Wisemandle, M.A., MaryLynn Baniecki, Ph.D., Victoria M. Hendrick, B.Sc.,
Bharat Damle, Ph.D., Abraham Simón-Campos, M.D., Rienk Pypstra, M.D., and James M. Rusnak, M.D., Ph.D.,
for the EPIC-HR Investigators*

- **Mayoría de pacientes con variante delta**

- **Ninguna muerte en el brazo N-r (0 vs 12)**

Variable principal: Proporción de pacientes con hospitalización por COVID-19 o muerte por cualquier causa (hasta el día 28).						
	Paxlovid®		Placebo		Reducción absoluta del riesgo con respecto a placebo* [IC95%]	NNT [IC95%]
	Nº de Pacientes	Incidencia acumulada (%)	Nº de Pacientes	Incidencia acumulada (%)		
Serología Negativa	487	7 (1,4%)	505	58 (11,5%)	-10,25% (-13,2% a -7,21%)	10 (8 a 14)
Serología positiva	540	1 (0,2%)	528	8 (1,5%)	-1,34% (-2,45% a -0,23%)	75 (41 a 435)
Total	1039	8 (0,8%)	1046	66 (6,3%)	-5,6% (-7,2% a -4%)	18 (14 a 25)

N Engl J Med 2022;386:1397-408.

Oral Nirmatrelvir and Ritonavir (NMV-r, Paxlovid™) in Non-hospitalized Vaccinated Patients with Covid-19

Ganatra et al., 2022 | *Clinical Infectious Diseases*



Retrospective Cohort



Is NMV-r treatment associated with improved clinical outcomes in high risk vaccinated adults with Covid-19 ?

Cohort 1: On NMV-r



N= 1130

Cohort 2(selected after propensity score matching): Not on NMV-r



N= 1130

Primary Composite Outcome: All-cause ER visit, hospitalization or death within 30days



Secondary outcomes:

Cardio-respi. symptoms

Pneumonia

Radiology diagnostics

Cohort-1

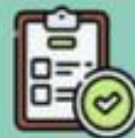
89 (7.87%); Relative Risk Reduction= 45%

NNT: 15

Cohort-2

163 (14.4%)

p value <0.001



Conclusion :

In non-hospitalized vaccinated high-risk patients with Covid-19, treatment with NMV-r was strongly associated with improved clinical outcomes and reduced resource utilization.

153 (13.5%);RRR=51%

309 (27.3%)

27 (2.38%);RRR= 72%

92 (8.14%)

90 (7.9%);RRR= 45%

164 (14.5%)

p value <0.001



Inclusion Criteria:Vaccinated, non-hospitalized
Covid-19 adults not receiving any other antiviral therapy; TriNetX research network was used.

Outcomes	Nirmatrelvir-Ritonavir (n = 1130)	No Nirmatrelvir-Ritonavir (n = 1130)	Risk Difference	Relative Risk Reduction	Odds Ratio	E-Value of Odds Ratio	E-Value for Lower Confidence Interval of Odds Ratio	P
Primary composite outcomes								
All-cause ER visit, hospitalization, or death	89 (7.87%)	163 (14.4%)	-0.065 (-.091, -.040)	45%	0.507 (.386, .666)	3.36	2.37	<.001
Secondary outcomes								
Individual components of primary outcomes								
All-cause ER visit	83 (7.34%)	142 (12.5%)	-0.052 (-.077, -.028)	41%	0.552 (.415, .733)	3.02	2.07	<.001
All-cause hospitalization	10 (0.8%)	23 (2%)	-0.012 (-.021, -.002)	60%	0.430 (.204, .907)	4.08	1.44	.023
30-Day mortality	0	10 (0.8%)	-0.009 (-.014, -.003)	100%	...	...	...	.002
Symptoms								
Constitutional symptoms	72 (6.3%)	146 (12.9%)	-0.065 (-.090, -.041)	50%	0.459 (.341, .616)	3.78	2.63	<.001
Cardiorespiratory symptoms	153 (13.5%)	309 (27.3%)	-0.138 (-.171, -.105)	51%	0.416 (.336, .516)	4.24	3.29	<.001
Gastrointestinal symptoms	38 (3.3%)	89 (7.87%)	-0.045 (-.064, -.026)	57%	0.407 (.276, .601)	4.35	2.71	<.001
Nervous system and musculoskeletal symptoms	10 (0.8%)	25 (2.2%)	-0.013 (-.023, -.003)	59%	0.395 (.189, .826)	4.5	1.72	.011
Smell/taste alteration	10 (0.8%)	10 (0.8%)	0 (-.008, .008)	0	1 (.415, 2.412)	1	1	1
Complications								
Lower respiratory tract infection	27 (2.38%)	92 (8.14%)	-0.058 (-.076, -.039)	72%	0.276 (.178, .428)	6.71	4.1	.000
Arrhythmia	22 (1.9%)	43 (3.8%)	-0.019 (-.032, -.005)	50%	0.502 (.298, .845)	3.4	1.65	.008
Gastroenteritis/colitis/diarrhea	12 (1%)	13 (1.1%)	-0.001 (-.010, .008)	8%	0.922 (.419, 2.030)	1.39	1	.841
Anxiety/mood disorder	64 (5.6%)	114 (10%)	-0.044 (-.066, -.022)	44%	0.535 (.389, .735)	3.14	2.06	.000
Diagnostic testing utilization								
Radiology diagnostic tests	90 (7.9%)	164 (14.5%)	-0.065 (-.091, -.040)	45%	0.510 (.388, .669)	3.33	2.35	<.001
CV tests (echocardiogram and heart monitors)	10 (0.88%)	13 (1.1%)	-0.003 (-.011, .006)	25%	0.767 (.335, 1.757)	1.93	1	.530



The chemical structure shows a complex molecule with a bicyclic core. The core consists of a cyclopropane ring fused to a cyclobutane ring. The cyclopropane ring has two methyl groups and a nitrogen atom. The cyclobutane ring has a nitrogen atom and a carbonyl group. The nitrogen atom of the cyclobutane ring is part of a cyclic amide. The carbonyl group of the cyclobutane ring is part of a chain that includes a nitrile group and a cyclic amide. The chain also includes a trifluoromethyl group. The stereocenters are labeled (S), (R), and (S).

[View in Mac App Store ↗](#)

67 Congreso Nacional SEFH - Sociedad Española de Farmacia Hospitalaria

NUESTRA EXPERIENCIA

NO INTERACCIONA:

Omeprazol
iECAs/ARA-2
Betabloqueantes
AAS
Furosemida
Metformina
iSGLT2
iSRS
Paracetamol
Ibuprofeno
Levotiroxina
Alopurinol

Tratamientos VALORADOS (N=213):

- ✓ **77% VALIDADOS**
- ✓ **14 tratamientos NO VALIDADOS por interacciones**
- ✓ **54% grupo 1 y 16% grupo 4**

INTERACCIONES MANEJADAS

Simvastatina/Atorvastatina

Sacubitril-valsartan/Amlodipino

Warfarina/Edoxaban

Morfina/Fentanilo

Diazepam/Alprazolam

Zolpidem

Trazodona

Tamsulosina

NUESTRA EXPERIENCIA-Manejo de interacciones

VALORAR la INTERACCIÓN FARMACOLÓGICA

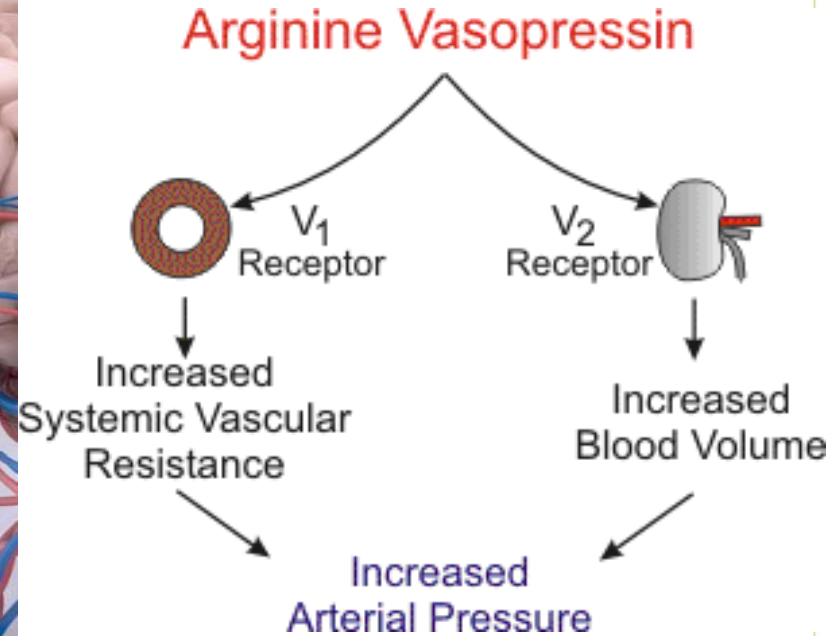
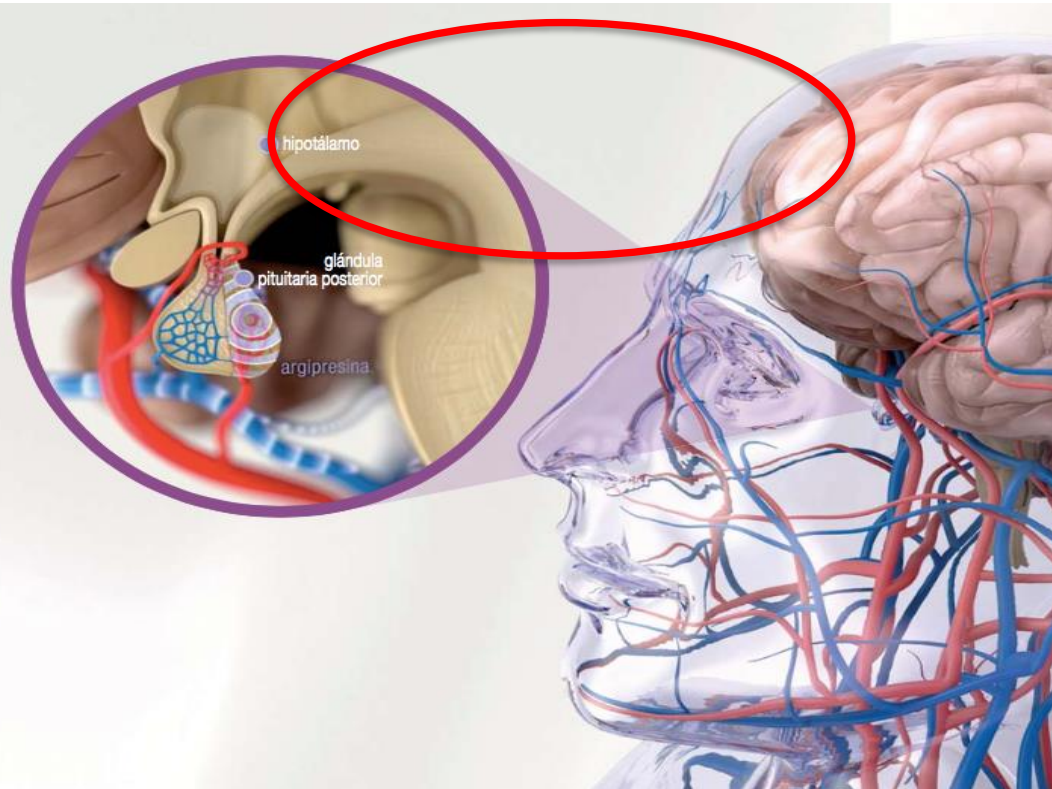
Simvastatina/Atorvastatina
Diazepam/Alprazolam/Zolpidem/Trazodona
Sacubitril-valsartan/Amlodipino
Warfarina/Edoxaban

con la SITUACIÓN CLÍNICA:

Prevención 1ª vs ictus carotídeo
monoterapia vs politerapia SNC
monoterapia vs politerapia HTA
Alto riesgo vs bajo riesgo trombótico

RECOMENDACIÓN FARMACOTERAPÉUTICA

Top 2 – Vasopresina



Top 2 – Vasopresina

Surviving Sepsis Campaign: International Guidelines for Management of Sepsis and Septic Shock 2021

KEY WORDS: adults; evidence-based medicine; guidelines; sepsis; septic shock

Laura Evans¹
Andrew Rhodes²
Waleed Alhazzani³
Massimo Antonelli⁴

Recommendations

37. For adults with septic shock, we **recommend** using norepinephrine as the first-line agent over other vasopressors. *Strong recommendation*

Dopamine. *High quality evidence*

Vasopressin. *Moderate-quality evidence*

Epinephrine. *Low-quality evidence*

Selepressin. *Low-quality evidence*

Angiotensin II. *Very low-quality evidence*

Remark:

In settings where norepinephrine is not available, epinephrine or dopamine can be used as an alternative, but we encourage efforts to improve the availability of norepinephrine. Special attention should be given to patients at risk for arrhythmias when using dopamine and epinephrine.

38. For adults with septic shock on norepinephrine with inadequate MAP levels, we **suggest** adding vasopressin instead of escalating the dose of norepinephrine.

Weak recommendation, moderate-quality evidence.

Remark:

In our practice, vasopressin is usually started when the dose of norepinephrine is in the range of 0.25–0.5 µg/kg/min.

39. For adults with septic shock and inadequate MAP levels despite norepinephrine and vasopressin, we **suggest** adding epinephrine.

Weak recommendation, low-quality evidence.

40. For adults with septic shock, we **suggest against** using terlipressin.

Weak recommendation, low quality of evidence.

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Table 4. Rates and Risks of Death from Any Cause According to the Severity of Shock.*

Stratum	Norepinephrine Group no./total no. (%)	Vasopressin Group no./total no. (%)	P Value†	Absolute Risk Reduction (95% CI) %	Relative Risk (95% CI)
More severe septic shock					
28-day mortality	85/200 (42.5)	88/200 (44.0)	0.76	-1.5 (-11.2 to 8.2)	1.04 (0.83 to 1.3)
90-day mortality	105/199 (52.8)	103/199 (51.8)	0.84	1.0 (-8.8 to 10.8)	0.98 (0.81 to 1.18)
Less severe septic shock	Noradrenalina < 15 mcg/min				
28-day mortality	65/182 (35.7)	52/196 (26.5)	0.05	9.2 (-0.1 to 18.5)	0.74 (0.55 to 1.01)
90-day mortality	83/180 (46.1)	69/193 (35.8)	0.04	10.4 (0.4 to 20.3)	0.78 (0.61 to 0.99)

Surviving Sepsis Campaign: International Guidelines for Management of Sepsis and Septic Shock 2021

KEY WORDS: adults; evidence-based medicine; guidelines; sepsis; septic shock

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Revisión sistemática (RCT=10):

- ✓ **Vasopresina disminuye mortalidad (RR, 0.91)**
- ✓ **No reduce necesidad de TRR.**
- ✓ **Sin diferencias en isquemia digital (RR, 1.01)**

...of digital ischemia (RR, 1.01; 95% CI, 0.55–2.01) or arrhythmias (RR, 0.88; 95% CI, 0.63–1.23). The threshold for adding vasopressin varied among studies and remains unclear. Starting vasopressin when norepinephrine dose is in the range of 0.25–0.5 µg/kg/min seems sensible (354).

Se recomienda iniciar vasopresina con dosis de noradrenalina de 0.25-0.5 mcg/kg/min

Surviving Sepsis Campaign: International Guidelines for Management of Sepsis and Septic Shock 2021

KEY WORDS: adults; evidence-based medicine; guidelines; sepsis; septic shock

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Controversia – Terlipresina

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Weak recommendation, low-quality evidence.

40. For adults with septic shock, we **suggest against** using terlipressin.

Weak recommendation, low quality of evidence.

Metanálisis del panel:

- ✓ Terlipresina NO disminuye mortalidad (95% CI, 0.70–1.13)
- ✓ Aumenta los efectos adversos frente a noradrenalina.
- ✓ Aumenta significativamente la isquemia digital (12% vs 0.4%) e isquemia mesentérica.

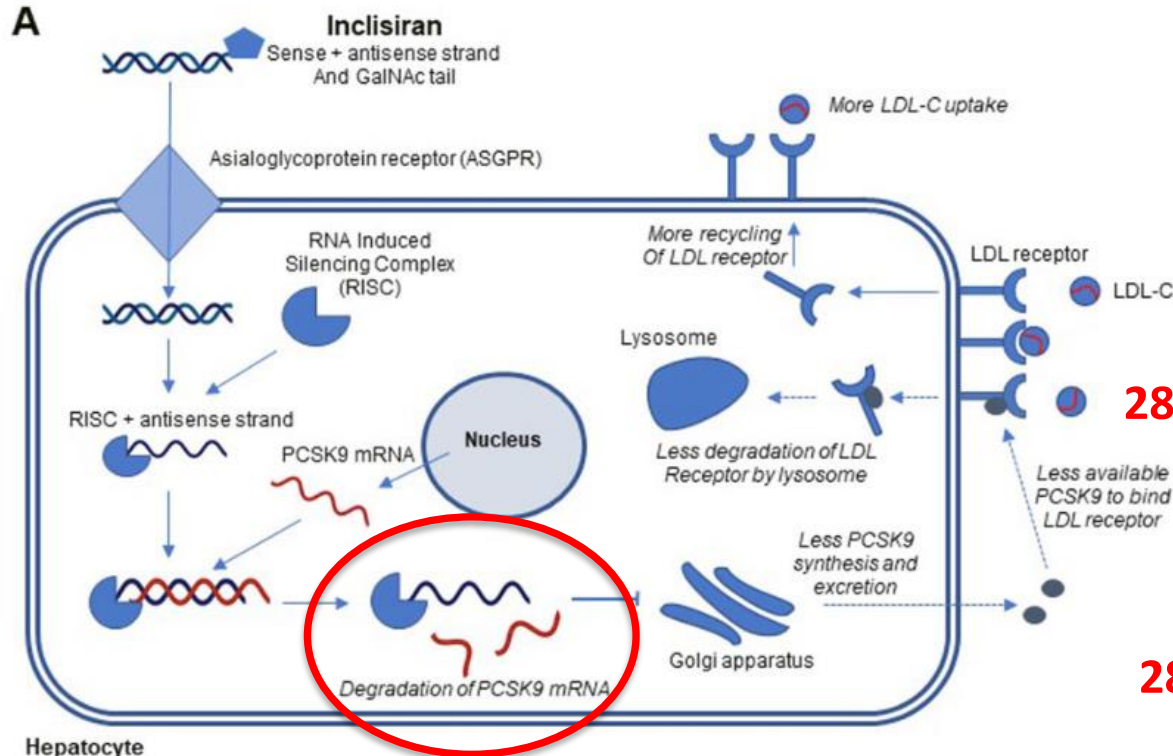
Top 2 – Vasopresina-TIPS

- ✓ Iniciar vasopresina en las primeras 6 h del shock séptico refractario
- ✓ Iniciar vasopresina con dosis de noradrenalina de 0.25-0.5 mcg/kg/min
- ✓ Incrementar dosis de vasopresina cada 15-20 min desde 0.01 hasta 0.03 UI/min
- ✓ Se recomienda retirar primero NA antes que vasopresina para evitar hipotensión
- ✓ Dilución de 40 UI de vasopresina en 50 mL de SF con estabilidad de 24 h.

Posología. Velocidades de infusión de acuerdo con las dosis recomendadas:

Dosis de Empressin/min	Dosis de Empressin/hora	Velocidad de infusión
0,01 U.I.	0,6 U.I.	0,75 ml/hora
0,02 U.I.	1,2 U.I.	1,50 ml/hora
0,03 U.I.	1,8 U.I.	2,25 ml/hora

Top 3 – Inclisiran



284 mg SUBCUTÁNEO día 1



284 mg SUBCUTÁNEO a los 90 días



284 mg SUBCUTÁNEO c/6 meses

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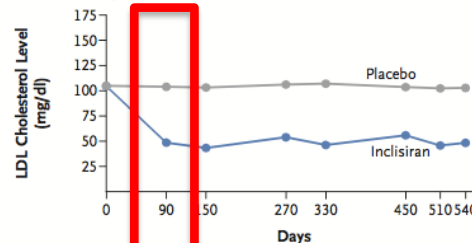
ORIGINAL ARTICLE

Two Phase 3 Trials of Inclisiran in Patients with Elevated LDL Cholesterol

Kausik K. Ray, M.D., M.Phil., R. Scott Wright, M.D., David Kallend, M.D., Wolfgang Koenig, M.D., Lawrence A. Leiter, M.D., Frederick J. Raal, Ph.D., Jenna A. Bischoff, B.A., Tara Richardson, B.A., Mark Jaros, Ph.D., Peter L.J. Wijngaard, Ph.D., and John J.P. Kastelein, M.D., Ph.D., for the ORION-10 and ORION-11 Investigators*

N Engl J Med 2020;382:1507-19.

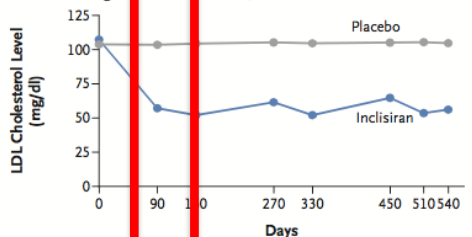
B Absolute Change in LDL Cholesterol, ORION-10 Trial



No. of Patients

Placebo	780	762	745	724	715	698	666	670
Inclisiran	781	758	757	737	731	721	691	705

D Absolute Change in LDL Cholesterol, ORION-11 Trial



No. of Patients

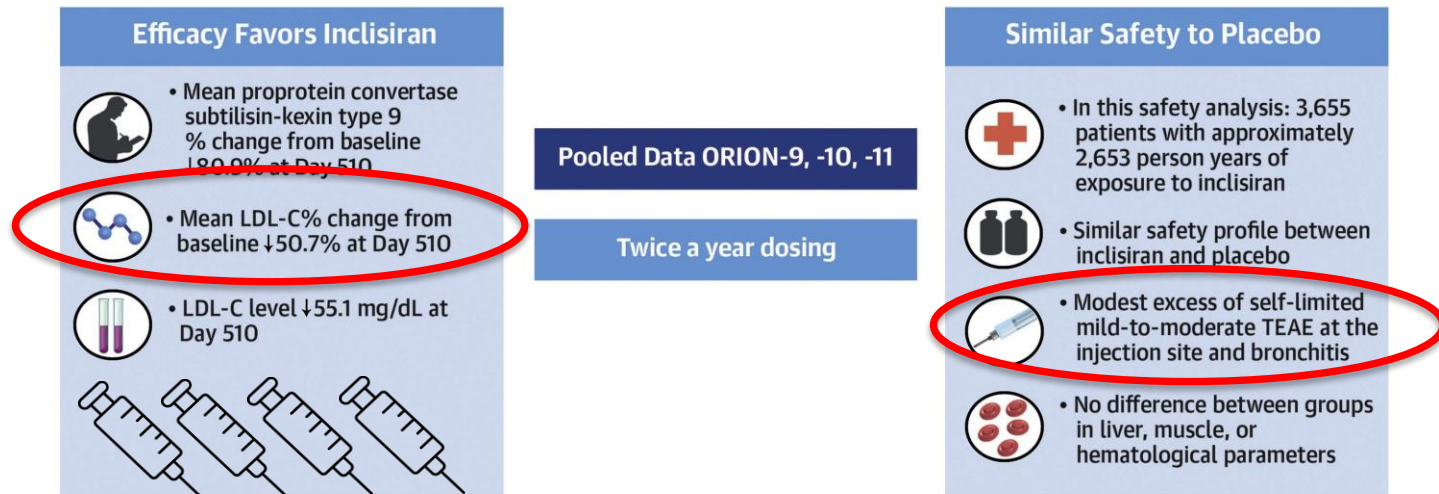
Placebo	807	797	785	774	773	764	739	749
Inclisiran	810	790	796	778	773	768	724	742

RRR: 52.3 %

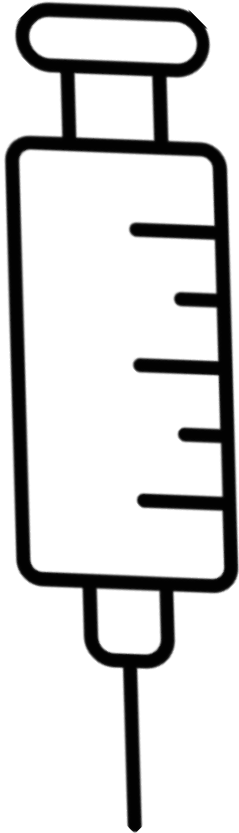
RRR: 49.9 %

Pacientes con alto riesgo cardiovascular y LDLc >100 mg/dL

CENTRAL ILLUSTRATION: Inclisiran With Summary About Safety and Efficacy



Wright, R.S. et al. J Am Coll Cardiol. 2021;77(9):1182-93.



✓ **Reacciones en el lugar de inyección: 8,2% vs 1,8%**

Reacciones leves o moderadas, transitorias y sin secuelas:

✓ **Reacción en el lugar de inyección: 3.1%**

✓ **Dolor en el lugar de inyección: 2.2%.**

✓ **Eritema en el lugar de inyección: 1.6%.**

✓ **Erupción en el lugar de inyección: 0.7%.**

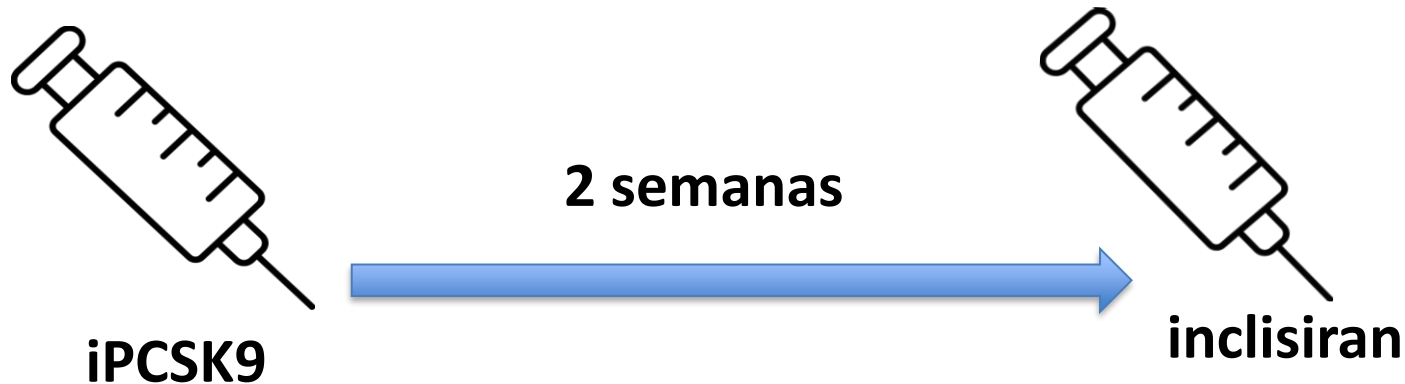
Top 3 – Inclisirán

Está indicado en adultos con **hipercolesterolemia primaria (heterocigótica familiar y no familiar) o dislipidemia mixta**, como adyuvante de la dieta:

- **en combinación con una estatina o una estatina** y otros tratamientos hipolipemiantes en pacientes que no consiguen alcanzar los objetivos de C-LDL con la dosis máxima de una estatina o,
- **sola o en combinación con otros tratamientos hipolipemiantes** en pacientes que son intolerantes a las estatinas, o para aquellos para los que las estatinas están contraindicadas.

Top 3 – Switching de PCSK9 a inclisiran

- ✓ Administrar inclisiran 2 semanas después de la última dosis del anticuerpo monoclonal inhibidor de PCSK9



Top 3 –¿Posicionamiento de inclisiran?

Fármacos en monoterapia o en combinación	Reducción teórica del cLDL (%)
Estatina de intensidad baja	30
Estatina de intensidad moderada	40
Estatina de intensidad alta	50
Ezetimiba	20
Inhibidor de PCSK9	60
Estatina de intensidad baja + ezetimiba	44
Estatina de intensidad moderada + ezetimiba	52
Estatina de intensidad alta + ezetimiba	60
Estatina de intensidad baja + inhibidor de PCSK9	72
Estatina de intensidad moderada + inhibidor de PCSK9	76
Estatina de intensidad alta + inhibidor de PCSK9	80
Estatina de intensidad baja + ezetimiba + inhibidor de PCSK9	78
Estatina de intensidad moderada + ezetimiba + inhibidor de PCSK9	80
Estatina de intensidad alta + ezetimiba + inhibidor de PCSK9	84

¡YA LO VEREMOS!

inclisiran reduce LDLc un 51%

¿inclisiran reduce LDLc un 70%?

¿inclisiran reduce LDLc un 80%?

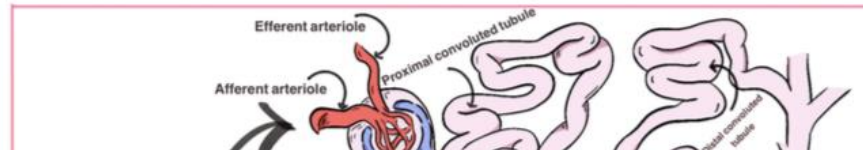
Top 4 – iSGLT2 en ICFEp

Inhibición de reabsorción de Na⁺ (diuresis osmótica):

- ✓ **Disminuye sobrecarga de volúmen.**
- ✓ **Disminuye la presión sanguínea.**
- ✓ **Disminuye la precarga y postcarga.**
- ✓ **Mejora el llenado ventricular y el REMODELADO CARDÍACO.**

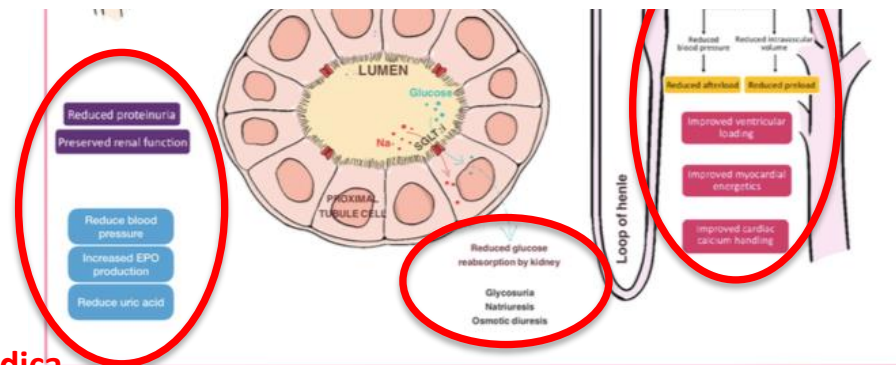
Inhibición de reabsorción de glucosa (glucosuria):

- ✓ **Mejora el control glucémico.**
- ✓ **Disminuye la presión sanguínea.**
- ✓ **Produce pérdida de peso.**
- ✓ **El uso de ácidos grasos mejora la carga energética miocárdica.**



Reducción de la presión sanguínea renal:

- ✓ **Reduce la proteinuria.**
- ✓ **Aumenta la producción de EPO.**
- ✓ **Preserva la función renal a medio-largo plazo.**



Top 4 – EMPAGLIFLOZINA

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Empagliflozin in Heart Failure with a Preserved Ejection Fraction

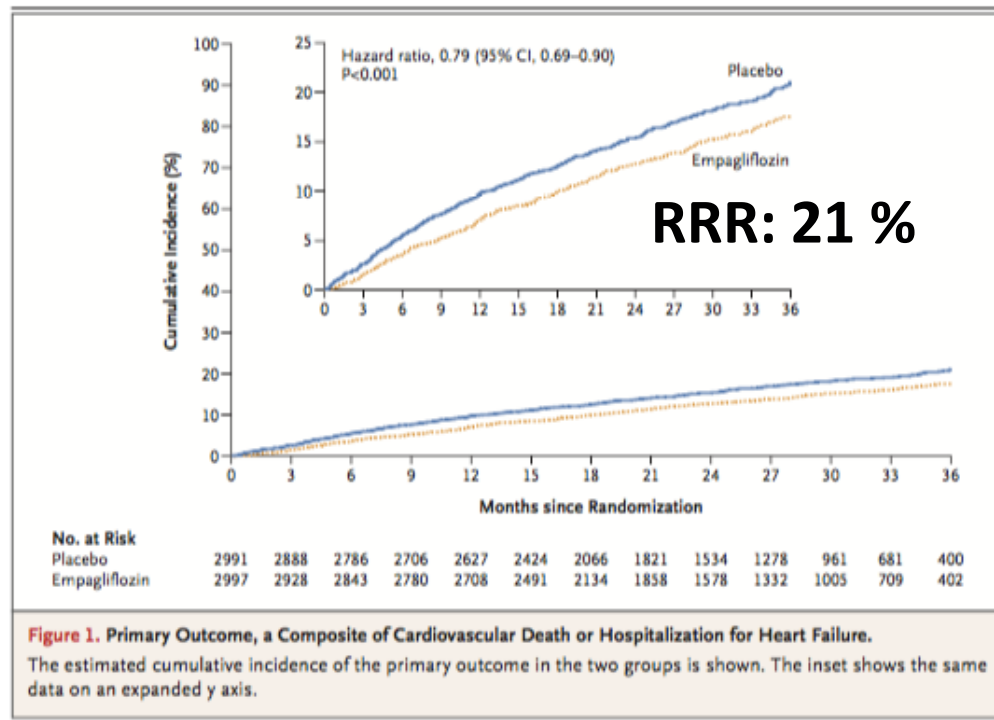
S.D. Anker, J. Butler, G. Filippatos, J.P. Ferreira, E. Bocchi, M. Böhm, H.-P. Brunner-La Rocca, D.-J. Choi, V. Chopra, E. Chuquiere-Valenzuela, N. Giannetti, J.E. Gomez-Mesa, S. Janssens, J.L. Januzzi, J.R. Gonzalez-Juanatey, B. Merkely, S.J. Nicholls, S.V. Perrone, I.L. Piña, P. Ponikowski, M. Senni, D. Sim, J. Spinar, I. Squire, S. Taddei, H. Tsutsui, S. Verma, D. Vinereanu, J. Zhang, P. Carson, C.S.P. Lam, N. Marx, C. Zeller, N. Sattar, W. Jamal, S. Schnaidt, J.M. Schnee, M. Brueckmann, S.J. Pocock, F. Zannad, and M. Packer, for the EMPEROR-Preserved Trial Investigators*

Empagliflozina 10 mg/24h

IC con FE>40% (NIHA II-IV)

DM2 y no diabéticos

FGE> 25 mL/min



Top 4 – EMPAGLIFLOZINA

Subgroup	Empagliflozin <i>no. of patients with events/total no.</i>	Placebo	Hazard Ratio (95% CI)		
Overall	415/2997	511/2991		0.79 (0.69–0.90)	
Diabetes at baseline					
Yes	239/1466	291/1472		0.79 (0.67–0.94)	
No	176/1531	220/1519		0.78 (0.64–0.95)	
LVEF at baseline					
<50%	145/995	193/988		0.71 (0.57–0.88)	FE: 40-50%
≥50% to <60%	138/1028	173/1030		0.80 (0.64–0.99)	
≥60%	152/974	145/973		0.82 (0.69–1.00)	
Age					
<70 yr	134/1066	152/1084		0.88 (0.70–1.11)	>70 años
≥70 yr	281/1931	359/1907		0.75 (0.64–0.87)	
Estimated GFR (CKD-EPI) at baseline					
≥60 ml/min/1.73 m ²	152/1493	189/1505		0.81 (0.65–1.00)	FGE <60 ml/min
<60 ml/min/1.73 m ²	263/1504	321/1484		0.78 (0.66–0.91)	

Top 4 – DAPAGLIFLOZINA

THE NEW ENGLAND JOURNAL OF MEDICINE

ORIGINAL ARTICLE

Dapagliflozin in Heart Failure with Mildly Reduced or Preserved Ejection Fraction

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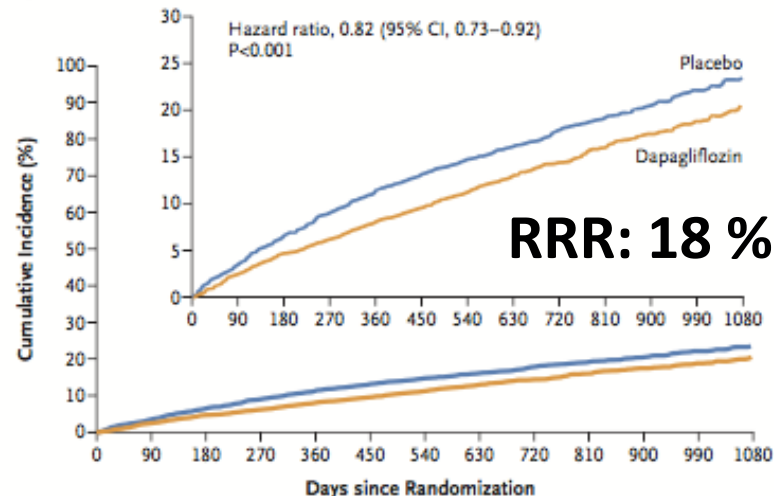
Dapagliflozina 10 mg/24h

IC con FE>40% (NIHA II-IV)

DM2 y no diabéticos

FGE> 20 mL/min

A Primary Outcome



No. at Risk

Placebo	3132	3007	2896	2799	2710	2608	2318	2080	1923	1554	1140	772	383
Dapagliflozin	3131	3040	2949	2885	2807	2716	2401	2147	1982	1603	1181	801	389

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Top 4 – DAPAGLIFLOZINA

FE: >50%

FGE <60 mL/min

Table 2. Primary and Secondary Cardiovascular Outcomes and Safety Outcomes in the Overall Population.*

Variable	Dapagliflozin (N = 3131)		Placebo (N = 3132)		Hazard or Rate Ratio or Win Ratio (95% CI)	P Value
	values	events/ 100 patient-yr	values	events/ 100 patient-yr		
Efficacy outcomes						
Primary composite outcome — no. (%)	512 (16.4)	7.8	610 (19.5)	9.6	0.82 (0.73–0.92)	<0.001
Hospitalization for heart failure or an urgent visit for heart failure	368 (11.8)	5.6	455 (14.5)	7.2	0.79 (0.69–0.91)	NA
Hospitalization for heart failure	329 (10.5)	5.0	418 (13.3)	6.5	0.77 (0.67–0.89)	NA
Urgent visit for heart failure	60 (1.9)	0.9	78 (2.5)	1.1	0.76 (0.55–1.07)	NA
Cardiovascular death†	231 (7.4)	3.3	261 (8.3)	3.8	0.88 (0.74–1.05)	NA
Secondary outcomes						
Total no. of worsening heart failure events and cardiovascular deaths‡	815	11.8	1057	15.3	0.77 (0.67–0.89)	<0.001
Change in KCCQ total symptom score at mo 8§	—	—	—	—	1.11 (1.03–1.21)	0.009
Mean change in KCCQ total symptom score at mo 8 among survivors	—	—	—	—	2.4 (1.5–3.4)	NA
Death from any cause — no. (%)	497 (15.9)	7.2	526 (16.8)	7.6	0.94 (0.83–1.07)	NA

iSGLT2– Efectos secundarios

1. Glucemia < 200 mg/dL
2. Cetonuria/hipercetonemia
3. pH < 7.35

CETOACIDOSIS EUGLUCÉMICA

FACTORES DE RIESGO:

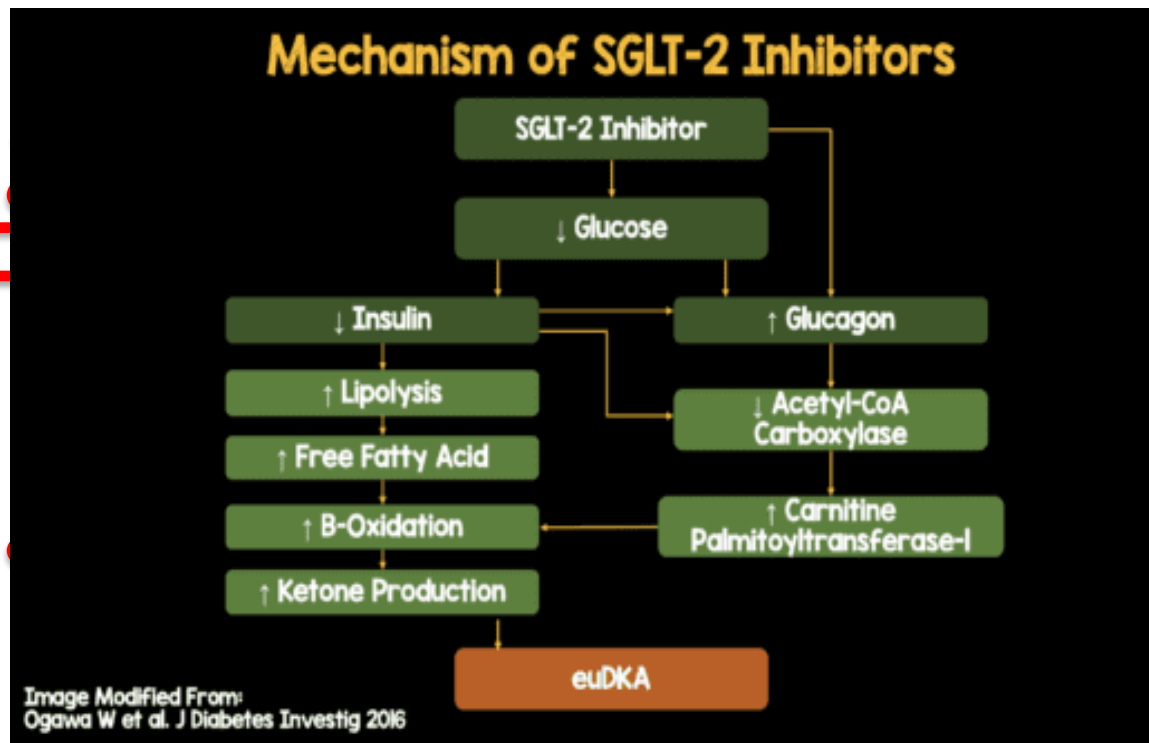
1) **HIDRATACIÓN** 1-1.5 L en 1 h.

2) **INSULINA** 0.1 U/kg/h

3) **SG10% a 125 mL/h**

4) **Potasio** 10-20 mEq/L

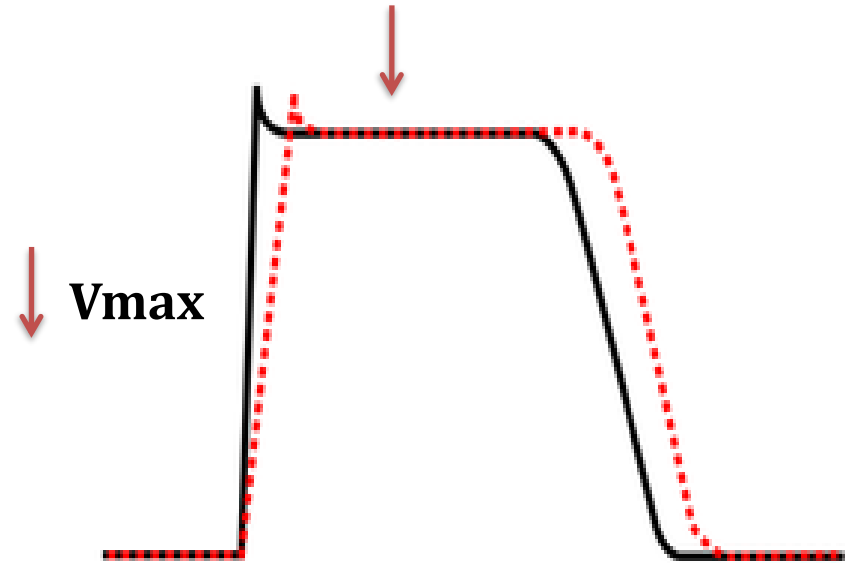
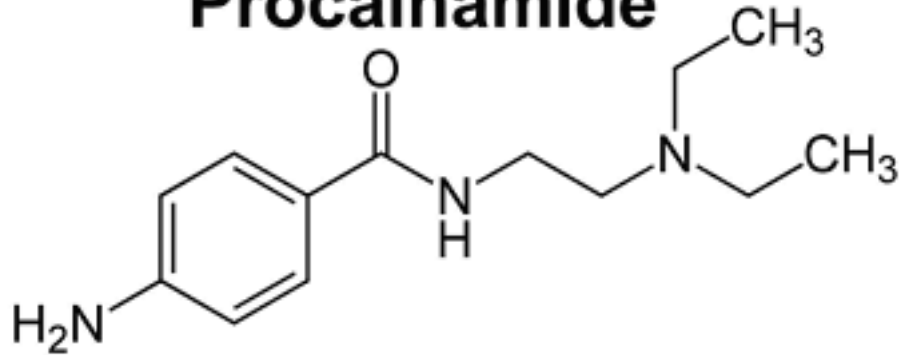
Empagliflozin	Placebo
(n=2996)	(n=2989)
N (%)	N (%)



Top 5 – Procainamida

Prolonga la duración del potencial de acción, el QRS y el QTc

Procainamide





ESC

European Society
of Cardiology

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ESC GUIDELINES

2022 ESC Guidelines for the management of patients with ventricular arrhythmias and the prevention of sudden cardiac death

Developed by the task force for the management of patients with ventricular arrhythmias and the prevention of sudden cardiac death of the European Society of Cardiology (ESC)

Endorsed by the Association for European Paediatric and Congenital Cardiology (AEPC)

European Heart Journal (2022) 00, 1–130

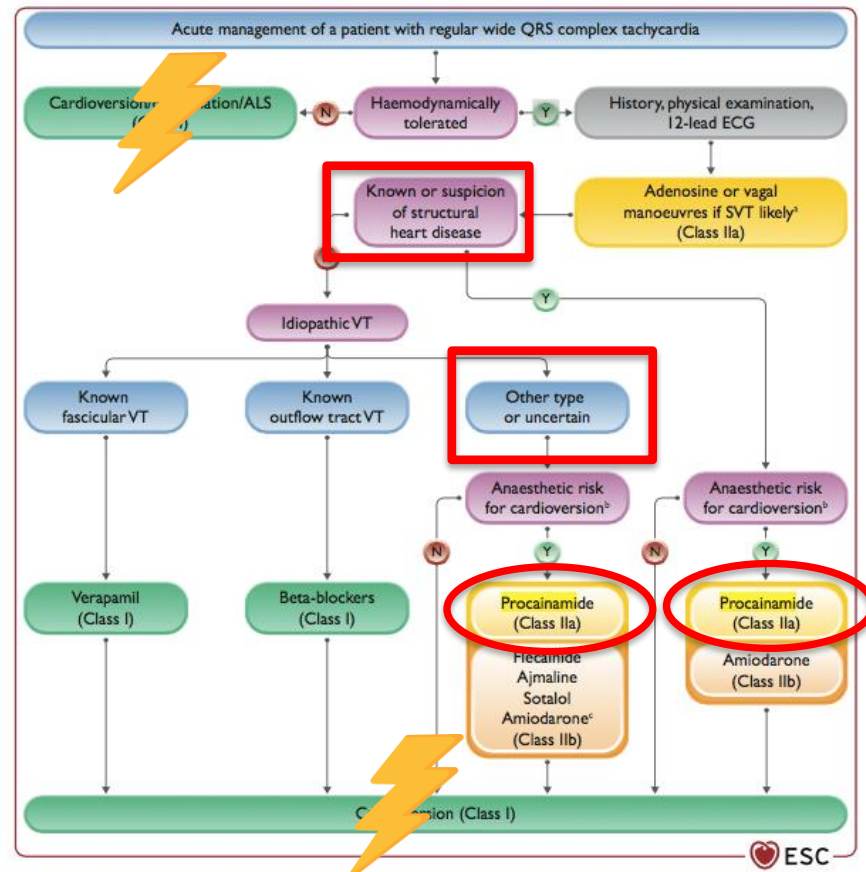


Table 4 New recommendations in 2022

Recommendations	Class
Treatment of VA. General aspects	
DC cardioversion is recommended as the first-line treatment for patients presenting with tolerated SMVT provided that the anaesthetic/sedation risk is low.	I
Optimal medical treatment including ACE-I/ARB/ARNIs, MRAs, beta-blockers, and SGLT2 inhibitors is indicated in all heart failure patients with reduced EF.	I
Implantation of a cardioverter defibrillator is only recommended in patients who have an expectation of good-quality survival >1 year.	I
In patients presenting with a haemodynamically tolerated SMVT and known or suspected SHD, intravenous procainamide should be considered.	IIa
In patients presenting with a haemodynamically tolerated SMVT in the absence of an established diagnosis, intravenous <u>amiodarone</u> may be considered.	IIb

Procainamida NO DEBE usarse en:

- ✓ **Insuficiencia cardíaca grave.**
- ✓ **Síndrome coronario agudo.**
- ✓ **Enfermedad renal terminal**



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CLINICAL RESEARCH
Arrhythmia/electrophysiology

Randomized comparison of intravenous procainamide vs. intravenous amiodarone for the acute treatment of tolerated wide QRS tachycardia: the PROCAMIO study

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–Dosis PROCAMIO–
Procainamida 10 mg/kg IV en 20 min
Amiodarona 5 mg/kg en 20 min

Table 5 Safety and efficacy of study drugs in patients with structural heart disease

	All patients (n = 49)	Procainamide (n = 26)	Amiodarone (n = 23)	P
Major cardiac adverse events during study period	13 (26)	3 (11)	10 (43)	0.017
Total adverse events during study period	19 (38)	8 (31)	11 (48)	0.22
Time to adverse event (min)	17 ± 10	19 ± 13	16 ± 7	0.6
Tachycardia termination during study period	26 (53)	17 (65)	9 (39)	0.069
Time to tachycardia termination (min)	15 ± 10	15 ± 11	16 ± 5	0.9
Total adverse events during the observation period	13 (26)	6 (23)	7 (30)	0.56

Top 5 – Procainamida-TIPS



- ✓ Dosis de carga 10 mg/kg en 50 mL de SG5% en 20 min
- ✓ Perfusión de 2-6 mg/min: 1-2g en 500 mL de SG5%
- ✓ Velocidad máxima 50 mg/min
- ✓ Parar la perfusión si QRS >50%

EFFECTOS ADVERSOS CARDÍACOS: hipotensión, bradicardia, prolongación del QTc

Efectos adversos extracardíacos: rash, lupus, agranulocitosis, mialgia, vasculitis

Top 1 – Nirmatrelvir-ritonavir

Top 2 – Vasopresina

Top 3 – Inclisiran (NO FINANCIADO)

Top 4 – iSGLT2 en ICFEp (NO FINANCIADO)

Top 5 – Procainamida

Gracias por su atención
Gràcies per la seva atenció
Eskerrik asko zure arretagatik
Grazas pola súa atención

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