¿Qué nos hemos perdido en los últimos meses?

SESIÓN DE ACTUALIZACIÓN MARTES 21 DE OCTUBRE <u>DE 2021</u>

SESIÓN CLÍNICA

Servicio de Medicina Interna Consorcio Hospital General Universitario de Valencia

Dr. David Rodrigo Domínguez | R3 Medicina Interna Dra. Victoria Lobo Antuña | R2 Medicina Interna

AND COMMON OBJECTS

ATION EXAMINATION SYLLABUSES IN DRAWING

ation for Elementary School Teachers' Certificate

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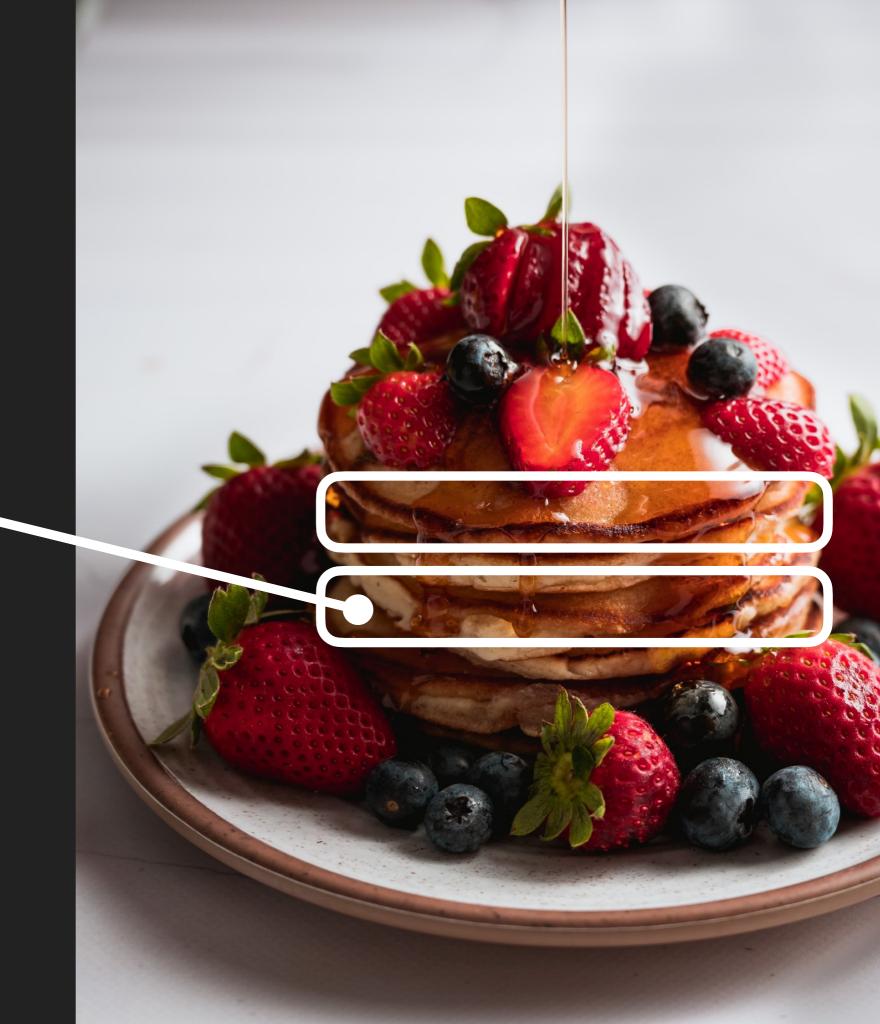
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Índice



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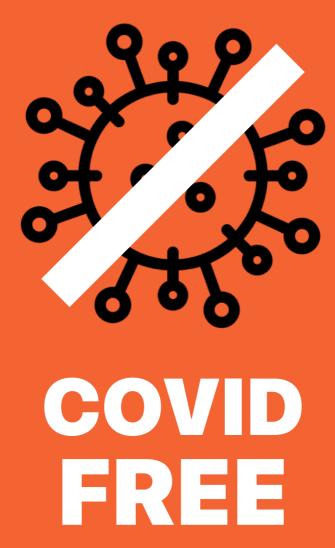
2 artículos principales



Índice

13 microrresúmenes





Artículos principales

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INATION SYLLABUSES IN DRAWING ary School Teachers' Certificate r (2) below, whichever may be chosen in each case Impression is therefore not the only factor. in attempting to draw is: "Show mein and the wise teaching. On the wise teaching."

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Van Esch HJ, van Zuylen L, Geijteman ECT, Oomen-de Hoop E, Huisman BAA,

Research

JAMA | Original Investigation | CARING FOR THE CRITICALLY ILL PATIENT

Effect of Prophylactic Subcutaneous Scopolamine Butylbromide on Death Rattle in Patients at the End of Life The SILENCE Randomized Clinical Trial

Harriëtte J. van Esch, MD; Lia van Zuylen, MD, PhD; Eric C. T. Geijteman, MD, PhD; Esther Oomen-de Hoop, PhD; Bregje A. A. Huisman, MD; Heike S. Noordzij-Nooteboom, MD; Renske Boogaard, RN; Agnes van der Heide, MD, PhD; Carin C. D. van der Rijt, MD, PhD

IMPORTANCE Death rattle, defined as noisy breathing caused by the presence of mucus in the respiratory tract, is relatively common among dying patients. Although clinical guidelines recommend anticholinergic drugs to reduce the death rattle after nonpharmacological measures fail, evidence regarding their efficacy is lacking. Given that anticholinergics only decrease mucus production, it is unknown whether prophylactic application may be more

OBJECTIVE To determine whether administration of prophylactic scopolamine butylbromide

DESIGN, SETTING, AND PARTICIPANTS A multicenter, randomized, double-blind, placebo-controlled trial was performed in 6 hospices in the Netherlands. Patients with a life expectancy of 3 or more days who were admitted to the participating hospices were asked to give advance informed consent from April 10, 2017, through December 31, 2019. When the dying phase was recognized, patients fulfilling the eligibility criteria were randomized. Of the 229 patients who provided advance informed consent, 162 were ultimately randomized.

INTERVENTIONS Administration of subcutaneous scopolamine butylbromide, 20 mg four times a day (n = 79), or placebo (n = 78).

MAIN OUTCOMES AND MEASURES The primary outcome was the occurrence of a grade 2 or higher death rattle as defined by Back (range, 0-3; 0, no rattle; 3, rattle audible standing in the door opening) measured at 2 consecutive time points with a 4-hour interval. Secondary outcomes included the time between recognizing the dying phase and the onset of a death rattle and anticholinergic adverse events.

RESULTS Among 162 patients who were randomized, 157 patients (97%; median age, 76 years [IQR, 66-84 years]; 56% women) were included in the primary analyses. A death rattle occurred in 10 patients (13%) in the scopolamine group compared with 21 patients (27%) in the placebo group (difference, 14%; 95% CI, 2%-27%, P = .02). Regarding secondary outcomes, an analysis of the time to death rattle yielded a subdistribution hazard ratio (HR) of 0.44 (95% CI, 0.20-0.92; *P* = .03; cumulative incidence at 48 hours: 8% in the scopolamine group vs 17% in the placebo group). In the scopolamine vs placebo groups, restlessness occurred in 22 of 79 patients (28%) vs 18 of 78 (23%), dry mouth in 8 of 79 (10%) vs 12 of 78 (15%), and urinary retention in 6 of 26 (23%) vs 3 of 18 (17%), respectively.

CONCLUSIONS AND RELEVANCE Among patients near the end of life, prophylactic subcutaneous scopolamine butylbromide, compared with placebo, significantly reduced TRIAL REGISTRATION trialregistar all I

+ Visual Abstract

Editorial page 1263

H Multimedia

+ Supplemental content

Van Esch HJ, van Zuylen L, Geijteman ECT, Oomen-de Hoop E, Huisman BAA,



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Background

 Frecuencia de los estertores (death rattle): 12%-92%

- Medidas:
 - No farmacológicas:

Físicas

Tranquilizar Familiares

- Medidas Farmacológicas
- No evidencia



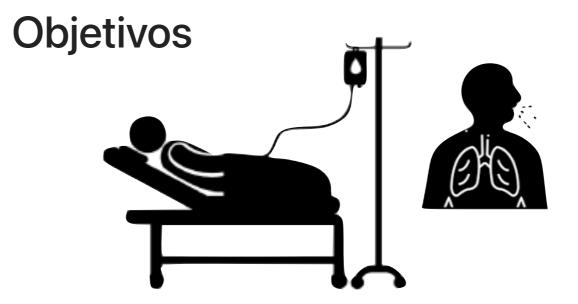
Likar R, Molnar M, Rupacher E. et al. A clinical study examining the efficacy of scopolaminehydrobromide in patients with death rattle (a randomized, double-blind, placebo-controlled study). Article in German. Zeitschrift fuer Palliativmedizin. 2002;3:15-19.

Heisler M, Hamilton G, Abbott A, Chengalaram A, Koceja T, Gerkin R. Randomized double-blind trial of sublingual atropine vs placebo for the management of death rattle. J Pain Symptom Manage. 2013;45(1):14-22.

Van Esch HJ, van Zuylen L, Geijteman



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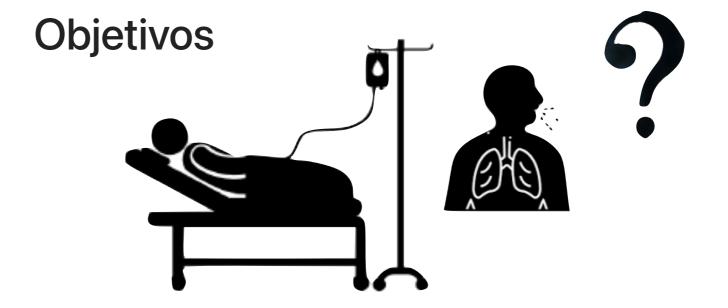


- ► SILENCE study → Determinar si el uso de escopolamina profiláctica reduce estertores
- Variables
 - Aparición estertores grado ≥ 2
 - ▶ 2as
 - tiempo de aparición de estertores tiempo aparición efectos adversos
- Exploratory end points
 - tiempo entre fase de muerte y muerte
 - uso de sedantes y otros fármacos.

Van Esch HJ, van Zuylen L, Geijteman



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Van Esch HJ, van Zuylen L, Geijteman ECT, Oomen-de Hoop E, Huisman BAA,



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Métodos

- Estudio prospectivo, multicéntrico, randomizado, doble ciego y controlado con placebo.
- Abril 2017 Diciembre 2019
- Criterios:
 - Esperanza de vida de al menos 3 días
 - Ingreso en un hospicio hasta la muerte
 - Capaz de comprender la información
 - Traqueotomía o cánula traqueal
 - 💢 Uso de anticolinérgicos sistémicos u octreotida
 - Infección respiratoria activa.

Van Esch HJ, van Zuylen L, Geijteman ECT, Oomen-de Hoop E, Huisman BAA,



JAMA | Original Investigation | CARING FOR THE CRITICALLY ILL PATIENT

Effect of Prophylactic Subcutaneous Scopolamine Butylbromide on Death Rattle in Patients at the End of Life The SILENCE Randomized Clinical Trial

Editorial page 1263

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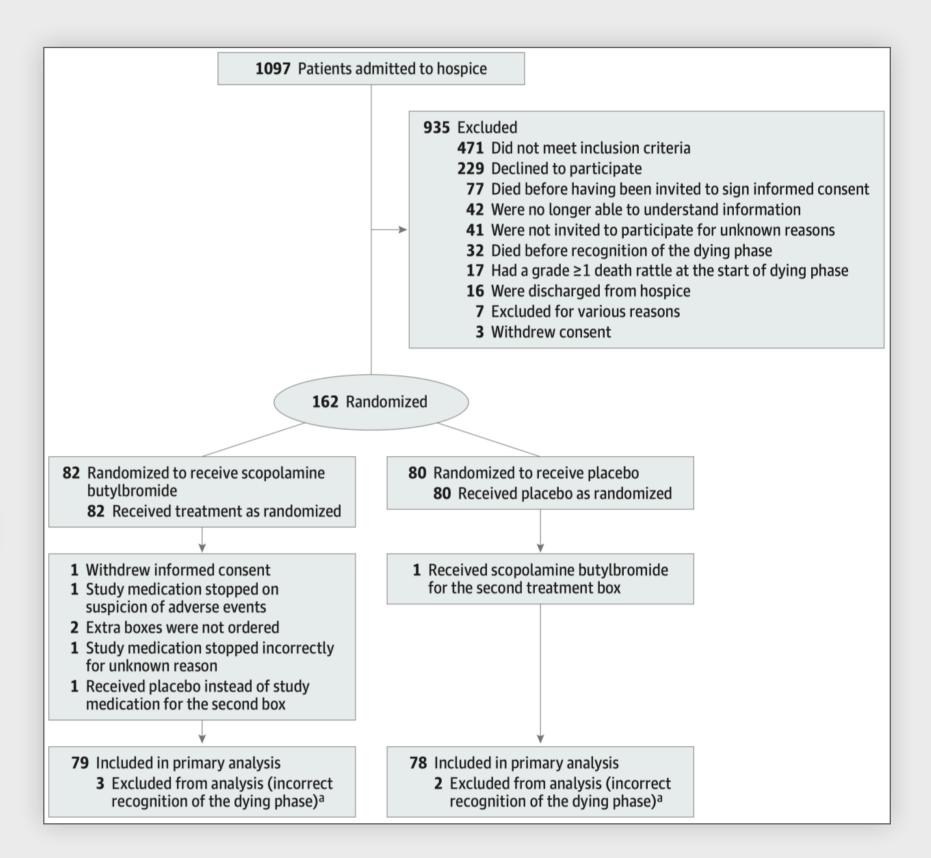
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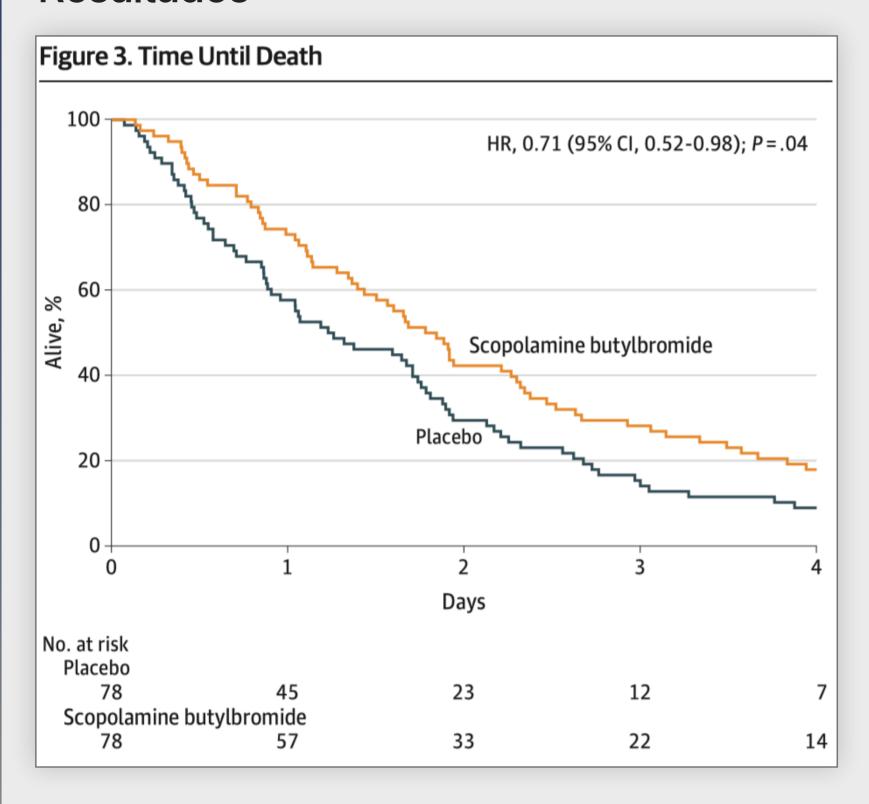
Métodos



Resultados

	No. (%)		Differences	Cumulative occurrence at 48 hb				
	Scopolamine butylbromide (n = 79)	Placebo (n = 78)	between percentages (95% CI), % ^a P value		Scopolamine butylbromide, %	Placebo, %	Sudistribution HR (95% CI) ^c	P value
Primary outcome								
Death rattle grade ≥2								
2 Time points	10 (13)	21 (27)	14 (2 to 27)	.02				
1 Time point not followed by improvement ^d	15 (19)	29 (37)	18 (4 to 32)	.01				
Secondary outcomes								
Time from the recognition of the dying phase to death rattle								
2 Time points					8	17	0.44 (0.20 to 0.92)	.03
1 Time point without improvement ^d					8	22	0.41 (0.22 to 0.78)	.006
Adverse events								
Restlessness								
CPDe	22 (28)	18 (23)	-5 (-18 to 9)		23	19	1.25 (0.67 to 2.32)	.48
VICS ^f	7 (9)	7 (9)	0 (-9 to 9)		7	7	0.99 (0.35 to 2.81)	.98
Dry mouth ^g	8 (10)	12 (15)	5 (-5 to 16)		8	12	0.65 (0.27 to 1.57)	.34
Urinary retention ^h	6/26 (23)	3/18 (17)	-6 (-30 to 17)		20	15	1.45 (0.37 to 5.69)	.60

Resultados



Van Esch HJ, van Zuylen L, Geijteman ECT, Oomen-de Hoop E, Huisman BAA,



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Conclusiones

- 1. Reducción significativa de estertores
- 2. No aumento de efectos adversos
- 3. Duración de proceso de fallecimiento mayor
- Limitaciones del estudio:
 - Baja participación en el estudio por limitaciones inclusión
 - Placebo con mayor % de patología respiratoria → post hoc analysis
 - Exclusión infecciones respiratorias
 - Administración subcutánea no siempre es posible

Comparison of Routine Replacement

JAMA Internal Medicine | Original Investigation

Comparison of Routine Replacement With Clinically Indicated Replacement of Peripheral Intravenous Catheters

Niccolò Buetti, MD, MSc; Mohamed Abbas, MD, MSc; Didier Pittet, MD, MSc; Marlieke E. A. de Kraker, PhD; Daniel Teixeira, MSc; Marie-Noëlle Chraiti, RN; Valérie Sauvan, RN; Julien Sauser, MSc; Stephan Harbarth, MD, MSc; Walter Zingg, MD

IMPORTANCE Peripheral intravenous catheters (PVCs) are the most frequently used indwelling devices in hospitals worldwide. Peripheral intravenous catheter bloodstream infections (PVC-BSIs) are rare, but severe and preventable, adverse events.

OBJECTIVE To investigate the incidence of PVC-BSIs after changing the policy of routine PVC replacement every 96 hours to clinically indicated replacement.

DESIGN, SETTING, AND PARTICIPANTS This institution-wide, observational cohort study evaluated all patients hospitalized at a large university-affiliated hospital with 10 sites in Western Switzerland with a PVC insertion between January 1, 2016, and February 29, 2020.

EXPOSURES Peripheral intravenous catheters were routinely replaced every 96 hours until March 31, 2018 (baseline period). Between April 1 and October 15, 2018, PVCs were replaced if clinically indicated (intervention period). From October 16, 2019, PVCs were again routinely

MAIN OUTCOMES AND MEASURES The PVC-BSI rates and PVC-BSI incidence rate ratios (IRRs)

RESULTS A total of 412 631 PVCs with documented catheter duration were included (164 331 patients; median [interquartile range] patient age, 51 [33-72] years; 88 928 [54.1%] female): 241 432 PVCs at baseline, 130 779 at intervention, and 40 420 at reversion. Eleven PVC-BSIs were observed during the baseline period, 46 during the intervention, and 4 during the reversion period. Although the monthly number of PVC-days remained stable during all study periods, the number of monthly inserted PVCs decreased during the intervention period. The number of PVCs still in place more than 4 or more than 7 days was higher during the intervention period compared with the baseline and reversion periods. A significantly increased IRR of PVC-BSIs was observed for the intervention period (IRR, 7.20; 95% CI, 3.65-14.22; P < .001) compared with baseline, whereas during the reversion period there was

CONCLUSIONS AND RELEVANCE The results of this cohort study using a large, prospective surveillance database suggest that replacement of PVCs only when clinically indicated may be associated with an increased risk of PVC-BSI compared with routine replacement. Even if PVC-associated BSI is a rare event, the use of PVCs in most patients makes this outcome

Supplemental content

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Corresponding Author: Niccolò Buetti, MD, MSc, Infection Control

Buetti N, Abbas M, Pittet D, de Kraker MEA, Teixeira D, Chraiti M-N, et al. Comparison of Routine Replacement With Clinically Indicated Replacement of Peripheral Intravenous Catheters. JAMA Intern Med [Internet]. 17 de septiembre de 2021 [citado 13 de octubre de 2021]; Disponible en: https://jamanetwork.com/journals/jamainternalmedicine/fullarticle/2784458



Background

RECAMBIO DE CATÉTERES VENOSOS PERIFÉRICOS ¿INDICACIÓN CLÍNICA O RUTINARIAMENTE?



NO EXISTE UNA RECOMENDACIÓN FORMAL

US Centers for Disease Control and Prevention. CDC Guidelines for the Prevention of Intravascular Catheter-Related Infections. Updated 2017.

Webster J, Osborne S, Rickard CM, Marsh N. Clinically-indicated replacement versus routine replacement of peripheral venous catheters. Cochrane Database Syst Rev. 2019;1:CD007798

Buetti N, Abbas M, Pittet D, de Kraker MEA, Teixeira D, Chraiti M-N, et al. Comparison of Routine Replacement With Clinically Indicated Replacement of Peripheral Intravenous Catheters. JAMA Intern Med [Internet]. 17 de septiembre de 2021 [citado 13 de octubre de 2021]; Disponible en: https://jamanetwork.com/journals/jamainternalmedicine/fullarticle/2784458



Objetivos

Investigar la incidencia de infecciones sanguíneas asociadas a catéter venoso periférico tras cambiar la política de recambio <u>rutinario cada 96 horas</u> a recambio <u>clínicamente indicado</u>.



- Infección sanguínea asociada a cateter venoso periférico
 - Inserción → 48h tras retirada
 - Hemocultivo positivo = cultivo punta de catéter
 - Resolución sintomática tras retirada sin otro foco infeccioso

Buetti N, Abbas M, Pittet D, de Kraker MEA, Teixeira D, Chraiti M-N, et al. Comparison of Routine Replacement With Clinically Indicated Replacement of Peripheral Intravenous Catheters. JAMA Intern Med [Internet]. 17 de septiembre de 2021 [citado 13 de octubre de 2021]; Disponible en: https://jamanetwork.com/journals/jamainternalmedicine/fullarticle/2784458



Métodos

ESTUDIO DE COHORTES

Hospital Universitario de Ginebra

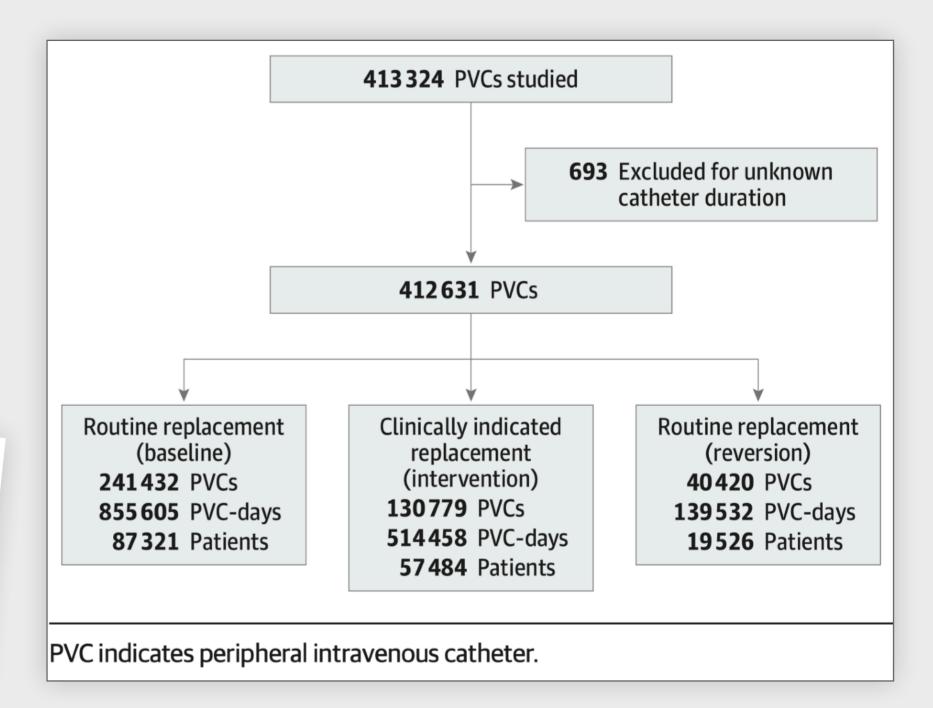
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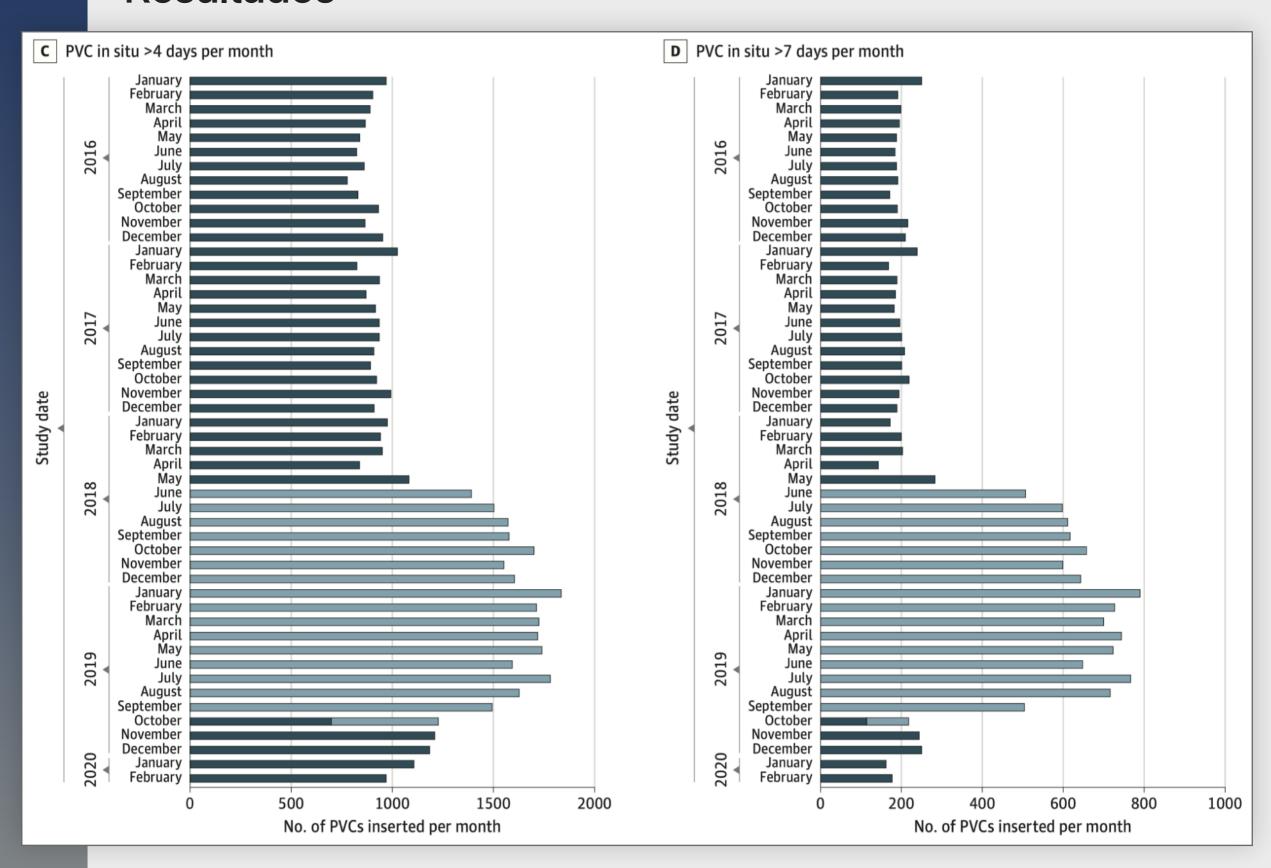
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Métodos



Resultados



Resultados

Table. Characteristics of the Study Population by Study Period ^a					
Characteristic	Baseline	Intervention	Reversion	P value	
Sex ^b					
Female	47 114 (54.0)	31 259 (54.4)	10 555 (54.1)	.28	
Male	40 207 (46.0)	26 225 (45.6)	8971 (45.9)		
Age, median (IQR) ^b	51 (33-71)	52 (33-72)	55 (35-74)	<.001	
ICU admission	7120 (2.9)	2782 (2.1)	732 (1.8)	<.001	
No. of catheters per patient, median (IQR) ^c	1 (1-2)	1 (1-2)	1 (1-2)	<.001	
Dwell time, d					
>4	26 372 (10.9)	26 656 (20.4)	5170 (12.8)	<.001	
>7	5745 (2.4)	10656 (8.1)	947 (2.3)	<.001	
Insertion site					
Forearm	130 877 (54.2)	50 584 (38.7)	15 276 (37.8)	<.001	
Arm	6930 (2.9)	2105 (1.6)	675 (1.7)		
Elbow	12 247 (5.1)	21 508 (16.4)	7530 (18.6)		
Hand	69 615 (28.8)	30 930 (23.7)	9141 (22.6)		
Other	6018 (2.5)	2636 (2.0)	771 (1.9)		
Wrist	15 745 (6.5)	23 016 (17.6)	7027 (17.4)		
Operator					
Out-of-hospital	18 909 (7.8)	10 573 (8.1)	2786 (6.9)	<.001	
In-hospital	222 523 (92.2)	120 206 (91.9)	37 634 (93.1)		
PVC-BSI	11 (<0.1)	46 (<0.1)	4 (<0.1)	<.001	

Infecciones asociadas a catéter:

Baseline: 11

intervention: 46

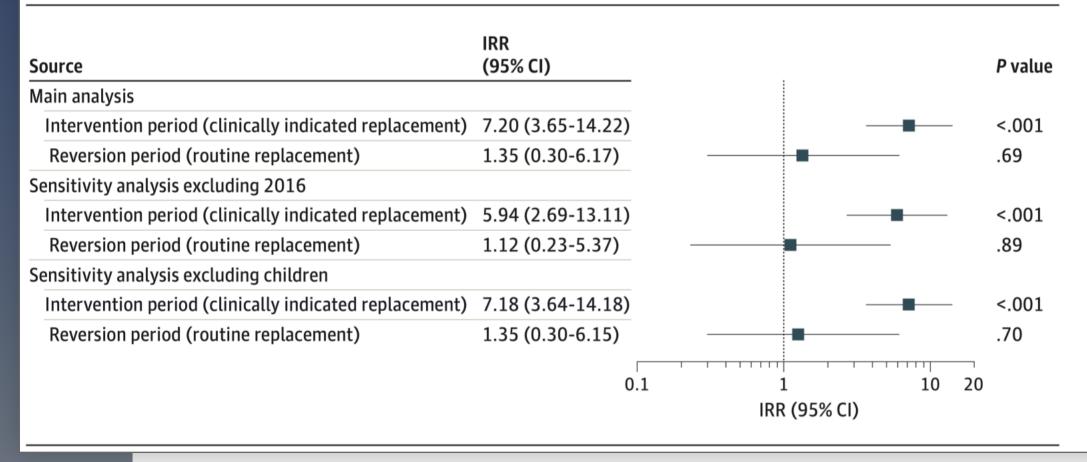
Reversion: 4

 \leq 4 DÍAS \rightarrow 12

> 4 DÍAS → 49

Resultados

Figure 4. Incidence Rate Ratios (IRRs) of Peripheral Venous Catheter-Associated Bloodstream Infections During the Intervention and Reversion Periods



The baseline period (routine replacement) served as the reference.

Buetti N, Abbas M, Pittet D, de Kraker MEA, Teixeira D, Chraiti M-N, et al. Comparison of Routine Replacement With Clinically Indicated Replacement of Peripheral Intravenous Catheters. JAMA Intern Med [Internet]. 17 de septiembre de 2021 [citado 13 de octubre de 2021]; Disponible en: https://jamanetwork.com/journals/jamainternalmedicine/fullarticle/2784458



Conclusiones

- 1. El recambio bajo <u>indicación clínica</u> parece asociarse a un <u>mayor riesgo de infecciones</u> sanguíneas asociadas a catéter comparado con el recambio rutinario.
- 2. Infección asociada a CVP es un evento raro pero relevante.
- Limitaciones del estudio:
 - Es un estudio observacional
 - Zonas de inserción cambiaron en los intervalos de tiempo
 - Periodo de reversión corto

Microrresúmenes

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Es mejor añadir metronizazol a la enfermedad pélvica inflamatoria

Wiesenfeld HC, Meyn LA, Darville T, Macio IS, Hillier SL. A Randomized Controlled Trial of Ceftriaxone and Doxycycline, With or Without Metronidazole, for the Treatment of Acute Pelvic Inflammatory Disease. Clin Infect Dis. 2021 Apr 8;72(7):1181-1189. doi: 10.1093/cid/ciaa101. PMID: 32052831; PMCID: PMC8028096.

Clinical Infectious Diseases









A Randomized Controlled Trial of Ceftriaxone and Doxycycline, With or Without Metronidazole, for the Treatment of Acute Pelvic Inflammatory Disease

Harold C. Wiesenfeld, ^{1,2} Leslie A. Meyn, ^{1,2} Toni Darville, ³ Ingrid S. Macio, ² and Sharon L. Hillier ^{1,2}

Department of Obstetrics, Gynecology and Reproductive Sciences, University of Pittsburgh, Pittsburgh, Pennsylvania, USA, ²Magee-Womens Research Institute, Pittsburgh, Pennsylvania, USA, an ²Department of Pediatrics, University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, USA

(See the Editorial Commentary by Mitchell on pages 1190-91.)

Background. Anaerobic organisms are important pathogens in acute pelvic inflammatory disease (PID). The currently recommended PID regimen of a single dose of ceftriaxone and doxycycline for 14 days has limited anaerobic activity. The need for broader anaerobic coverage is unknown and concerns have been raised about metronidazole tolerability.

Methods. We conducted a randomized, double-blind, placebo-controlled trial comparing ceftriaxone 250 mg intramuscular single dose and doxycycline for 14 days, with or without 14 days of metronidazole in women with acute PID. The primary outcome was clinical improvement at 3 days following enrollment. Additional outcomes at 30 days following treatment were the presence of anaerobic organisms in the endometrium, clinical cure (absence of fever and reduction in tenderness), adherence, and tolerability.

Results. We enrolled 233 women (116 to metronidazole and 117 to placebo). Clinical improvement at 3 days was similar between the 2 groups. At 30 days following treatment, anaerobic organisms were less frequently recovered from the endometrium in women treated with metronidazole than placebo (8% vs 21%, P < .05) and cervical *Mycoplasma genitalium* was reduced (4% vs 14%, P < .05). Pelvic tenderness was also less common among women receiving metronidazole (9% vs 20%, P < .05). Adverse events and adherence were similar in each treatment group.

Conclusions. In women treated for acute PID, the addition of metronidazole to ceftriaxone and doxycycline was well tolerated and resulted in reduced endometrial anaerobes, decreased M. genitalium, and reduced pelvic tenderness compared to ceftriaxone and doxycycline. Metronidazole should be routinely added to ceftriaxone and doxycycline for the treatment of women with acute PID.

Clinical Trials Registration. NCT01160640.

Keywords. pelvic inflammatory disease; anaerobes; metronidazole

Pelvic inflammatory disease (PID) results from ascension of microorganisms from the vagina or endocervix to the endometrium and fallopian tubes. Organisms recognized to cause PID and its sequelae include Chlamydia trachomatis and Neisseria gonorrhoeae. Mycoplasma genitalium has been associated with endometritis but its association with infertility is less certain [1]. Facultative and anaerobic microbes associated with vaginal dysbiosis have been associated with endometrial and tubal in-

of PID [5]. This regimen is effective against N. gonorrhoeae and C. trachomatis, but has limited activity against anaerobic organisms. Despite the frequent recovery of anaerobic organisms in women with acute PID, the need for antimicrobial therapy with broader anaerobic coverage is unknown. This uncertainty is reflected in the CDC guidelines that list metronidazole as an optional addition to ceftriaxone and doxycycline, while the European guidelines recommend the addition of metronidazole

Ensayo de 233 mujeres con EPI leve a moderada que fueron tratadas con ceftriaxona y doxiciclina y asignadas aleatoriamente a recibir adicionalmente metronidazol 500 mg dos veces al día o placebo durante 14 días.

- A los 30 días:
 - una menor tasa de molestias pélvicas (9 vs 20%)
 - una tendencia no significativa hacia una mayor tasa de curación (96 vs 90%).

Doxiciclina es superior a azitromicina en la infección rectal asintomática por clamidia en HSH

The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

Azithromycin or Doxycycline for Asymptomatic Rectal Chlamydia trachomatis

Andrew Lau, M.S., Fabian Y.S. Kong, Ph.D., Christopher K. Fairley, Ph.D., David J. Templeton, Ph.D., Janaki Amin, Ph.D., Samuel Phillips, Ph.D., Matthew Law, Ph.D., Marcus Y. Chen, Ph.D., Catriona S. Bradshaw, Ph.D., Basil Donovan, M.D., Anna McNulty, M.D., Mark A. Boyd, M.D., Peter Timms, Ph.D., Eric P.F. Chow, Ph.D., David G. Regan, Ph.D. Carole Khaw, M.D., David A. Lewis, Ph.D., John Kaldor, Ph.D., Mahesh Ratnayake, M.D., Natalie Carvalho, Ph.D., and Jane S. Hocking, Ph.D

ABSTRACT

m the University of Melbourne (A.L., Rectal chlamydia is a common bacterial sexually transmissible infection among men who have sex with men. Data from randomized, controlled trials are needed

Macquarie, NSW (J.A.), Central Clinical In this double-blind trial conducted at five sexual health clinics in Australia, we School, Faculty of Medicine and Health, randomly assigned men who have sex with men and who had asymptomatic rectal University of Sydney (D.J.T.), Sydney Sex.

chlamydia to receive doxycycline (100 mg twice daily for 7 days) or azithromycin

lal Health Centre (A.M., B.D.), and the School of Population Health (A.M.) and (1-g single dose). Asymptomatic chlamydia was selected as the trial focus because He Kirby Institute (D.J.T., M.L., B.D., D.G.R., J.K., J.A.), University of New South Wales, Sydney, the Department of clinical guidelines recommend a longer treatment course for symptomatic infec-Sexual Health Medicine and Sexual As- tion. The primary outcome was a negative nucleic acid amplification test for rectal chlamydia (microbiologic cure) at 4 weeks.

University of Sydney, Westmead, NSW From August 2016 through August 2019, we enrolled 625 men (314 in the doxycy-(D.A.L.), the Adelaide Sexual Health Cen-cline group and 311 in the azithromycin group). Primary outcome data were available for 200 men (0.14%) in the doxycyline group and 307 (0.55%) in the doxycyline arithmen. cline group and 311 in the azithromycin group). Primary outcome data were availtre (C.K., M.K.), and tre University of a deledied (M.A.B.), Adelaide, SA, and the University of the Sunshine Coast, Sippy mycin group. In the modified intention-to-treat population, a microbiologic cure occurred in 281 of 290 men (96.9%; 95% confidence interval [CI], 94.9 to 98.9) in occurred in 281 of 290 men (96.9%; 95% confidence interval [CI], 94.9 to 98.9) in the occurred in 281 of 290 men (96.9%; 95% confidence interval [CI], 94.9 to 98.9) in occurred in 281 of 290 men (96.9%; 95% confidence interval [CI], 94.9 to 98.9) in occurred in 281 of 290 men (96.9%; 95% confidence interval [CI], 94.9 to 98.9) in occurred in 281 of 290 men (96.9%; 95% confidence interval [CI], 94.9 to 98.9) in occurred in 281 of 290 men (96.9%; 95% confidence interval [CI], 94.9 to 98.9) in occurred in 281 of 290 men (96.9%; 95% confidence interval [CI], 94.9 to 98.9) in occurred in 281 of 290 men (96.9%; 95% confidence interval [CI], 94.9 to 98.9) in occurred in 281 of 290 men (96.9%; 95% confidence interval [CI], 94.9 to 98.9) in occurred in 281 of 290 men (96.9%; 95% confidence interval [CI], 94.9 to 98.9) in occurred in 281 of 290 men (96.9%; 95% confidence interval [CI], 94.9 to 98.9) in occurred in 281 of 290 men (96.9%; 95% confidence interval [CI], 94.9 to 98.9) in occurred in 281 of 290 men (96.9%; 95% confidence interval [CI], 94.9 to 98.9) in occurred in 281 of 290 men (96.9%; 95% confidence interval [CI], 94.9 to 98.9) in occurred in 281 of 290 men (96.9%; 95% confidence interval [CI], 94.9 to 98.9) in occurred in 281 of 290 men (96.9%; 95% confidence interval [CI], 94.9 to 98.9) in occurred in 281 of 290 men (96.9%; 95% confidence interval [CI], 94.9 to 98.9 to 98. the Melbourne School of Population and Global Health, University of Melbourne, azithromycin group. for an adjusted viel difference interval [CI], 94.9 to 98.9) in the doxycycline group and in 227 of 297 (76.4%; 95% CI, 73.8 to 79.1) in the distribution of the doxycycline group. For an adjusted viel difference interval [CI], 94.9 to 98.9) in 3/207 Bouverie St., Carlton 3053, VIC. CI, 14.6 to 25.3; P<0.001). Adverse events that included nausea, diarrhea, and vom-

- Respuesta clínica: PCR negativa de clamidia rectal a las 4 semanas.
- Una pauta de 7 días de doxiciclina (100mg cada 12h) fue superior a una dosis única de azitromicina 1g en el tratamiento de la infección rectal por clamidia entre los hombres que tienen relaciones sexuales con hombres.

CURACIÓN CLÍNICA (N=587)



F.Y.S.K., S.P., E.P.F.C., N.C., J.S.H.), the Melbourne Sexual Health Centre (C.K.F., M.Y.C., C.S.B., E.P.F.C., J.S.H.), and Monash to guide treatment. rsity (C.K.F., M.Y.C., C.S.B., E.P.F.C.), purne, VIC, Macquarie University, Sydney Sexual Health Centre, Parramatta, NSW, and Westmead Clinical School,

La antibioterapia diferida es segura y eficaz para la mayoría de infecciones respiratorias



Check for updates

Delayed antibiotic prescribing for respiratory tract infections: individual patient data meta-analysis

Beth Stuart, ¹ Hilda Hounkpatin, ¹ Taeko Becque, ¹ Guiqing Yao, ² Shihua Zhu, ¹ Pablo Alonso-Coello, ³ Attila Altiner, ⁴ Bruce Arroll, ⁵ Dankmar Böhning, ⁶ Jennifer Bostock, ⁷ Heiner C Bucher, ⁸ Jennifer Chao, ⁹ Mariam de la Poza, ¹⁰ Nick Francis, ¹ David Gillespie, ¹¹ Alastair D Hay, 12 Timothy Kenealy, 5 Christin Löffler, 4 David P McCormick, 13 Gemma Mas-Dalmau, 14 Laura Muñoz, 15 Kirsty Samuel, 16 Michael Moore, 1 Paul Little 1

For numbered affiliations see end of the article.

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Education, Faculty of Medicine,

Additional material is published online only. To view please visit

http://dx.doi.org/10.1136/bmj.n808 Accepted: 15 March 2021

ABSTRACT OBJECTIVE

To assess the overall effect of delayed antibiotic prescribing on average symptom severity for patients with respiratory tract infections in the community, and to identify any factors modifying this effect.

Systematic review and individual patient data meta-

DATA SOURCES

Cochrane Central Register of Controlled Trials, Ovid Medline, Ovid Embase, EBSCO CINAHL Plus, and Web of Science.

ELIGIBILITY CRITERIA FOR STUDY SELECTION

Randomised controlled trials and observational cohort studies in a community setting that allowed comparison between delayed versus no antibiotic prescribing, and delayed versus immediate antibiotic

MAIN OUTCOME MEASURES

The primary outcome was the average symptom severity two to four days after the initial consultation measured on a seven item scale (ranging from normal to as bad as could be). Secondary outcomes were duration of illness after the initial consultation, complications resulting in admission to hospital or death, reconsultation with the same or worsening illness, and patient satisfaction rated on a Likert

Data were obtained from nine randomised controlled trials and four observational studies, totalling 55 682 patients. No difference was found in follow up symptom severity (seven point scale) for delayed versus immediate antibiotics (adjusted mean difference -0.003, 95% confidence interval -0.12 to 0.11) or delayed versus no antibiotics (0.02, -0.11 to 0.15). Symptom duration was slightly longer in those given delayed versus immediate antibiotics (11.4 v 10.9 days), but was similar for delayed versus no antibiotics. Complications resulting in hospital admission or death were lower with delayed versus no antibiotics (odds ratio 0.62, 95% confidence interval 0.30 to 1.27) and delayed versus immediate antibiotics (0.78, 0.53 to 1.13). A significant reduction in reconsultation rates (odds ratio 0.72. 95% confidence interval 0.60 to 0.87) and an increase in patient satisfaction (adjusted mean difference 0.09, 0.06 to 0.11) were observed in delayed versus no antibiotics. The effect of delayed versus immediate antibiotics and delayed versus no antibiotics was not modified by previous duration of illness, fever, younger than 5 years had a slightly higher follow-up symptom severity with delayed antibiotics than with immediate antibiotics (adjusted mean difference 0.10, 95% confidence interval 0.03 to 0.18), but no

CONCLUSIONS

Delayed antibiotic prescribing is a safe and effective strategy for most patients, including those in higher

- Revisión sistemática y metaanálisis de datos de pacientes individuales procedentes de...
 - 9 ensayos controlados aleatorios y
 - 4 estudios observacionales
- 55 682 pacientes en total







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No and age of participants*	Condition	Intervention and comparison group	Type of delay
716; 25.3 (17.0)	Sore throat	None, immediate, delayed	Prescription to be filled if symptoms did not start to settle after 3 days
315; 5.0 (2.8)	Acute otitis media	None, immediate, delayed	Prescription collected after 72 hours if child still not improving
129; 25.6 (23.0)	Common cold	Immediate, delayed	Prescription to be filled after 3 days if symptoms fail to improve
223; 2.7 (2.7)	Acute otitis media	None, delayed	No antibiotics unless returning with acute ear symptoms within 30 days
807; 39 (20.8)	Lower respiratory tract infection	None, immediate, delayed	Prescription to be filled if symptoms not resolved after 4 days
232; 5.1 (2.4)	Acute otitis media	None, delayed	Advised to fill prescription if symptoms did not resolve in 2-3 days
889; 31.0 (21.2)	Acute respiratory tract infection	None, delayed	Four types: recontact, postdated, collection, patient led
405; 44.9 (16.6)	Acute respiratory tract infection	None, immediate, delayed	Collection or patient led if symptoms did not start to improve after a few days
437; 6.3 (3.1)	Acute respiratory tract infection	None, immediate, delayed	Collection or patient led if symptoms did not start to improve after a few days
2690; 47.8 (16.3)	Cough or lower respiratory tract infection	None, immediate, delayed	Advised to fill if symptoms did not start to improve after 2-7 days
12 626; 34.0 (14.6)	Sore throat	None, immediate, delayed	Patient led
28 856; 51.7 (17.9)	Acute lower respiratory tract infection	None, immediate, delayed	Advised to fill if symptoms did not start to improve; median advised delay=3 days
8320; 3.9 (3.7)	Acute cough and respiratory tract infection	None, immediate, delayed	Advised to fill if symptoms did not start to improve; median advised delay=3 days
available			
114; 7.5 (2.6); 7.8 (2.3)	Sore throat	Immediate, delayed	No detail
113; NR	Sore throat	Immediate, delayed	No detail
229; 7.8 (0.23); 8.3 (0.24)	Sore throat	Immediate, delayed	No detail
191; 41.6	Cough	Immediate, delayed	Patient to pick up prescription after 1 week of delay
283; 3.2	Acute otitis media	Immediate, delayed	No detail
194; 5	Acute otitis media	Immediate, delayed	To be filled only if symptoms did not improve within 2 days
1672; 4.8	Acute otitis media	Immediate, delayed	No detail
144; NR Acute otitis media		Immediate, delayed	To be filled only if symptoms did not improve within 2 days
120; 47.6 (16.3); 48 (17.8)	Acute cough or sore throat	Immediate, delayed	No detail

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Delayed antibiotic prescribing is a safe and effective strategy for most patients, including those in higher

- Sin diferencias en la gravedad de los síntomas.
- 12 horas más de duración de síntomas en los que recibieron antibióticos diferidos frente a inmediatos.
- Las complicaciones con ingresos o muertes fueron menores con los antibióticos diferidos...

frente a los no administrados ↓38% (OR 0,30-1,27),

frente a los inmediatos ↓22% (OR 0,53-1,13).

- ► Reconsultas ↓28% (OR 0,60-0,87) y ↑ satisfacción del paciente VS ausencia de antibióticos.
- El efecto de los antibióticos diferidos no se modificó por la duración previa de la enfermedad, la fiebre, la comorbilidad o la gravedad de los síntomas. Los niños menores de 5 años tuvieron mayor gravedad de los síntomas, pero no los de mayor edad.

Donanemab (ac. anti-amiloide β) apenas reduce el declive cognitivo y funcional tras año y medio en alzheimer

The NEW ENGLAND JOURNAL of MEDICINE

Donanemab in Early Alzheimer's Disease

Mark A. Mintun, M.D., Albert C. Lo, M.D., Ph.D., Cynthia Duggan Evans, Ph.D., Alette M. Wessels, Ph.D. Paul A. Ardayfio, Ph.D., Scott W. Andersen, M.S., Sergey Shcherbinin, Ph.D., JonDavid Sparks, Ph.D., John R. Sims, M.D., Miroslaw Brys, M.D., Ph.D., Liana G. Apostolova, M.D., Stephen P. Salloway, M.D. and Daniel M. Skovronsky, M.D., Ph.D.

ABSTRACT

A hallmark of Alzheimer's disease is the accumulation of amyloid- β (A β) peptide. From Eli Lilly (M.A.M., A.C.L., C.D.E Donanemab, an antibody that targets a modified form of deposited A β , is being investigated for the treatment of early Alzheimer's disease.

We conducted a phase 2 trial of donanemab in patients with early symptomatic Alzheimer's disease who had tau and amyloid deposition on positron-emission tomography (PET). Patients were randomly assigned in a 1:1 ratio to receive donanemab (700 mg for the first three doses and 1400 mg thereafter) or placebo intravenously every 4 weeks for up to 72 weeks. The primary outcome was the change from baseline in the score on the Integrated Alzheimer's Disease Rating

(S.P.S.). Address reprint requests to Dr.

Mintun at Eli Lilly, Lilly Corporate Center, Scale (iADRS; range, 0 to 144, with lower scores indicating greater cognitive and functional impairment) at 76 weeks. Secondary outcomes included the change in lilly.com. scores on the Clinical Dementia Rating Scale-Sum of Boxes (CDR-SB), the 13-item This article was published on March 13, cognitive subscale of the Alzheimer's Disease Assessment Scale (ADAS-Cog.,), the 2021, at NEJM.org. Alzheimer's Disease Cooperative Study-Instrumental Activities of Daily Living N Engl J Med 2021;384:1691-704. Inventory (ADCS-iADL), and the Mini-Mental State Examination (MMSE), as well as the change in the amyloid and tau burden on PET.

A.M.W., P.A.A., S.W.A., S.S., J.S., J.R.S., M.B., D.M.S.) and the Departments of Neurology, of Radiology and Imaging Sciences, and of Medical and Molecular Genetics and the Indiana Alzheimer Disease Center, Indiana University School of Medicine (L.G.A.) — both in Indianapolis; and the Departments of Psychiatry and Human Behavior and of Neurology, Butler Hospital, Warren Alpert Medical School Indianapolis, IN 46285, or at mintun@

DOI: 10.1056/NEJMoa2100708
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A total of 257 patients were enrolled; 131 were assigned to receive donanemab and 126 to receive placebo. The baseline iADRS score was 106 in both groups. The change from baseline in the iADRS score at 76 weeks was -6.86 with donanemab

PHASE 2, MULTICENTER, DOUBLE-BLIND, RANDOMIZED, CONTROLLED TRIAL

Patients 60–85 years of age with early symptomatic Alzheimer's disease

Change from baseline in iADRS score at 76 wk



BETTER



Placebo

-6.86

-10.06

Difference, 3.20; 95% CI, 0.12 to 6.27; P=0.04

No substantial difference in most secondary outcomes (including scores on dementia, cognitive, daily living, and mental state instruments)

Amyloid-related cerebral edema or effusions

26.7%

0.8%

Donanemab resulted in less decline in a composite score of cognitive and functional impairment at 76 wk

Donanemab (ac. anti-amiloide β) apenas reduce el declive cognitivo y funcional tras año y medio en alzheimer

The NEW ENGLAND JOURNAL of MEDICINE

Donanemab in Early Alzheimer's Disease

Mark A. Mintun, M.D., Albert C. Lo, M.D., Ph.D., Cynthia Duggan Evans, Ph.D., Alette M. Wessels, Ph.D. Paul A. Ardayfio, Ph.D., Scott W. Andersen, M.S., Sergey Shcherbinin, Ph.D., JonDavid Sparks, Ph.D., John R. Sims, M.D., Miroslaw Brys, M.D., Ph.D., Liana G. Apostolova, M.D., Stephen P. Salloway, M.D. and Daniel M. Skovronsky, M.D., Ph.D.

ABSTRACT

A hallmark of Alzheimer's disease is the accumulation of amyloid- β (A β) peptide. From Eli Lilly (M.A.M., A.C.L., C.D.E Donanemab, an antibody that targets a modified form of deposited A β , is being investigated for the treatment of early Alzheimer's disease.

We conducted a phase 2 trial of donanemab in patients with early symptomatic Alzheimer's disease who had tau and amyloid deposition on positron-emission tomography (PET). Patients were randomly assigned in a 1:1 ratio to receive donanemab (700 mg for the first three doses and 1400 mg thereafter) or placebo intravenously every 4 weeks for up to 72 weeks. The primary outcome was the change from baseline in the score on the Integrated Alzheimer's Disease Rating Scale (iADRS; range, 0 to 144, with lower scores indicating greater cognitive and functional impairment) at 76 weeks. Secondary outcomes included the change in scores on the Clinical Dementia Rating Scale–Sum of Boxes (CDR-SB), the 13-item cognitive subscale of the Alzheimer's Disease Assessment Scale (ADAS-Cog.,), the Alzheimer's Disease Cooperative Study-Instrumental Activities of Daily Living N Engl J Med 2021;384:1691-704. Inventory (ADCS-iADL), and the Mini-Mental State Examination (MMSE), as well as the change in the amyloid and tau burden on PET.

A.M.W., P.A.A., S.W.A., S.S., J.S., J.R.S., M.B., D.M.S.) and the Departments of Neurology, of Radiology and Imaging Sciences, and of Medical and Molecular Genetics and the Indiana Alzheimer Disease Center, Indiana University School of Medicine (L.G.A.) — both in Indianapolis; and the Departments of Psychiatry and Human Behavior and of Neurology, Butler Hospital, Warren Alpert Medical School of Brown University, Providence, RI (S.P.S.). Address reprint requests to Dr. Mintun at Eli Lilly, Lilly Corporate Center, Indianapolis, IN 46285, or at mintun@

2021, at NEJM.org.

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A total of 257 patients were enrolled; 131 were assigned to receive donanemab and 126 to receive placebo. The baseline iADRS score was 106 in both groups. The change from baseline in the iADRS score at 76 weeks was -6.86 with donanemab

PHASE 2, MULTICENTER, DOUBLE-BLIND, RANDOMIZED, CONTROLLED TRIAL



No substantial difference in most secondary outcomes (including scores on dementia, cognitive, daily living, and mental state instruments)

Amyloid-related cerebral edema or effusions

26.7%

0.8%

Donanemab resulted in less decline in a composite score of cognitive and functional impairment at 76 wk

Supported by Eli Lilly.

Dr. Mintun reports being employed by and owning shares in Eli Lilly and being employed by Avid Radiopharmaceuticals; Dr. Lo, being employed by and owning stocks and shares in Eli Lilly; Dr. Duggan Evans, being employed by and owning stocks in Eli Lilly; Dr. Wessels, being employed by and owning shares in Eli Lilly; Dr. Ardayfio, being employed by and owning stocks in Eli Lilly; Dr. Andersen, being employed by and owning shares in Eli Lilly; Dr. Shcherbinin, being employed by and owning stocks in Eli Lilly; Dr. Sparks, being employed by and owning stocks in Eli Lilly; Dr. Sims, being employed by and owning stocks in Eli Lilly; Dr. Brys, being employed by and owning stocks in Eli Lilly; Dr. Apostolova, receiving donated supplies from Avid Radiopharmaceuticals, grant support and research support from Roche Diagnostics, research support from Life Molecular Imaging, and consulting fees from Biogen and Two Labs and serving on a data and safety monitoring board for IQVIA; Dr. Salloway, receiving grant support and consulting fees from Biogen, Eisai, Eli Lilly, Genentech, and Roche and consulting fees and travel support from Avid Radiopharmaceuticals; and Dr. Skovronsky, being employed by and owning shares in

Abelacimab (antifactor XI) reduce el riesgo de TVP tras artroplastia de rodilla

The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

Abelacimab for Prevention of Venous Thromboembolism

Peter Verhamme, M.D., B. Alexander Yi, M.D., Ph.D., Annelise Segers, M.D., Janeen Salter, B.S.N., Daniel Bloomfield, M.D., Harry R. Büller, M.D., Gary E. Raskob, Ph.D., and Jeffrey I. Weitz, M.D., for the ANT-005 TKA Investigators*

ABSTRACT

The role of factor XI in the pathogenesis of postoperative venous thromboembolism is uncertain. Abelacimab is a monoclonal antibody that binds to factor XI and locks it in the zymogen (inactive precursor) conformation.

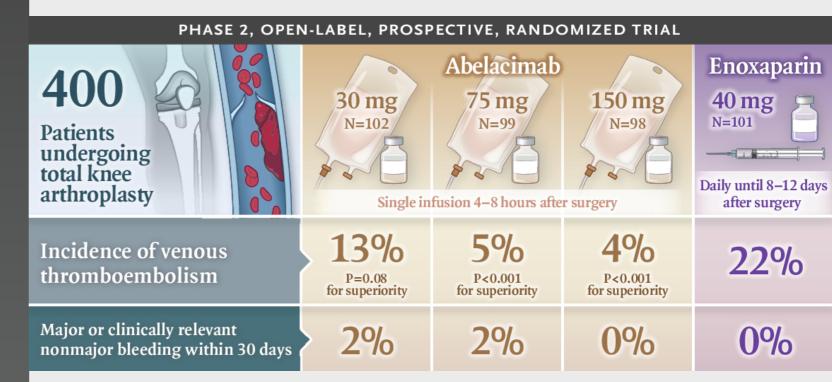
In this open-label, parallel-group trial, we randomly assigned 412 patients who were undergoing total knee arthroplasty to receive one of three regimens of abelacimab (30 mg, 75 mg, or 150 mg) administered postoperatively in a single intravenous dose or to receive 40 mg of enoxaparin administered subcutaneously once daily. The primary efficacy outcome was venous thromboembolism, detected by mandatory venography of the leg involved in the operation or objective confirmation of symptomatic events. The principal safety outcome was a composite of major or clinically relevant nonmajor bleeding up to 30 days after surgery.

Venous thromboembolism occurred in 13 of 102 patients (13%) in the 30-mg abelacimab group, 5 of 99 patients (5%) in the 75-mg abelacimab group, and 4 of 98 patients (4%) in the 150-mg abelacimab group, as compared with 22 of 101 patients (22%) in the enoxaparin group. The 30-mg abelacimab regimen was noninferior to enoxaparin, and the 75-mg and 150-mg abelacimab regimens were superior to at NEJM.org. enoxaparin (P<0.001). Bleeding occurred in 2%, 2%, and none of the patients in This article was published on July 19, the 30-mg, 75-mg, and 150-mg abelacimab groups, respectively, and in none of the 2021, at NEJM.org. patients in the enoxaparin group.

From KU Leuven Department of Cardio vascular Sciences, Vascular Medicine and Hemostasis, Leuven, Belgium (P.V.) nthos Therapeutics, Cambridge, MA (B.A.Y., I.S., D.B.); International Trial Expertise Advisory and Services (A.S.) and the Department of Vascular Medicine, Academic Medical Center, University of Amsterdam (H.R.B.) — both in Amste dam; Hudson College of Public Health, University of Oklahoma Health Science Thrombosis and Atherosclerosis Re search Institute, McMaster University Hamilton, ON, Canada (J.I.W.). Address reprint requests to Dr. Weitz at the Thrombosis and Atherosclerosis Re-search Institute, 237 Barton St. East, Hamilton, ON, Canada L8L 2X2, or at weitzj@taari.ca.

*A complete list of investigators and committees in the ANT-005 TKA (Total Knee Arthroplasty) trial is provided in the Supplementary Appendix, available

N Engl | Med 2021;385:609-17.



Monoclonal totalmente humano que se une al dominio catalítico del factor XI y lo bloquea en la conformación zimógena (precursor inactivo), impidiendo así su activación por el factor XIIa o la trombina.

Nueva estimación del FG sin incluir un factor racial

The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

New Creatinine- and Cystatin C-Based Equations to Estimate GFR without Race

L.A. Inker, N.D. Eneanya, J. Coresh, H. Tighiouart, D. Wang, Y. Sang, D.C. Crews, A. Doria, M.M. Estrella, M. Froissart, M.E. Grams, T. Greene, A. Grubb, A. Doria, M.M. Estrella, M. Froissart, M.E. Grams, T. Greene, A. Grubo, V. Gudnason, O.M. Gutiérrez, R. Kalil, A.B. Karger, M. Mauer, G. Navis, R.G. Nelson, E.D. Poggio, R. Rodby, P. Rossing, A.D. Rule, E. Selvin, J.C. Seegmiller M.G. Shlipak, V.E. Torres, W. Yang, S.H. Ballew, S.J. Couture, N.R. Powe and A.S. Levey, for the Chronic Kidney Disease Epidemiology Collaboration

ABSTRACT

Current equations for estimated glomerular filtration rate (eGFR) that use serum creatinine or cystatin C incorporate age, sex, and race to estimate measured GFR.

The authors' full names, academic degrees, and affiliations are listed in the Appendix. Address reprint requests to Dr. Inker at the Division of Nephrology,

We developed new eGFR equations without race using data from two development data sets: 10 studies (8254 participants, 31.5% Black) for serum creatinine and 13 studies (5352 participants, 39.7% Black) for both serum creatinine and cystatin C. In a validation data set of 12 studies (4050 participants, 14.3% Black), we compared the accuracy of new eGFR equations to measured GFR. We projected the prevathe accuracy or new curk equations to measured the projected the pievalence of chronic kidney disease (CKD) and GFR stages in a sample of U.S. adults,

In the validation data set, the current creatinine equation that uses age, sex, and Copyright © 2021 Massachuses of body-surface area; 95% confidence interval [CI], 1.8 to 5.4) and to a lesser degree in non-Blacks (median, 0.5 ml per minute per 1.73 m²; 95% CI, 0.0 to 0.9). When the adjustment for Black race was omitted from the current eGFR equation, when the adjustment for plack race was offined from the current corn equation, measured GFR in Blacks was underestimated (median, 7.1 ml per minute per 1.73 m²; 95% CI, 5.9 to 8.8). A new equation using age and sex and omitting race underestimated the second of 95% cl, 3.9 to 0.0). A new equation using age and sex and ountering face underestimated measured GFR in Blacks (median, 3.6 ml per minute per 1.73 m²; 95% Cl, 1.8 to 5.5) and overestimated measured GFR in non-Blacks (median 3 c

Disease Epidemiology Collab available at NEJM.org.

This article was published on Septe

DOI: 10.1056/NEJMoa2102953

- Anteriormente, la CKD-EPI utilizada para estimar la tasa de filtración glomerular incluía un término para la raza → para cualquier edad, sexo y creatinina sérica, un individuo negro tendría un FG estimado más alto.
- ► La Sociedad Americana de Nefrología y la Fundación Nacional del Riñón reevaluaron la inclusión de la raza en la estimación de la TFG y determinaron que una nueva ecuación que no incluía la raza era suficientemente precisa para su uso clínico. Sus posibles consecuencias adversas no afectan desproporcionadamente a ningún grupo y está disponible de inmediato para todos los laboratorios.
- Recomiendan uso mayor, rutinario y oportuno de la cistatina C, especialmente para confirmar la TFGe en adultos para la toma de decisiones clínicas.

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En la IRA hipoxémica en la UCI, un objetivo de oxigenación más bajo no aumenta supervivencia

The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

Lower or Higher Oxygenation Targets for Acute Hypoxemic Respiratory Failure

O.L. Schjørring, T.L. Klitgaard, A. Perner, J. Wetterslev, T. Lange, M. Siegemund, M. Bäcklund, F. Keus, J.H. Laake, M. Morgan, K.M. Thormar, S.A. Rosborg, J. Bisgaard, A.E.S. Erntgaard, A.-S.H. Lynnerup, R.L. Pedersen, E. Crescioli, T.C. Gielstrup, M.T. Behzadi, L.M. Poulsen, S. Estrup, J.P. Laigaard, C. Andersen, C.B. Mortensen, B.A. Brand, J. White, I.-L. Jarnvig, M.H. Møller, L. Quist, M.H. Bestle, M. Schønemann-Lund, M.K. Kamper, M. Hindborg, A. Hollinger, C.E. Gebhard, N. Zellweger, C.S. Meyhoff, M. Hjort, L.K. Bech, T. Grøfte, H. Bundgaard, L.H.M. Østergaard, M.A. Thyø, T. Hildebrandt, B. Uslu, C.G. Sølling, N. Møller-Nielsen, A.C. Brøchner, M. Borup, M. Okkonen, W. Dieperink, U.G. Pedersen, A.S. Andreasen, L. Buus, T.N. Aslam, R.R. Winding, J.C. Schefold, S.B. Thorup, S.A. Iversen, J. Engstrøm, M.-B.N. Kjær, and B.S. Rasmussen, for the HOT-ICU Investigators*

ARSTRACT

Patients with acute hypoxemic respiratory failure in the intensive care unit (ICU) The authors' full names, academic deare treated with supplemental oxygen, but the benefits and harms of different poxygenation targets are unclear. We hypothesized that using a lower target for paramsusers at the Department of Anestrope tial pressure of arterial oxygen (Pao₂) would result in lower mortality than using a thesia and Intensive Care, Aalborg Unihigher target.

In this multicenter trial, we randomly assigned 2928 adult patients who had recently Accomplete list of investigators in the hear admitted to the ICII (412 hours before randomization) and who were received.

HOT-ICU trial is provided in the Supplebeen admitted to the ICU (≤12 hours before randomization) and who were receiving at least 10 liters of oxygen per minute in an open system or had a fraction of inspired oxygen of at least 0.50 in a closed system to receive oxygen therapy targeting a Pao, of either 60 mm Hg (lower-oxygenation group) or 90 mm Hg (higheroxygenation group) for a maximum of 90 days. The primary outcome was death within 90 days.

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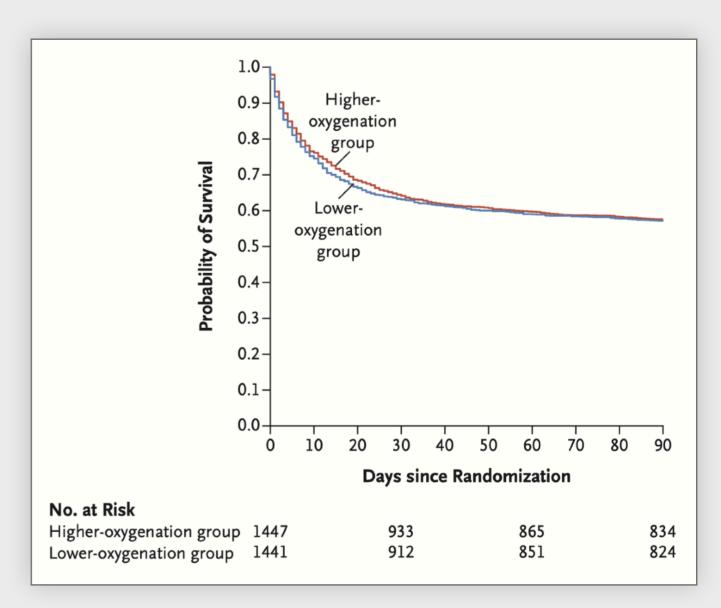
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- Objetivo de PaO₂ 60 vs 90 mmHg durante un máximo de 90 días
- A los 90 días, no mejora mortalidad (HR 1,04 IC 95% [0,93 a 1,16]), necesidad de UCI, días de vida tras el alta hospitalaria ni eventos adversos graves



El acamprosato es la única intervención en AP con suficiente evidencia para el **mantenimiento de** la abstinencia alcohólica 1 año tras desintoxicación

Treatment interventions to maintain abstinence from alcohol in

Hung-Yuan Cheng, Luke A McGuinness, Roy G Elbers, Georgina J MacArthur, Abigail Taylor,

primary care: systematic review and network meta-analysis

Alexandra McAleenan, ¹ Sarah Dawson, ¹ José A López-López, ^{1,2} Julian P T Higgins, Sean Cowlishaw, 1,5 Anne Lingford-Hughes, 6 Matthew Hickman, 1,3,4 David Kessler 1





For numbered affiliations see end of the article.

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(ORCID 0000-0001-5333-132X) Additional material is published online only. To view please visit the journal online

Cite this as: BM/ 2020;371:m3934

ABSTRACT

To determine the most effective interventions in recently detoxified, alcohol dependent patients for

DESIGN

Systematic review and network meta-analysis

DATA SOURCES

Medline, Embase, PsycINFO, Cochrane CENTRAL ClinicalTrials.gov, and the World Health Organization's International Clinical Trials Registry Platform.

STUDY SELECTION

Randomised controlled trials comparing two or more interventions that could be used in primary care. The population was patients with alcohol dependency diagnosed by standardised clinical tools and who became detoxified within four weeks

DATA EXTRACTION

Outcomes of interest were continuous abstinence from alcohol (effectiveness) and all cause dropouts (as a proxy for acceptability) at least 12 weeks after

RESULTS

64 trials (43 interventions) were included. The median probability of abstinence across placebo arms was 25%. Compared with placebo, the only intervention associated with increased probability of abstinence and moderate certainty evidence was acamprosate (odds ratio 1.86, 95% confidence interval 1.49 to 2.33, corresponding to an absolute probability of 38%). Of the 62 included trials that

reported all cause dropouts, interventions associated with a reduced number of dropouts compared with placebo (probability 50%) and moderate certainty of evidence were acamprosate (0.73, 0.62 to 0.86 42%), naltrexone (0.70, 0.50 to 0.98; 41%), and acamprosate-naltrexone (0.30, 0.13 to 0.67; 17%). Acamprosate was the only intervention associated with moderate confidence in the evidence of effectiveness and acceptability up to 12 months. It is uncertain whether other interventions can help maintain abstinence and reduce dropouts because of low confidence in the evidence.

CONCLUSIONS

Evidence is lacking for benefit from interventions that could be implemented in primary care settings for alcohol abstinence, other than for acamprosate, More evidence from high quality randomised controlled trials is needed, as are strategies using combined interventions (combinations of drug interventions or drug and psychosocial interventions) to improve treatment of alcohol dependency in primary care. SYSTEMATIC REVIEW REGISTRATION PROSPERO CRD42016049779

In the United Kingdom, the morbidity and mortality burden from alcohol consumption remains high, with 7% of hospital admissions related to alcohol.1 Liver disease is the third most common cause of premature death in the UK and the only major cause of death that is on the increase, with about two thirds of such deaths related to alcohol.2 Alcohol related harm is estimated to cost the UK National Health Service £3.5bn (\$4.5bn) €3.9bn) annually, with the total annual cost to the UK

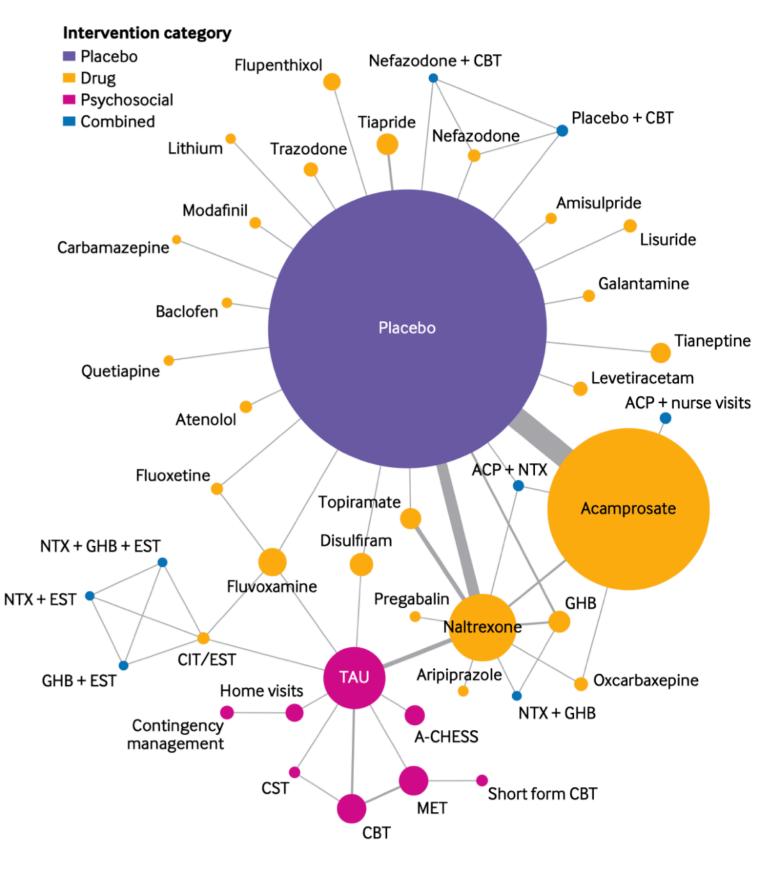


Fig 3 | Network plots for all cause dropouts in relation to treatment for alcohol dependency. Size of circles is proportional to number of randomised patients and width of lines is proportional to number of studies in each direct comparison. A-CHESS=Addiction-Comprehensive Health Enhancement Support System; ACP=acamprosate; CBT=cognitive behavioural therapy; CIT=citalopram; CST=coping skill training; GHB=sodium salt of gamma hydroxybutyric acid (sodium oxybate); MET=motivational enhancement therapy; NTX=naltrexone; TAU=treatment as usual

MICRORRES

dropouts (position)

Ranking in reducing all

El acamp única inte con sufici para el **m**a la abstine 1 año tras



Hung-Yuan Che Alexandra McA Sean Cowlisha

ABSTRACT **OBJECTIVE**

DESIGN

To determine the recently detoxifie

For numbered affiliations see end of the article.

Correspondence to: D Kessler Office Room BF12, Oakfield House, Oakfield Grove, Clifton, Bristol, BS8 2BN, UK david. (ORCID 0000-0001-5333-132X)

Additional material is published online only. To view please visit Cite this as: BMJ 2020;371:m3934

DATA SOURCES Medline, Embase ClinicalTrials.gov

> STUDY SELECTIO Randomised con population was p diagnosed by sta became detoxifi

DATA EXTRACTIO

Outcomes of interest were co from alcohol (effectiveness) and all cause dropouts (as a proxy for acceptability) at least 12 weeks after

RESULTS

64 trials (43 interventions) were included. The median probability of abstinence across placebo arms was 25%. Compared with placebo, the only intervention associated with increased probability of abstinence and moderate certainty evidence was acamprosate (odds ratio 1.86, 95% confidence interval 1.49 to 2.33, corresponding to an absolute probability of 38%). Of the 62 included trials that

43 Carbamazepine Confidence in evidence (all cause dropouts, abstinence) CIT/EST Moderate, Moderate **Flupenthixol** Low, Moderate Fluvoxamine Low. Low CST Amisulpride Low, Very Low Tianeptine Very low, Low Nefazodone Lisuride Very low, Very low Modafinil MET Reference Galantamine **CBT** A-CHESS Atenolol TAU Lithium Fluoxetine Disulfiram Nefazodone + CBT NTX + GHB + EST NTX + EST Placebo' GHB + EST 22 Placebo + CBT Trazodone Quetiapine Baclofen **Aripiprazole** Acamprosate Tiapride NTX + GHB GHB Naltrexone Oxcarbaxepine Contingency Levetiracetam management **Topiramate** ACP + NTX Pregabalin Home visits ACP + nurse visits Short form CBT 22 43

Ranking in achieving abstinence (position)

treatment of alcohol dependency in primary care SYSTEMATIC REVIEW REGISTRATION PROSPERO CRD42016049779

In the United Kingdom, the morbidity and mortality burden from alcohol consumption remains high, with 7% of hospital admissions related to alcohol.1 Liver disease is the third most common cause of premature death in the UK and the only major cause of death that is on the increase, with about two thirds of such deaths related to alcohol.2 Alcohol related harm is estimated to cost the UK National Health Service £3.5bn (\$4.5bn: €3.9bn) annually, with the total annual cost to the UK

Fig 4 | Clustered ranking plot by mean rank values from results of network meta-analyses of abstinence and all cause dropouts. Interventions are coloured according to the confidence of evidence by outline (abstinence) and fill (all cause dropout). The interventions in the white zone were ranked better than placebo based on both outcomes. A-CHESS=Addiction-Comprehensive Health Enhancement Support System; ACP=acamprosate; CBT=cognitive behavioural therapy; CIT=citalopram; EST=escitalopram; CST=coping skill training; GHB=sodium salt of gamma hydroxybutyric acid (sodium oxybate); MET=motivational enhancement therapy; NTX=naltrexone; TAU=treatment as usual

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A total of 20,995 persons were enrolled in the trial. The mean age of the participants was 65.4 years, and 49.5% were female, 72.6% had a history of stroke, and DOI: 10.1056/NEJMoa2105675 88.4% a history of hypertension. The mean duration of follow-up was 4.74 years. The rate of stroke was lower with the salt substitute than with regular salt (29.14 events vs. 33.65 events per 1000 person-years; rate ratio, 0.86; 95% confidence interval [CI], 0.77 to 0.96; P=0.006), as were the rates of major cardiovascular events

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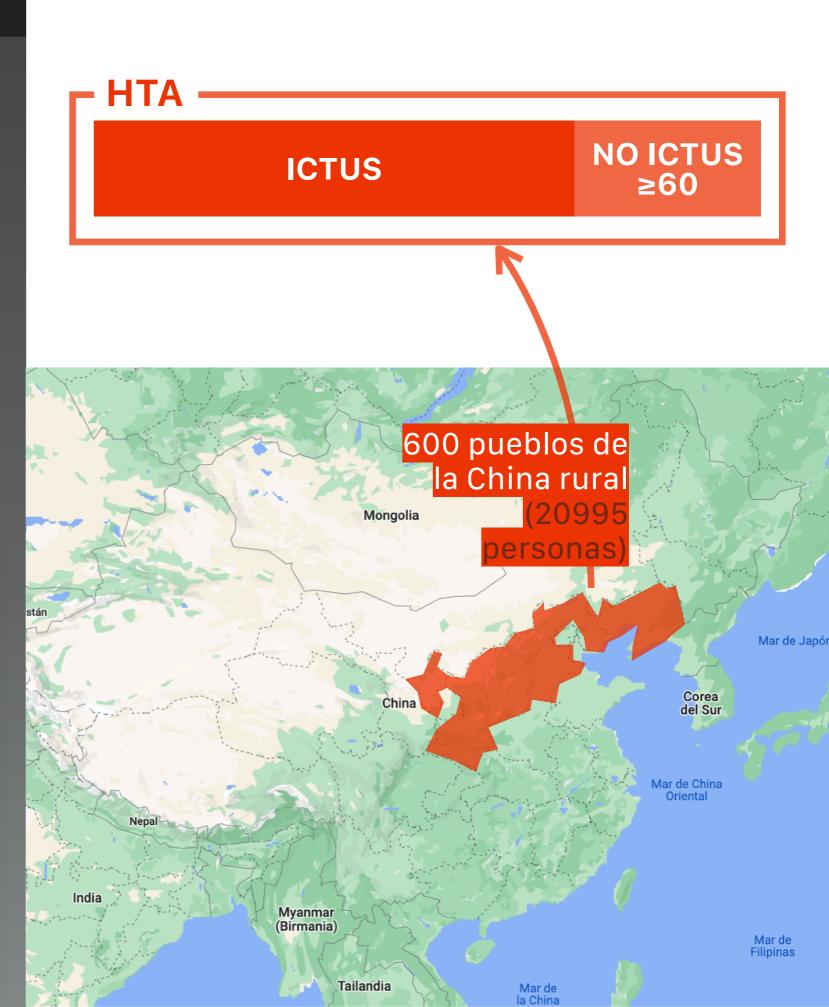
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- Ictus ↓14%
- Eventos CV mayores ↓13%

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- ✓ Eventos CV mayores ↓13%
- ✓ Muerte por cualquier causa ↓12%

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- Muerte por cualquier causa ↓12%
- Sin aumento de hiperpotasemia

MÁS LECTURAS DE INTERÉS...

Pirfenidona en ICFpEF con fibrosis miocárdica reduce levemente el volumen extracelular miocárdico (-1,21%; IC del 95%, -2,12 a -0,31; p = 0,009) en un ensayo fase 2



ARTICLES

Pirfenidone in heart failure with preserved ejection fraction: a randomized phase 2 trial

Gavin A. Lewis 12, Susanna Dodd3, Dannii Clayton 154, Emma Bedson4, Helen Eccleson4, Erik B. Schelbert @5.6.7. Josephine H. Naish¹. Beatriz Duran Jimenez². Simon G. Williams². Colin Cunnington², Fozia Zahir Ahmed^{1,2}, Anne Cooper⁸, Rajavarma Viswesvaraiah⁹, Stuart Russell¹⁰, Theresa McDonagh¹¹, Paula R. Williamson³ and Christopher A. Miller ^{(1),2,12} ⊠

In heart failure with preserved ejection fraction (HFpEF), the occurrence of myocardial fibrosis is associated with adverse outcome. Whether pirfenidone, an oral antifibrotic agent without hemodynamic effect, is efficacious and safe for the treatment of HFpEF is unknown. In this double-blind, phase 2 trial (NCT02932566), we enrolled patients with heart failure, an ejection fraction of 45% or higher and elevated levels of natriuretic peptides. Eligible patients underwent cardiovascular magnetic resonance and those with evidence of myocardial fibrosis, defined as a myocardial extracellular volume of 27% or greater, were randomly assigned to receive pirfenidone or placebo for 52 weeks. Forty-seven patients were randomized to each of the pirfenidone and placebo groups. The primary outcome was change in myocardial extracellular volume, from baseline to 52 weeks. In comparison to placebo, pirfenidone reduced myocardial extracellular volume (between-group difference, -1.21%; 95% confidence interval, -2.12 to -0.31; P = 0.009), meeting the predefined primary outcome. Twelve patients (26%) in the pirfenidone group and 14 patients (30%) in the placebo group experienced one or more serious adverse events. The most common adverse events in the pirfenidone group were nausea, insomnia and rash. In conclusion, among patients with HFPEF and myocardial fibrosis, adminis tration of pirfenidone for 52 weeks reduced myocardial fibrosis. The favorable effects of pirfenidone in patients with HFPEF will need to be confirmed in future trials.

eart failure with preserved ejection fraction (HFpEF) is novel approach to heart failure that involves specifically targeting tality¹. HFpEF involves a diverse range of pathophysiologial mechanisms, and this heterogeneity may have contributed to the neutral findings of some phase 3 trials that have considered HFpEF as a single entity and taken a one-size-fits-all approach to **Results** its treatment². By contrast, trials that have targeted specific bio- Patients. From 7 March 2017 to 19 December 2018, 601 patients logical mechanisms, such as the Tafamidis Treatment for Patients with Transthyretin Amyloid Cardiomyopathy (ATTR-ACT) trial, and the Rivaroxaban with or without Aspirin in Patients reasons of ineligibility, and 13 further patients were found to have with Heart Failure and Chronic Coronary or Peripheral Artery extracellular volume (ECV) < 27% (median ECV 24.7%, interquar-Disease (COMPASS) trial, have shown benefit in Predictive enrichment trial design means selecting patients who are more likely to Ninety-four patients were randomly assigned to receive pirfenidone respond to a given therapy on the basis of a biological mechanism

or specific disease pathway

mmon and is associated with high morbidity and mormyocardial fibrosis, and tested whether pirfenidone would result in

were screened at six sites in the United Kingdom. Of these, 136 had a baseline assessment. Twenty-nine patients were excluded for or placebo (Fig. 1). At the end of the trial, 12 patients had withdrawn from the study and two had died. No patient was lost to follow-up

Pirfenidor con fibrosi reduce lev volumen e miocárdic 95%, -2,12 0,009) en

medicine

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CA125 elevado (≥ 35 U/ mL) podría identificar a los pacientes que se benefician de una hospitalización más prolongada para evitar reingresos por ICA a medio plazo



Contents lists available at ScienceDirect

European Journal of Internal Medicine



Clinical utility of antigen carbohydrate 125 for planning the optimal length of stay in acute heart failure

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length of stay acute heart failure

ABSTRACT

Background: The optimal length of stay (LOS) in patients hospitalized for acute heart failure (AHF) remains controversial. Plasma antigen carbohydrate 125 (CA125) has emerged as a reliable proxy of congestion. We ned to evaluate whether there is a differential impact of LOS on the risk of 6-month AHF readi

 ${\it Methods:} \ This is a retrospective study that included 1,387 patients discharged for AHF in two third-level centers CA125 was measured 48 \pm 24 h after admission. The association between CA125 and LOS with the risk of substances of the contract of t$ sequent AHF readmission at 6 months was analyzed by Cox regression analysis accounting for death as a

Results: The median (IQR) age of the sample was 78 (69–83) years, 625 (41.1%) patients were wo (60%) exhibited preserved left ventricular ejection fraction. The median LOS and CA125 were 6 (4-9) days and 36 (17-83) U/mL, respectively. A total of 707 (51%) patients displayed high CA125 levels (≥35 U/mL). At 6 months, 87 deaths (6,3%) and 304 AHF readmissions (21,9%) were registered, respectively. A multivariate analysis revealed a differential effect of LOS on 6-month AHF readmission across CA125 levels (p-value for eraction=0.010). In those with CA125<35 U/mL, LOS>7 days did not modify the risk (HR:1.31: 95% CI: 0.92 Interaction—0.0701, in those with CA125>35 U/mL, LOS≥7 days und no mounty the 18k (1R.1.31, 50% Ct. 0.52 1.87, p=0.131). Conversely, in those with CA125>35 U/mL, LOS≥7 days was associated with a lower risk of AHF readmission (HR:0.70; 95% Ct. 0.51-0.98, p=0.036).

Conclusions: In patients with AHF, high CA125 levels may identify those patients that benefit from a more prolonged hospitalization in terms of reducing the risk of mid-term AHF readmissions.

expenditures [2,3]. Thus, healthcare providers' initiatives have tradi-

Pirfenidor con fibros reduce lev volumen e miocárdic 95%, -2,12 0.009) en

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Pirfenidone in hear ejection fraction: a

Gavin A. Lewis (1)1,2, Susanna Dodd3, D Erik B. Schelbert 65,6,7, Josephine H. N Colin Cunnington², Fozia Zahir Ahmed Theresa McDonagh¹¹, Paula R. Willian

In heart failure with preserved ejection fractio come. Whether pirfenidone, an oral antifibroti HFpEF is unknown. In this double-blind, phase a tion of 45% or higher and elevated levels of nature. and those with evidence of myocardial fibrosi assigned to receive pirfenidone or placebo for placebo groups. The primary outcome was cha to placebo, pirfenidone reduced myocardial ext -2.12 to -0.31; P = 0.009), meeting the prede patients (30%) in the placebo group exper pirfenidone group were nausea, insomnia and r need to be confirmed in future trials.

eart failure with preserved ejection frac tality1. HFpEF involves a diverse range of p the neutral findings of some phase 3 trials that HFpEF as a single entity and taken a one-size-fit its treatment². By contrast, trials that have targ logical mechanisms, such as the Tafamidis Treat trial, and the Rivaroxaban with or without As with Heart Failure and Chronic Coronary or Disease (COMPASS) trial, have shown benefit3.4. 1 ment trial design means selecting patients who respond to a given therapy on the basis of a biole

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ABSTRACT

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Methods: This is a retros

Dejar de fumar, pero no reducir el consumo se asoció con un menor riesgo de ictus e IM



(in 2009 and 2011) were included. Participants were classified as quitters (20.6%), reducers I (≥50% reduction, 7.3%),

reducers II (20-50% reduction, 11.6%), sustainers (45.7%), and increasers (≥20% increase, 14.5%). During 5 575 556

person-years (PY) of follow-up, 17 748 stroke (3.2/1000 PY) and 11 271 myocardial infarction (MI) (2.0/1000 PY)

events were identified. Quitters had significantly decreased risk of stroke [adjusted hazard ratio (aHR) 0.77 95% confidence interval (CI) 0.74-0.81; absolute risk reduction (ARR) -0.37, 95% CI -0.43 to -0.31] and MI (aHR 0.74,

95% CI 0.70-0.78; ARR -0.27, 95% CI -0.31 to -0.22) compared to sustainers after adjustment for demographic

factors, comorbidities, and smoking status. The risk of stroke and MI incidence in reducers I (aHR 1.02, 95% CI

0.97-1.08 and aHR 0.99, 95% CI 0.92-1.06, respectively) and reducers II (aHR 1.00, 95% CI 0.95-1.05 and aHR 0.97,

95% CI 0.92-1.04, respectively) was not significantly different from the risk in sustainers. Further analysis with a

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European Heart Journal

Article Navigation

Smoking cessation, but not reduction, re incidence

Su-Min Jeong, Keun Hye Jeon, Dong Wook Shin, Kyungdo Han, Dahy Ki-Woong Nam, Seung Pyo Lee Author Notes

European Heart Journal, ehab578, https://doi.org/10.1093/eurheart/ Published: 25 August 2021 Article history v

Abstract

The aim of this study was to assess the association of smoking

A total of 897 975 current smokers aged ≥40 years who had u (in 2009 and 2011) were included. Participants were classified a reducers II (20-50% reduction, 11.6%), sustainers (45.7%), an person-years (PY) of follow-up, 17 748 stroke (3.2/1000 PY) an events were identified. Quitters had significantly decreased risl confidence interval (CI) 0.74-0.81; absolute risk reduction (AR 95% CI 0.70-0.78; ARR -0.27, 95% CI -0.31 to -0.22) compare factors, comorbidities, and smoking status. The risk of stroke 0.97-1.08 and aHR 0.99, 95% CI 0.92-1.06, respectively) and 1

En mayores hipertensos, el objetivo de PAS < 130 mmHg reduce eventos cardiovasculares más que el objetivo de 130-150 mm Hg

The NEW ENGLAND JOURNAL of MEDICINE

ORIGINAL ARTICLE

Trial of Intensive Blood-Pressure Control in Older Patients with Hypertension

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ABSTRACT

The authors' affiliations are listed in the The appropriate target for systolic blood pressure to reduce cardiovascular risk in Ine autnors artiliations are listed in the Appendix. Address reprint requests to Dr. Cai (caijun@fuwaihospital.org) or Dr. Zhang (zhangweilil/14/@yahoo.com) at the Hypertension Center, FuWai Hospital, State Key Laboratory of Cardiovascular Disease, National Center for Cardioolder patients with hypertension remains unclear.

In this multicenter, randomized, controlled trial, we assigned Chinese patients 60 to 80 years of age with hypertension to a systolic blood-pressure target of 110 to less vascular Diseases, Peking Union Medical College, Chinese Academy of Medical Sciences, Beilishi Rd. 167, Xicheng District, Sciences, Beilishi Rd. 167, Xicheng District, Capter Manager (Aguster Propagation and Aposity Lighter Propagation and Aposity Lighte nary syndrome (acute myocardial infarction and hospitalization for unstable angina), acute decompensated heart failure, coronary revascularization, atrial fibrillation, or death from cardiovascular causes.

Beijing, 100037, China.

2021, at NEJM.org.

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*A complete list of members of the STEP

Study Group is provided in the Supple-mentary Appendix, available at NEJM.org.

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Drs. W. Zhang, S. Zhang, Deng, Wu, Ren,
Sun, Yang, Jiang, Xu, T.-D. Wang, and Y.
Chen contributed equally to this article.

Of the 9624 patients screened for eligibility, 8511 were enrolled in the trial; 4243
were randomly assigned to the intensive-treatment group and 4268 to the standard restment group. At 1 year of following, the mean systolic blood pressure was dard-treatment group. At 1 year of follow-up, the mean systolic blood pressure was 127.5 mm Hg in the intensive-treatment group and 135.3 mm Hg in the standardtreatment group. During a median follow-up period of 3.34 years, primary-outcome events occurred in 147 patients (3.5%) in the intensive-treatment group, as compared with 196 patients (4.6%) in the standard-treatment group (hazard ratio, 0.74. 95% confidence interval [CI] 0.60 to 0.92. P=0.007). The results for most of the individual components of the primary outcome also favored intensive treatment

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