

VIII Jornada **grupo GEIO**

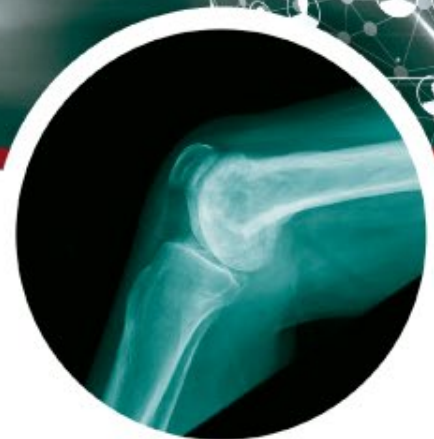
GRUPO DE ESTUDIO DE INFECCIONES OSTEOARTICULARES

2023

NUEVOS RETOS EN INFECCIÓN OSTEOARTICULAR (IOA)

INFECCION POR G+ MULTIRRESISTENTE

O DE UN CASO QUE RESISTE A INFECCIONES POR G+



Madrid
GEIO • SEIMC

LAURA GUÍO CARRIÓN

*SERVICIO ENFERMEDADES INFECCIOSAS
HOSPITAL UNIVERSITARIO CRUCES-VIZCAYA*

Varon 84 años

DM2

HTA

EPOC SEVERO GOLD 3C +SAOS.

CARDIOPATIA : FA ANTICOAGULADA, HTP SEVERA, IT MASIVA,
ICC DCHA

HEPATOPATIA OH + CONGESTIVA CRONICA

BICITOPENIA CRONICA (anemia 11, trombopenia 80000)

ERC estadio 2 con reagudizaciones

PTR BILATERAL (DCHA 2010, IZDA 2008)



2023

Una sorprendente historia de IHAs por G+



2017

IHA PTR DCHA

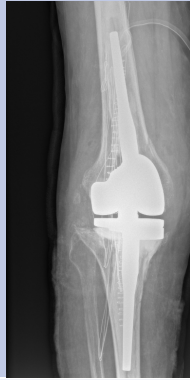
**STREPTO
ORALIS**

DAIR



23

Una sorprendente historia de IHAs por G+



2017

IHA PTR DCHA
**STREPTO
ORALIS**

DAIR

2021

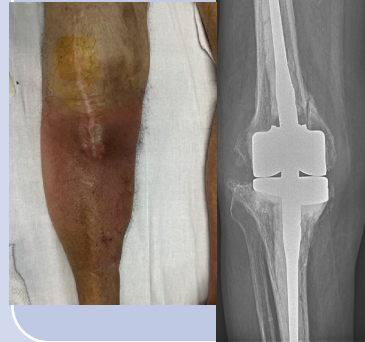
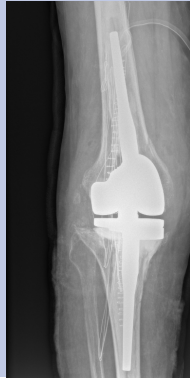
IHA PTR DCHA
**PARVIMONAS
MICRA**

RECAMBIO 1 T



23

Una sorprendente historia de IHAs por G+



2017

IHA PTR DCHA
**STREPTO
ORALIS**

DAIR

2021

IHA PTR DCHA
**PARVIMONAS
MICRA**

RECAMBIO 1 T

ABRIL 2022

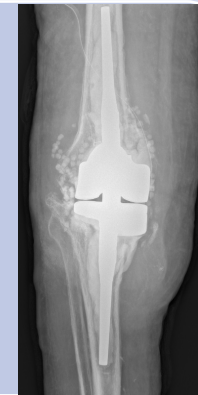
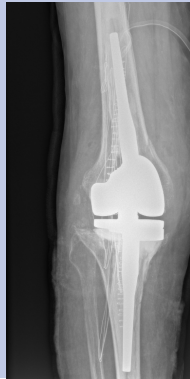
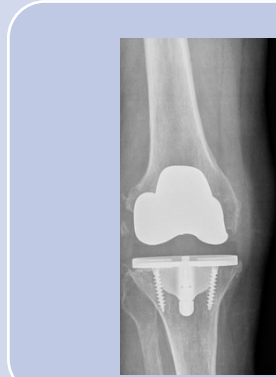
IHA PTR BILATERAL
**LISTERIA
MONOCYTOGENES**

REC 1 T BILAT

COLGAJO GEMELAR
DCHO

23

Una sorprendente historia de IHAs por G+



2017

IHA PTR DCHA

**STREPTO
ORALIS**

MANIPULACION
DENTAL

DAIR

2021

IHA PTR DCHA

**PARVIMONAS
MICRA**

MANIPULACION
DENTAL

RECAMBIO 1 T

ABRIL 2022

IHA PTR BILATERAL

**LISTERIA
MONOCYTOGENES**

?

REC 1 T BILAT

COLGAJO GEMELAR
DCHO

OCTUBRE 2022

IHA PTR DCHA

**ENTEROCOCCO
FAECALIS**

?

DAIR

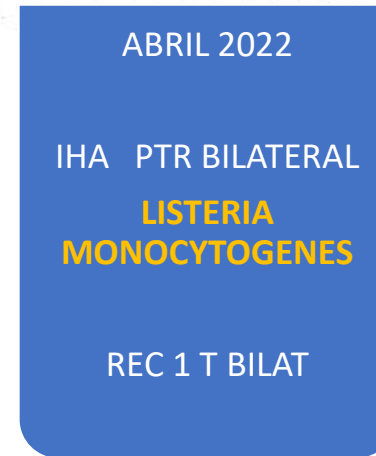
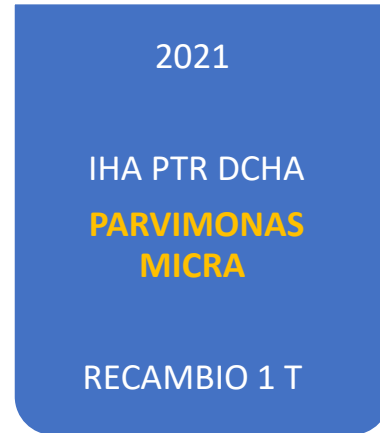
SIEMPRE HC
NEGATIVOS

ETT SIN EI

TAC BODY SIN FOCOS

COLONO:
POLIPECTOMIA

Una sorprendente historia de IPAs por G+



Microorganismo	Streptococcus oralis
Antibiótico	Estado
Penicilina	Sensible
Ampicilina	Sensible
Amoxicilina	Sensible
Ceftriaxona	Sensible
Eritromicina	Sensible
Clindamicina	Sensible
Vancomicina	Sensible
Tetraciclina	Sensible
Cloranfenicol	Sensible
Cotrimoxazol (sulfametoxazol y trimetoprim)	Sensible
Levofloxacino	Sensible
Norfloxacino	Resistente
Rifampicina	Sensible

Microorganismo	Parvimonas micra
Antibiótico	Estado
Penicilina	Sensible
Amoxicilina + clavulanico	Sensible
Clindamicina	Sensible
Metronidazol	Sensible

Microorganismo	Listeria monocytogenes
Antibiótico	Estado
Penicilina	Sensible
Ampicilina	Sensible
Gentamicina	Sensible
Eritromicina	Sensible
Clindamicina	Resistente
Vancomicina	Sensible
Tetraciclina	Sensible
Levofloxacino	Sensible
Rifampicina	Sensible

Microorganismo	Enterococcus faecalis
Antibiótico	Estado
Ampicilina	Sensible
Amoxicilina + clavulanico	Sensible
Linezolid	Sensible
Vancomicina	Sensible
Teicoplanina	Sensible
Tetraciclina	Resistente
Levofloxacino	Sensible
Rifampicina	Resistente
Cotrimoxazol (sulfametoxazol y trimetoprim)	Resistente

Ceftriaxona
Levo/rifa 8 semanas

Dapto → ceftriaxona
Levo/rifa 6 semanas

Ampi/ceftri 6 sem
Septrin 3 meses

Ampi/ceftri 4 sem
Amoxicilina 4 sem

ENTEROCOCCO FAECALIS... ¿FÁCIL O DIFÍCIL?

The NEW ENGLAND JOURNAL of MEDICINE

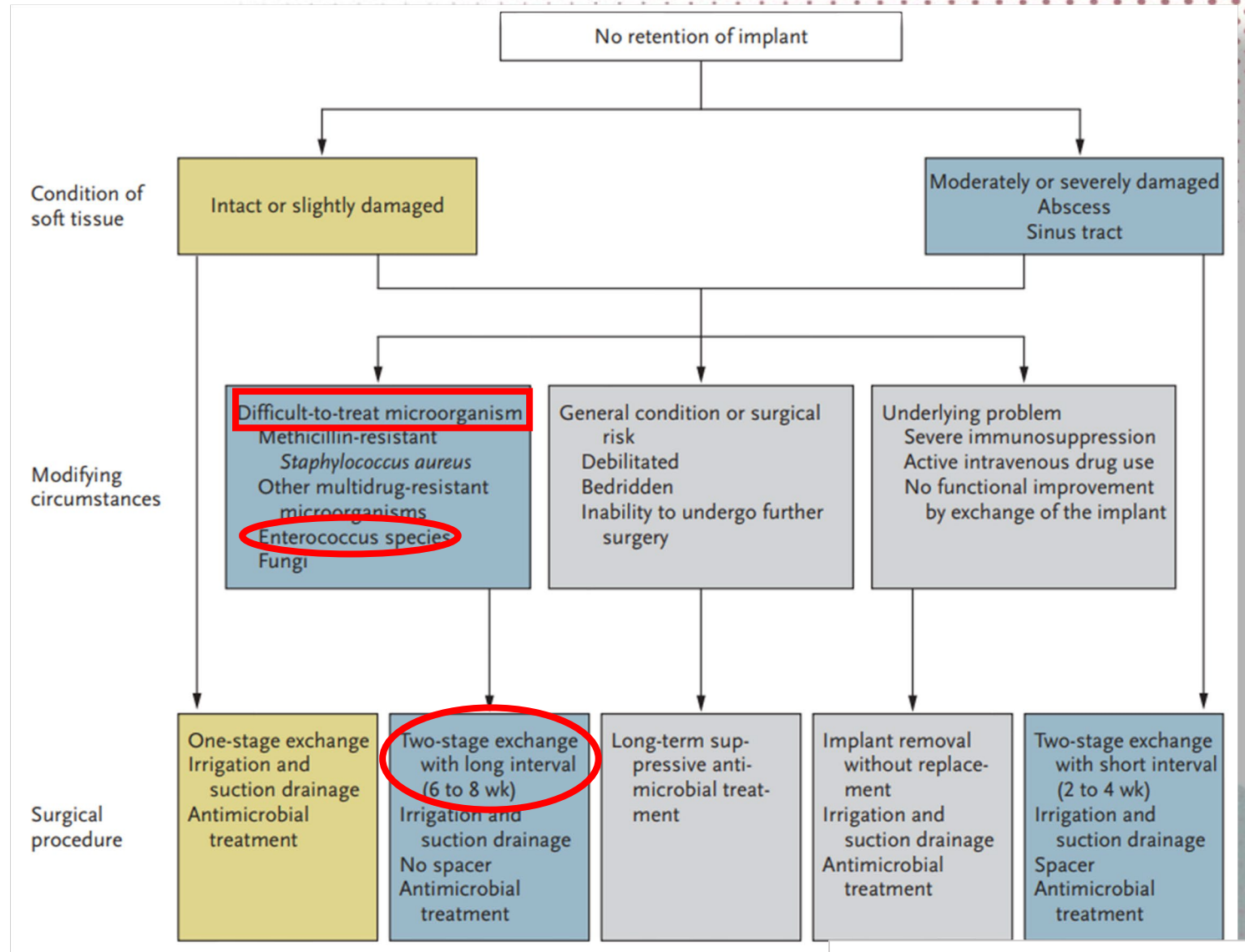
REVIEW ARTICLE

CURRENT CONCEPTS

Prosthetic-Joint Infections

Werner Zimmerli, M.D., Andrej Trampuz, M.D., and Peter E. Ochsner, M.D.

“In the presence of a foreign body, enterococcal infections present an additional challenge, since most antibiotics lack antibiofilm activity against enterococci “



N Engl J Med 2004;351:1645-54.

ENTEROCOCO FAECALIS... ¿FÁCIL O DIFÍCIL?

	AÑO	n pacientes	TASA CURACION GLOBAL	CIRUGIA MAS EXITOSA	ENTONCES..?
EL HELOU	2008	50	88%	REC 2 T	
TORNERO	2014	203	66%	REC 2 T	
DUIJF	2015	44	48%	EXPLANTE	
KHEIR	2017	87	62,8%	REC 2 T	
THOMPSON	2019	55	67% 80%	EXPLANTE	
RENZ	2019	75	84%	DAIR	

2023

ENTEROCOCO FAECALIS... ¿FÁCIL O DIFÍCIL?

Enterococcal periprosthetic joint infection: clinical and microbiological findings from an 8-year retrospective cohort study

Nora Renz¹, Rihard Trebse², Doruk Akgün¹, Carsten Perka¹ and Andrej Trampuz^{1*} 

Intravenous antibiotic agent

Penicillin derivative	61/74 (82)	30/37 (81)
Vancomycin or daptomycin	12/74 (16)	6/37 (16)
Other	1/74 (3)	1/37 (3)

Additive agent for combination treatment

Fosfomycin	17/74 (23)	9/37 (24)
Gentamicin	16/74 (22)	11/37 (30)
Fosfomycin and gentamicin	8/74 (11)	5/37 (14)
Vancomycin or daptomycin	18/74 (24)	4/37 (11)
None	15/74 (20)	8/37 (22)

All episodes (n = 75)	Mono-microbial (n = 37)
--------------------------	----------------------------

A las 2 semanas de suspender el tratamiento....



-Aspecto	Hemorrágico
-Hematies	73.000 / μ L
-Otras células	58.065 / μ L
-Linfocitos	2 %
-Neutrófilos	98 %
-Glucosa	62 mg/dL

Microorganismo	Enterococcus faecalis
Antibiótico	Estado
Ampicilina	Sensible
Amoxicilina + clavulanico	Sensible
Linezolid	Sensible
Vancomicina	Sensible
Teicoplanina	Sensible
Tetraciclina	Resistente
Levofloxacino	Sensible
Rifampicina	Resistente
Cotrimoxazol (sulfametoxazol y trimetoprim)	Resistente



Reinicio de amoxicilina 1 gr/8 h...
y nuevo planteamiento medico quirúrgico en sesión GEMIO



IPP REFRACTARIA REAGUDIZADA/INFECCION CRONICA SOBRE PROTESIS EN 2º REVISION POR E. FAECALIS

NUEVO DAIR

RETIRADA PROTÉSICA

SUPRESION ANTIBIOTICA INDEFINIDA

Posible fracaso

RECAMBIO 1 TIEMPO

Limitacion stock oseo
Problemas de cobertura
VIDA CAMA-SILLA RUEDAS
¿Riesgo/beneficio?

RECAMBIO 2 TIEMPOS

Limitacion stock oseo
Problemas de cobertura
VIDA CAMA-SILLA RUEDAS

ARTRODESIS

VIDA CAMA-SILLA RUEDAS
¿DISFUNCIONAL???

AMPUTACION



A los pocos días .. Ingreso por HDB



RECTORRAGIA

Insuficiencia respiratoria-oxigenoterapia

HB 7

Plaquetas 50000

Deterioro fx hepática

Creat 2,8 FG 30

2023

IPP REFRACTARIA REAGUDIZADA/INFECCION CRONICA SOBRE PROTESIS EN 2º REVISION POR E. FAECALIS

NUEVO DAIR

Posible fracaso

RETIRADA PROTÉSICA
(DIFERIDA)

Inestabilidad hemodinámica

SUPRESION ANTIBIOTICA (INDEFINIDA)

RECAMBIO 1 TIEMPO

Limitacion stock oseo
Problemas de cobertura
VIDA CAMA-SILLA RUEDAS
¿Riesgo/beneficio?

RECAMBIO 2 TIEMPOS

Limitacion stock oseo
Problemas de cobertura
VIDA CAMA-SILLA RUEDAS

ARTRODESIS

VIDA CAMA-SILLA RUEDAS
¿DISFUNCIONAL???

AMPUTACION

2023

IPP REFRACTARIA REAGUDIZADA/INFECCION CRONICA SOBRE PROTESIS EN 2º REVISION POR E. FAECALIS



SUPRESION ANTIBIOTICA (INDEFINIDA)

AMOXICILINA

FAIL

LINEZOLID



DOXICICLINA



VANCOMICINA/TEICOPLANINA



DAPTOMICINA

DALBAVANCINA/ORITAVANCINA

TEDIZOLID

FOSFOMICINA

LEVOFLOXACINO

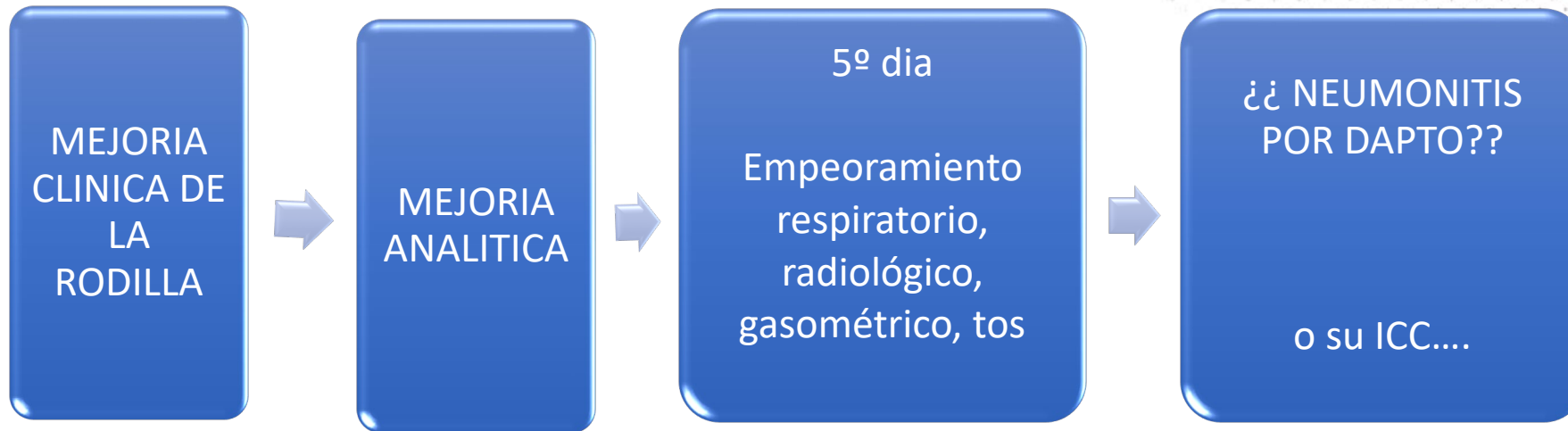
27/12/2022

LIQUIDO SINOVIAL

Microorganismo	Enterococcus faecalis
Antibiótico	Estado
Ampicilina	Sensible
Amoxicilina + clavulanico	Sensible
Linezolid	Sensible
Vancomicina	Sensible
Teicoplanina	Sensible
Tetraciclina	Resistente
Levofloxacino	Sensible
Rifampicina	Resistente
Cotrimoxazol (sulfametoxazol y trimetoprim)	Resistente

2023

DAPTOMICINA



- FIEBRE
- DISNEA
- INFILTRADOS EN RX
- >25% EOSINOFILOS EN LBA
- 4 SEM DE TTO DAPTOMICINA
- RAPIDA MEJORIA TRAS LA SUSPENSION

Kim Pwet al. Eosinophilic pneumonia in patients treated with daptomycin: review of the literature and US FDA adverse event reporting system reports. Drug Saf 2012; 35:447–57

DAPTOMICINA

Eosinophilic Syndromes Associated With Daptomycin Use: Re-exposure Hypersensitivity Pneumonitis and Prior Peripheral Eosinophilia

NEUMONITIS POR DAPTOMICINA

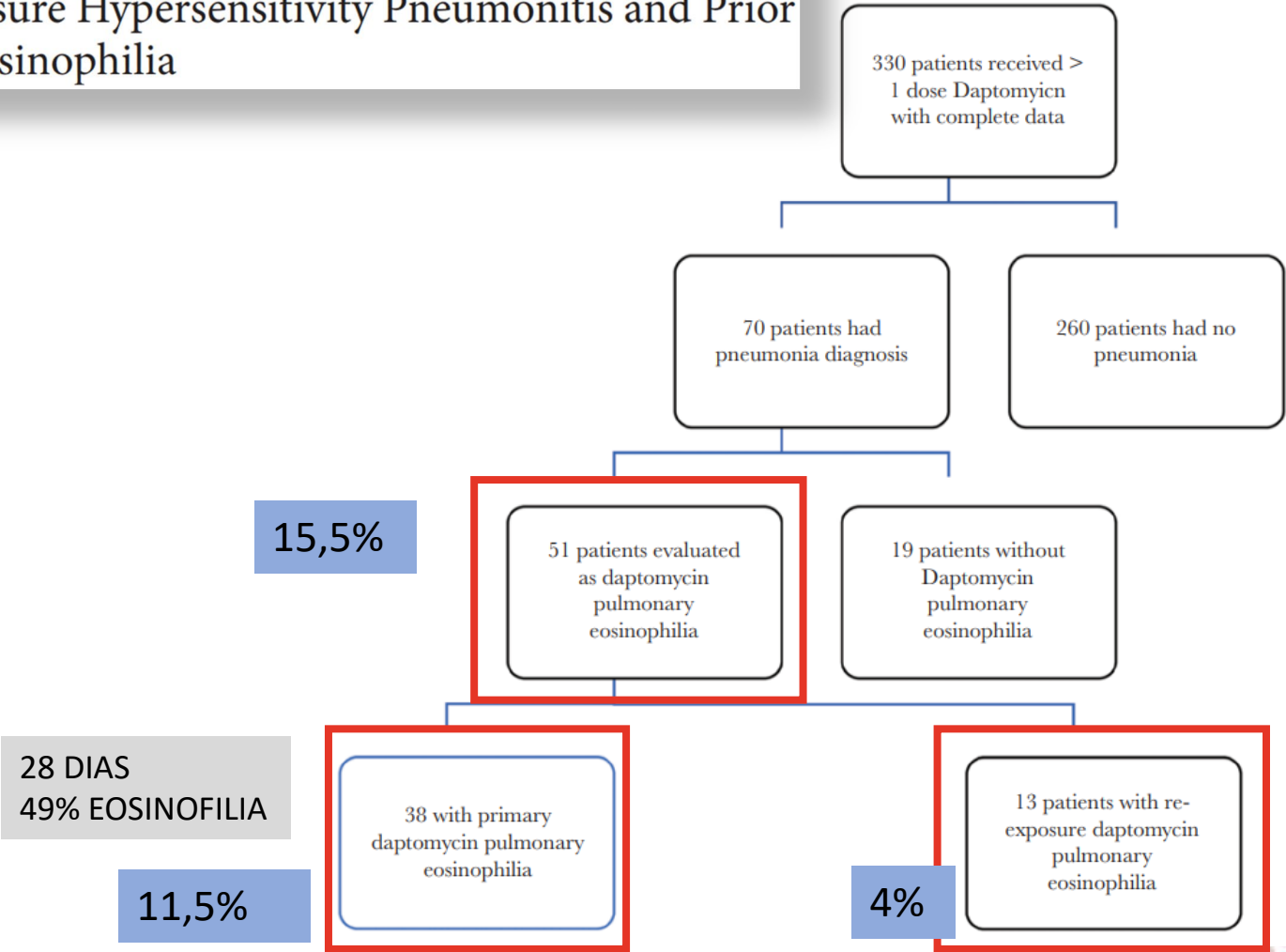


Table 3. Clinical Presentation of Hyperacute Pneumonitis After Daptomycin Re-exposure

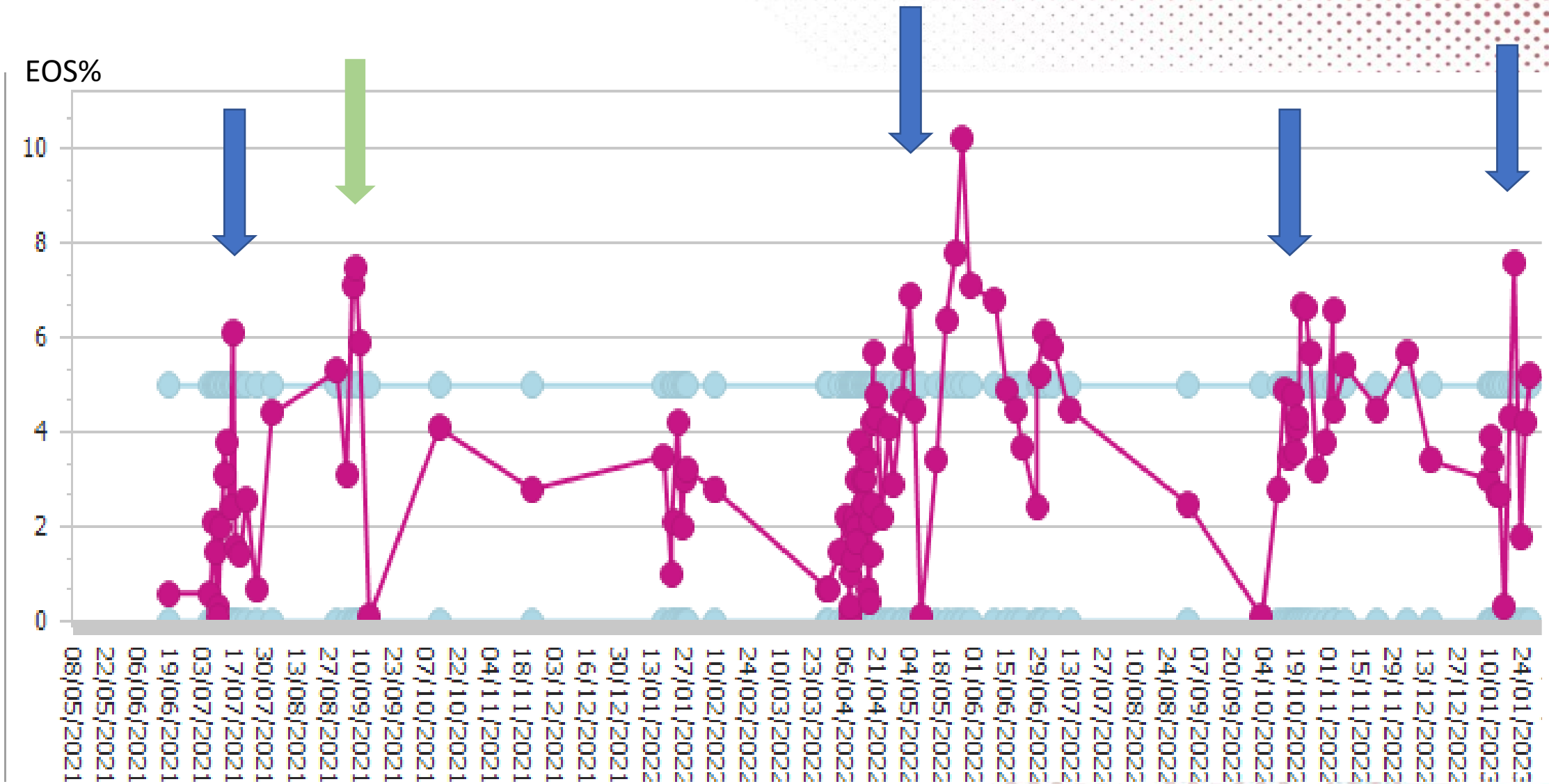
Clinical Factors	No. (%)
Cough	13 (100)
Shortness of breath	13 (100)
Fevers >38°C	11 (78)
Rash	1 (7)
Abnormal chest x-ray—diffuse infiltrates	13 (100)
Peripheral eosinophilia >5%	12 (92.5)
Corticosteroid therapy	7 (54)
ICU admission	7 (54)
Renal insufficiency	1 (7)
Prior eosinophilia >5% of previous treatment	13 (100)
Median time to onset of symptoms, d	3

Clinical monitoring of peripheral eosinophilia while on daptomycin therapy could be a future predictor for a re-exposure fulminant DPE

28 DIAS
49% EOSINOFILIA

<7 DIAS
92% EOSINOFILIA
EOSINOFILIA PREVIA 100%
SI EOS PREVIOS>5%: VPP 100%

DAPTOS PREVIAS....



IPP REFRACTARIA REAGUDIZADA/INFECCION CRONICA SOBRE PROTESIS EN 2º REVISION POR E. FAECALIS

SUPRESION ANTIBIOTICA INDEFINIDA

AMOXICILINA

FAIL

LINEZOLID



DOXICICLINA



VANCOMICINA/TEICOPLANINA



DAPTOMICINA



DALBAVANCINA/ORITAVANCINA

TEDIZOLID

FOSFOMICINA

LEVOFLOXACINO

27/12/2022

LIQUIDO SINOVIAL

Microorganismo	Enterococcus faecalis
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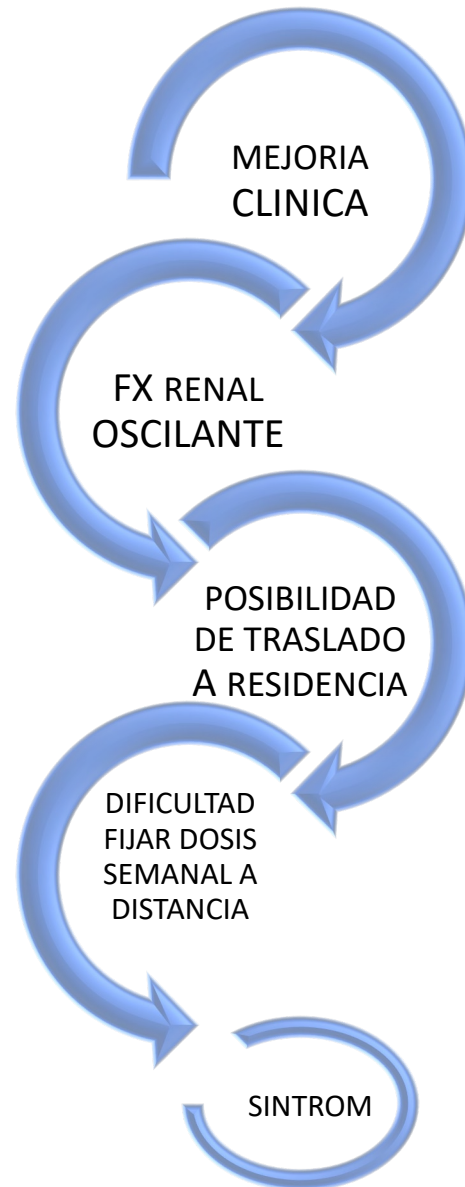
2023

DALBAVANCINA

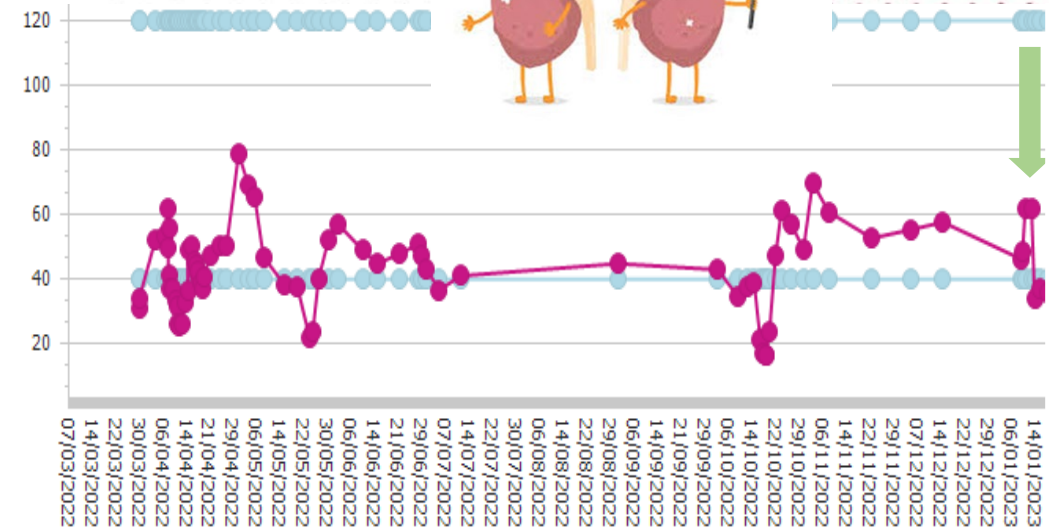
1ª DOSIS 1000 mg

2ª DOSIS 500 mg

3ª dosis....?



FG



¿NEFROTOXICIDAD?

¿¿DATOS DE DALBA EN PACIENTES CON ERC ESTADIO AVANZADO???

¿¿DATOS DE DALBA COMO TOS EN ESTOS PACIENTES??



Aunque en los estudios reportados no se encontró ningún efecto adverso grave en lo referente a ototoxicidad y nefrotoxicidad, éstos son comunes en la familia de antibióticos glicopeptídicos, como la vancomicina y teicoplanina. Por su similitud estructural, no se puede excluir el hallazgo de estos efectos adversos después de tratamientos prolongados o repetidos con dalbavancina

DALBAVANCINA

Dalbavancin in the treatment of different gram-positive infections: a real-life experience

Emilio Bouza ^{a,b,c,d}, Maricela Valerio ^{a,*}, Alex Soriano ^e, Laura Morata ^e, Enrique García Carus ^e, Carmen Rodríguez-González ^{b,f}, Ma Carmen Hidalgo-Tenorio ^g, Antonio Plata ^h, Patricia Muñoz ^{a,b,c,d,*}, Antonio Vena ^{a,b,d} on behalf of the DALBUSE Study Group (Dalbavancina: Estudio de su uso clinico en España)

Table 1
Baseline patient characteristics (n = 69).

Characteristic	n (%) ^a
Age (years) [median (IQR)]	63.5 (49.3–72.0)
Male sex	40 (58.0)
Department	
Medical	36 (52.2)
Surgical	29 (42.0)
Outpatient setting	4 (5.8)
Underlying diseases	
Diabetes mellitus	23 (33.3)
Cardiovascular disease	22 (31.9)
Respiratory tract disease	15 (21.7)
Neurological disorder	14 (20.3)
Immunosuppressive therapy	9 (13.0)
Solid-organ malignancy	8 (11.6)
Gastrointestinal disease	7 (10.1)
Haematological malignancy	3 (4.3)
HIV infection	2 (2.9)
Bone marrow transplant	1 (1.4)
Solid-organ transplant	1 (1.4)
Renal function	
Chronic renal failure	15 (21.7)
Haemodialysis	4 (5.8)
Liver disease ^a	7 (10.1)
A	3 (4.3)
B	3 (4.3)
C	1 (1.4)
Charlson comorbidity index [median (IQR)]	3 (1–5)
McCabe score	
Non-fatal	52 (75.4)
Ultimately fatal	14 (20.3)
Rapidly fatal	3 (4.3)

1 day in 23 patient
14 days in 12 patients;
21 days in 5 patients
28 days in 9 patients
35 days in 6 patients
42 days in 8 patients

Only one patient, treated for 56 days, received a dosage reduction for chronic renal disease with CLCr ≤ 30 mL/min.

Table 4
Safety of dalbavancin therapy in study population (n = 69).

Safety parameter	n (%)
Mild adverse events	7 (10.1)
Severe adverse events	2 (2.9) ^a
Overall adverse events	9 (13.0)
Potential type of adverse event	
Rash	2 (2.9)
Tachycardia	2 (2.9)
Impaired renal function	2 (2.9)
Nausea	1 (1.4)
Rectal bleeding	1 (1.4)
Candidiasis	1 (1.4)
Liver failure	0
Haematological disorder	0

^a Rectal bleeding (n = 1) and tachycardia (n = 1).

DALBAVANCINA

Safety and Efficacy of Prolonged Use of Dalbavancin in Bone and Joint Infections

L. Morata,^a J. Cobo,^b M. Fernández-Sampedro,^c P. Guisado Vasco,^d E. Ruano,^e J. Lora-Tamayo,^f M. Sánchez Somolinos,^g P. González Ruano,^h A. Rico Nieto,ⁱ A. Arnaiz,^j M. Estébanez Muñoz,^k M. E. Jiménez-Mejías,^l A. B. Lozano Serrano,^m E. Múñez,ⁿ D. Rodríguez-Pardo,^o R. Argelich,^p A. Arroyo,^q J. M. Barbero,^r F. Cuadra,^s A. Del Arco,^t M. D. del Toro,^{u,v} L. Guio,^w D. Jiménez-Beatty,^x N. Lois,^y O. Martín,^z R. M. Martínez Álvarez,^{aa} F. J. Martínez-Marcos,^{bb} L. Porras,^{cc} M. Ramírez,^{dd} J. Vergas García,^{ee} A. Soriano^a

TABLE 2 Characteristics and outcomes of patients with implant-associated infections
(*n* = 45)

Variable ^f	Value
Age (yrs), mean (SD)	64 (15)
Male sex, no. (%)	24 (53.3)
Comorbidity, no. (%)	
Diabetes mellitus	7 (15.5)
Rheumatoid arthritis	2 (6.6)
Chronic renal failure	5 (11.1)
Median (IQR) SCr (mg/dl) before dalbavancin treatment ^a	1 (0.6–1)
Median (IQR) highest SCr (mg/dl) during dalbavancin ^a	1 (0.6–1)
Median (IQR) no. of dalbavancin doses	5 (3–8)

1 case with a documented increase of 0.5 mg/dl of serum creatinine

Éxito: 80% en secuenciación
50% en fracaso

The first conclusion of our study is that dalbavancin is well tolerated, with minor adverse events without any treatment interruption or evidence of nephrotoxicity. Indeed, dalbavancin is a derivative of teicoplanin, and it is significantly less toxic than vancomycin

DALBAVANCINA

Dalbavancin in clinical practice in Spain: a 2 year retrospective study

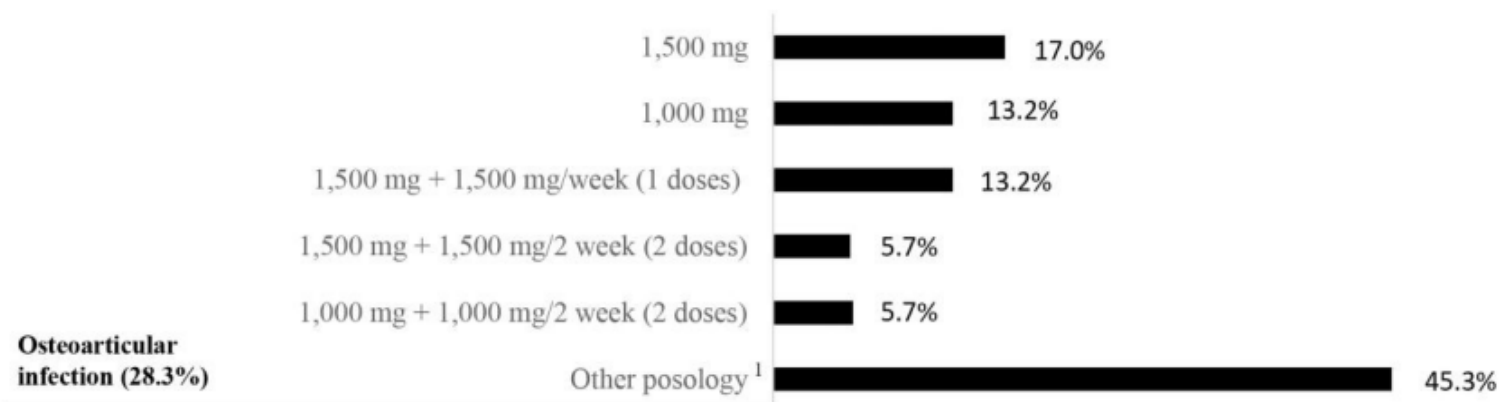
Laura Morata¹, José María Aguado², Miguel Salavert³, Juan Pasquau⁴, Enrique Míguez⁵, Patricia Muñoz⁶, Irantzu Rosselló⁷ and Benito Almirante^{8*9}

187 patients were finally analysed

The median number of doses was 1

The median number of weeks was 2.

One patient on suppressive treatment (34 weeks)



	Patients (N=187)
Age (years), mean (SD)	63.9 (18.6)
Gender, n (%)	
Male	122 (65.2)
Female	65 (34.8)
Comorbidities, n (%)	
None	27 (14.4)
Cardiovascular	51 (27.3)
Diabetes mellitus	44 (23.5)
Chronic kidney disease	22 (11.8)
Solid tumour	28 (15.0)
Respiratory disease	8 (4.3)
Leukaemia	7 (3.7)
Lymphoma	7 (3.7)
Metastatic solid tumour	4 (2.1)
Charlson comorbidity index, mean (SD)	4.0 (3.0)
Estimated 10 year survival, mean (SD)	46.4 (39.2)

Table 3. Safety of dalbavancin treatment

	Patients (N=187)
Adverse events ^a , n (%)	6 (3.2)
Intensity, n (%)	
Mild	4 (66.7)
Moderate	1 (16.6)
Severe	1 (16.6)
Related to dalbavancin, n (%)	
Possible	4 (66.7)
Probable	2 (33.3)
Treatment discontinuation due to adverse events ^b , n (%)	2 (1.1)

^aMild testicular oedema (n=1), mild dizziness (n=1), mild pruritus (n=1), mild asthenia (n=1), moderate balanitis (n=1), severe thrombopenia (n=1).

^bReasons: testicular oedema, severe thrombopenia.

Safety of Dalbavancin in the Treatment of Acute Bacterial Skin and Skin Structure Infections (ABSSSI): Nephrotoxicity Rates Compared with Vancomycin: A Post Hoc Analysis of Three Clinical Trials

The rate of nephrotoxicity was lower in patients receiving **dalbavancin** (49/1325, **3.7%**) than in those receiving **vancomycin** (5/54, **9.3%**; $P = 0.039$, Table 3). Rates of nephrotoxicity were similar for patients receiving dalbavancin as a single dose and those receiving two-dose therapy

Nephrotoxicity on therapy ^c					
All dalbavancin patients vs patients intravenously administered vancomycin only	15/345 (4.3)	34/980 (3.5)	49/1325 (3.7)	5/54 (9.3)	0.039

DALBAVANCINA



Antimicrobial Agents
and Chemotherapy®

CLINICAL THERAPEUTICS



Population Pharmacokinetics of Dalbavancin and Dosing Consideration for Optimal Treatment of Adult Patients with Staphylococcal Osteoarticular Infections

Pier Giorgio Cojutti,^{a,b} Matteo Rinaldi,^{c,d} Eleonora Zamparini,^{c,d} Nicolò Rossi,^{c,d} Sara Tedeschi,^{c,d} Matteo Conti,^c  Federico Pea,^{c,e} Pierluigi Viale^{c,d}

GFR did not result associated with drug CL, probably as a consequence of the lack of patients with impaired renal function in our cohort

Antimicrob Agents Chemother. 2023 May



antibiotics



Article

Population Pharmacokinetic and Pharmacodynamic Analysis of Dalbavancin for Long-Term Treatment of Subacute and/or Chronic Infectious Diseases: The Major Role of Therapeutic Drug Monitoring

Assessing drug exposure by means of therapeutic drug monitoring (TDM) after 3–5 weeks from starting treatment, depending on the degree of the patient's renal function, and expert Interpretation of TDM results by skilled clinical pharmacologists, may be the way forward for properly managing the duration of optimal treatment

Antibiotics 2022, 11,

Y LA ORITAVANCINA?

Table 1. Comparative In Vitro Minimum Inhibitory Morbidity Concentrations of Oritavancin for Gram-Positive Organisms

Organism	Oritavancin	Vancomycin	Daptomycin	Telavancin [14]	Dalbavancin [13]
MSSA	0.06	1	0.5	0.06	0.06
MRSA	0.06	1	0.5	0.06	0.06
VISA	2	8	4	0.75	...
VRSA	1	>64	1	6	...
CoNS	0.06	2	0.5	0.06	0.06–0.12
Vancomycin susceptible					
<i>Enterococcus faecalis</i>	0.03	2	2	0.16	0.06
<i>Enterococcus faecium</i>	<0.008	1	4	0.06	0.12
Vancomycin resistant (VanA)					32–>128
<i>E. faecalis</i>	0.5	>16	1	...	...
<i>E. faecium</i>	0.12	>16	2	2	...
Vancomycin resistant (VanB)					0.12–1
<i>E. faecalis</i>	0.03	>16	2	...	...
<i>E. faecium</i>	≤0.008	>16	2	8	...
<i>Streptococcus pneumoniae</i>	≤0.008	≤1	...	≤0.015	≤0.03–0.06
Viridans group streptococci	0.03	1	1	0.03	0.016–0.03
β-hemolytic streptococci	0.12	0.5	0.25	0.06	0.015–0.06

Y LA ORITAVANCINA?

The CHROME Study, a Real-world Experience of Single- and Multiple-Dose Oritavancin for Treatment of Gram-Positive Infections

Mark Redell,¹ Miguel Sierra-Hoffman,^{2,3} Maha Assi,⁴ Markian Bochan,⁵ David Chansolme,⁶ Anurag Gandhi,⁷ Kathleen Sheridan,⁸ Ivan Soosaipillai,⁹ Thomas Walsh,¹⁰ and Jill Massey¹

Successful treatment of a prosthetic hip infection due to *Enterococcus faecalis* with sequential dosing of oritavancin and prosthesis preservation without prosthetic joint surgical manipulation

IDCases. 2020 Sep 5;22

Table 4. Clinical and Microbiologic Outcomes in 438 Evaluable Patients^a

Outcome	Single Dose, no./No. (%)	Multiple Doses (Interrupted by ≤14 d), no./No. (%)	Overall, no./No. (%)
Clinical success ^b	356/406 (87.7)	30/32 (93.8)	386/438 (88.1)
Clinical cure	262/406 (64.5)	20/32 (62.5)	282/438 (64.4)
Clinical improvement	94/406 (23.2)	10/32 (31.3)	104/438 (23.7)
Clinical failure	50/406 (12.3)	2/32 (6.2)	52/438 (11.9)

7 patients joint infections: 4 septic arthritis and 3 PJI

Open Forum Infect Dis. 2019 Nov 4;6(11)

FICHA TÉCNICA O RESUMEN DE LAS CARACTERÍSTICAS DEL PRODUCTO

No es necesario un ajuste de la dosis de oritavancina en pacientes con insuficiencia renal leve o moderada. No se ha evaluado la farmacocinética de oritavancina en pacientes con insuficiencia renal grave.

<https://www.ema.europa.eu/en/documents/product-information>

2023

IPP REFRACTARIA REAGUDIZADA/INFECCION CRONICA SOBRE PROTESIS EN 2º REVISION POR E. FAECALIS

SUPRESION ANTIBIOTICA INDEFINIDA

AMOXICILINA

FAIL

LINEZOLID



DOXICICLINA



VANCOMICINA/TEICOPLANINA



DAPTOMICINA



DALBAVANCINA/ORITAVANCINA



TEDIZOLID

FOSFOMICINA

LEVOFLOXACINO

27/12/2022

LIQUIDO SINOVIAL

Microorganismo	Enterococcus faecalis
Antibiótico	Estado
Ampicilina	Sensible
Amoxicilina + clavulanico	Sensible
Linezolid	Sensible
Vancomicina	Sensible
Teicoplanina	Sensible
Tetraciclina	Resistente
Levofloxacino	Sensible
Rifampicina	Resistente
Cotrimoxazol (sulfametoxazol y trimetoprim)	Resistente

2023

Predictive score of haematological toxicity in patients treated with linezolid

J. González-Del Castillo^{1,2} & F. J. Candel^{2,3} & R. Manzano-Lorenzo⁴ & L. Arias⁴ & E. J. García-Lamberechts^{1,2} & F. J. Martín-Sánchez^{1,2} & Representatives of the Emergency Department Investigation Unit (addendum)

TEDIZOLID... POR CI LINEZOLID?

Table 3 Score for developing haematological toxicity

Variable	Value of each item
Basal platelet count $\leq 90,000/\text{mm}^3$	8
Renal failure	2
Moderate or severe liver disease	2
Cerebrovascular disease	2

The points assigned to each variable must be added to obtain a total score (0–14 points)

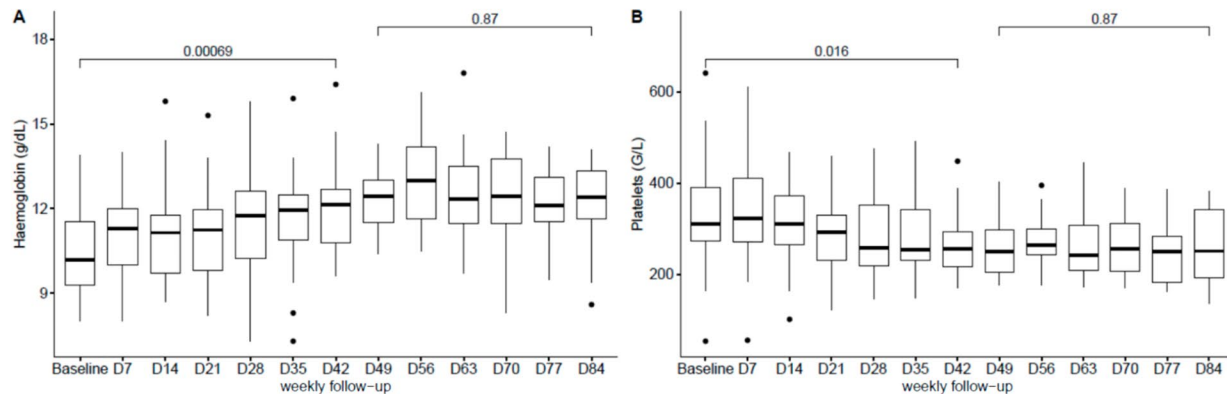
Low risk: 0–4 points; Intermediate risk: 5–10 points; High risk: >10 points

Tolerance of Prolonged Oral Tedizolid for Prosthetic Joint Infections: Results of a Multicentre Prospective Study

Eric Senneville ^{1,2,3,*}, Aurélien Dinh ^{4,5}, Tristan Ferry ^{6,7}, Eric Beltrand ^{3,8}, Nicolas Blondiaux ^{3,9} and Olivier Robineau ^{1,2,3}

Hb

Plaquetas



Primer estudio prospectivo de uso prolongado en infecciones protésicas (6-12 semanas)

33 pacientes ---8 enterococo

60% ef adversos:

Suspension del tto solo en 2 pacientes con sangrado y anemia

Table 3. Episodes of adverse effects reported in 33 patients during tedizolid therapy.

Adverse Event (N° of Discontinuation of Tedizolid Therapy)	N° of Episodes of Adverse Effects *
anemia (2)	4
asthenia	1
leukopenia	2
thrombocytopenia	2
headache	2
pruritus	4
abdominal pain	1
nausea/vomiting (1)	2
vertigo	1
xerosis	1
dysgeusia	1
epistaxis	1
arthralgia (1)	2
thrush	1
insomnia	2
intermittent blurred vision	1
Total	28

Long-Term Use of Tedizolid in Osteoarticular Infections: Benefits among Oxazolidinone Drugs

Eva Benavent ^{1,2}, Laura Morata ^{2,3,4}, Francesc Escihuela-Vidal ¹, Esteban Alberto Reynaga ⁵, Laura Soldevila ^{1,2}, Laia Albiach ³, Maria Luisa Pedro-Botet ⁵, Ariadna Padullés ⁶, Alex Soriano ^{2,3,4} and Oscar Murillo ^{1,2,4,*}

51 casos

30 casos (59%) infecciones relacionadas con material ortopedico (17 IPAs) ----Enterococcus spp.: 4

Media 29 días de tratamiento

OVERALL CURE RATE 83%

Hematological Parameters	N	At the Beginning of Treatment with Tedizolid (mean, SD)	At the End of Treatment with Tedizolid (mean, SD)	p Value	Use of Rifampicin	Days with Tedizolid (Median, IQR)
Hemoglobin (g/L)	45	108.6 ± 20.3	116.3 ± 18.4	0.079	-	29 (15–44)
No anemia *	10	137.5 ± 15.5	141.5 ± 11.8	0.596	30%	29 (17–42)
Mild anemia *	10	114.2 ± 4.4	116.4 ± 11.9	0.586	10%	20.5 (15–29)
Moderate and severe anemia *	25	94.7 ± 2	105.4 ± 3.2	0.004	28%	31 (14–44)
Platelet count (×10 ⁹ /L)	45	240.6 ± 114.6	238.9 ± 92.3	0.942	-	29 (15–44)
>150 × 10 ⁹ /L	33	290.7 ± 15.6	252 ± 20.7	0.134	30.3%	29 (17–42)
<150 × 10 ⁹ /L	12	102.7 ± 8.3	196.5 ± 17.5	0.001	8.3%	37 (9–100)
Leucocytes (×10 ⁹ /L)	45	6.42	6.51	0.887	-	29 (15–44)

Safety of Tedizolid as Suppressive Antimicrobial Therapy for Patients With Complex Implant-Associated Bone and Joint Infection due to Multidrug-Resistant Gram-Positive Pathogens: Results From the TediSAT Cohort Study

Tristan Ferry,^{1,2,3} Anne Conrad,^{1,2,3} Eric Senneville,^{4,5,6} Sandrine Roux,^{1,2} Céline Dupieux-Chabert,^{1,2,3} Aurélien Dinh,^{7,8} Sébastien Lustig,^{2,9} Sylvain Goutelle,^{1,2,10} Thomas Briot,^{1,2} Truong-Thanh Pham,^{1,2,11} Florent Valour^{1,2,3}

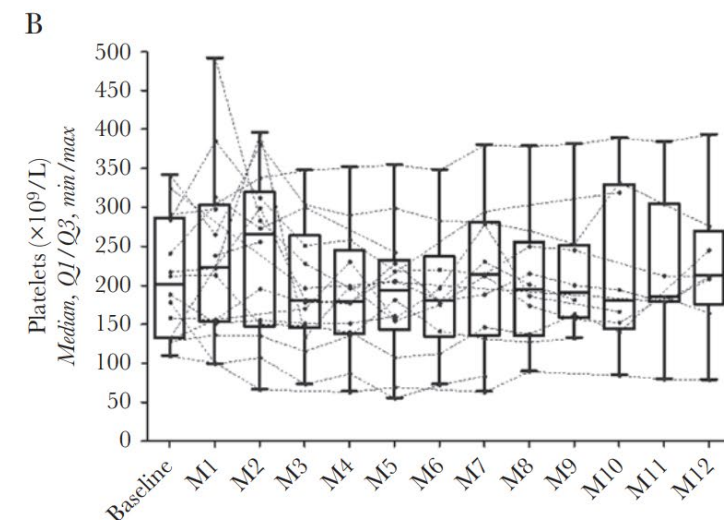
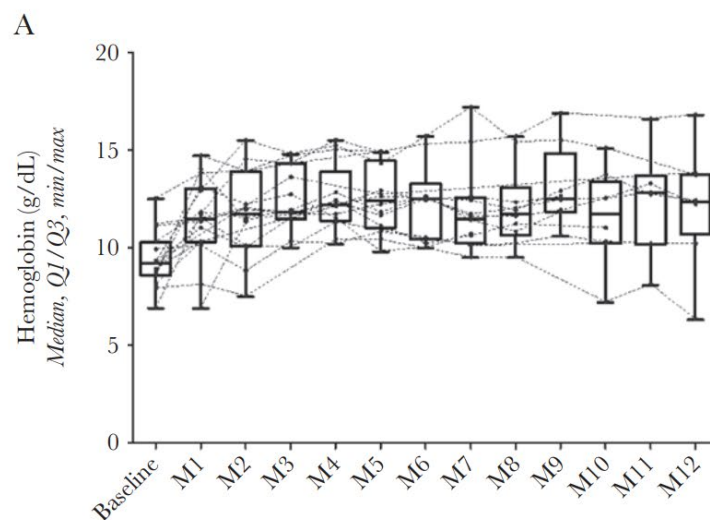
Serie mas larga de pacientes en tto con TZD como TOS para infecciones asociadas a implantes ortopedicos complejos

17 pacientes----- 1 ENTEROCOCO R VANCO

Duración media de tratamiento **6 meses (rango 1-31 meses)**

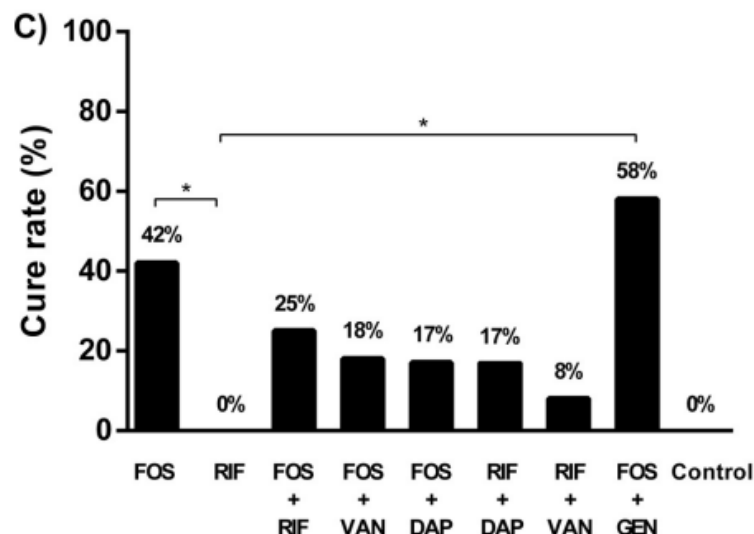
8 pacientes previa mielotoxicidad inducida por Linezolid

OVERALL CURE RATE 76,5%





Activities of Fosfomycin and Rifampin on Planktonic and Adherent *Enterococcus faecalis* Strains in an Experimental Foreign-Body Infection Model



Oliva et al. Antimicrob Agents Chemother 2014.

Enterococcal periprosthetic joint infection: clinical and microbiological findings from an 8-year retrospective cohort study

Nora Renz¹, Rihard Trebse², Doruk Akgün¹, Carsten Perka¹ and Andrej Trampuz^{1*}

	All episodes (n = 75)	Mono-microbial (n = 37)
Intravenous antibiotic agent		
Penicillin derivative	61/74 (82)	30/37 (81)
Vancomycin or daptomycin	12/74 (16)	6/37 (16)
Other	1/74 (3)	1/37 (3)
Additive agent for combination treatment		
→ Fosfomycin	17/74 (23)	9/37 (24)
Gentamicin	16/74 (22)	11/37 (30)
→ Fosfomycin and gentamicin	8/74 (11)	5/37 (14)
Vancomycin or daptomycin	18/74 (24)	4/37 (11)
None	15/74 (20)	8/37 (22)

EUCAST: No puntos de corte. No recomendado tto monoterapia
No diferencias en éxito en tto con o sin fosfomicina

Renz et al. BMC Infect Dis. 2019

LEVOFLOXACINO .. ESCASA EVIDENCIA

Characteristics of prosthetic joint infections due to *Enterococcus* sp. and predictors of failure: a multi-national study

Age of implant at the moment of infection	Type of antibiotic	Remission (%)	Failure (%)	p value
≤30 days	Vancomycin	9 (36)	16 (64)	0.41
	Ampicillin	6 (40)	9 (60)	1
	Rifampin ^{a,b}	12 (60)	8 (40)	0.04
	Aminoglycoside ^a	3 (30)	7 (70)	0.49
	Linezolid	4 (80)	1 (20)	0.15
	Daptomycin	0	1	1
>30 days	Vancomycin	37 (65)	20 (35)	0.60
	Ampicillin	30 (67)	15 (33)	0.49
	Rifampin ^a	35 (58)	25 (42)	0.31
	Aminoglycoside ^a	20 (54)	17 (46)	0.20
	Linezolid	6 (46)	7 (54)	0.22
	Daptomycin	3 (43)	4 (57)	0.42

Moxifloxacin-rifampicin combination for the treatment of non-staphylococcal Gram-positive orthopedic implant-related infections

Classification of infection ^a	Non-staphylococcal bacteria ^d	Surgical management	Intravenous treatment (days)	Total treatment (weeks)	Outcome
Early postop.	<i>E. faecalis</i>	Debridement	18	10	Success
Early postop.	<i>E. faecalis</i>	Debridement	19	1.2	Death
Late chronic	<i>E. faecalis</i>	Removal	12	6	Success
Early postop.	<i>E. faecalis</i>	Removal	12	8	Success
Late chronic	<i>E. faecalis</i>	2-stage exchange	7	8	Failure

Todas las infecciones enterococicas fueron polimicrobianas

Tornero et al. Clin Microbiol Infect 2014.

Fily et al. Clin Med Mal Infect 2019

IPP REFRACTARIA REAGUDIZADA/INFECCION CRONICA SOBRE PROTESIS EN 2º REVISION POR E. FAECALIS

AMOXICILINA	FAIL
LINEZOLID	
DOXICICLINA	
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DAPTOMICINA	
DALBAVANCINA/ORITAVANCINA	
TEDIZOLID	
FOSFOMICINA	
LEVOFLOXACINO	

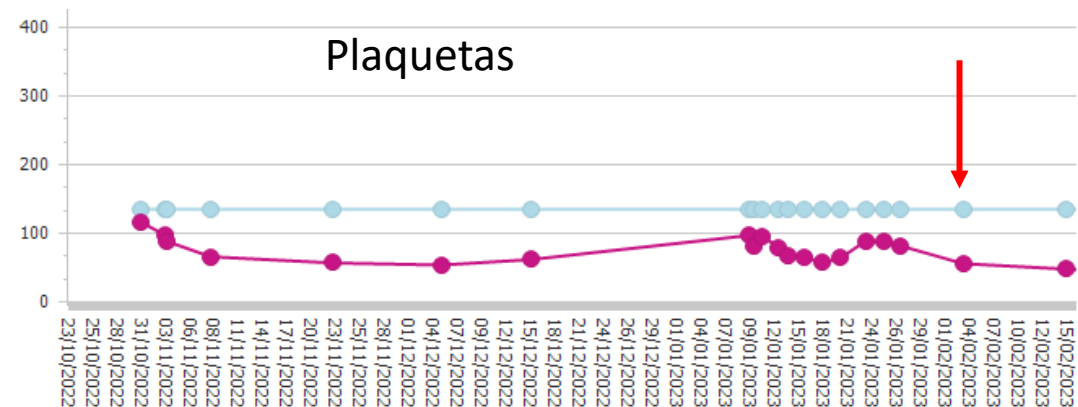
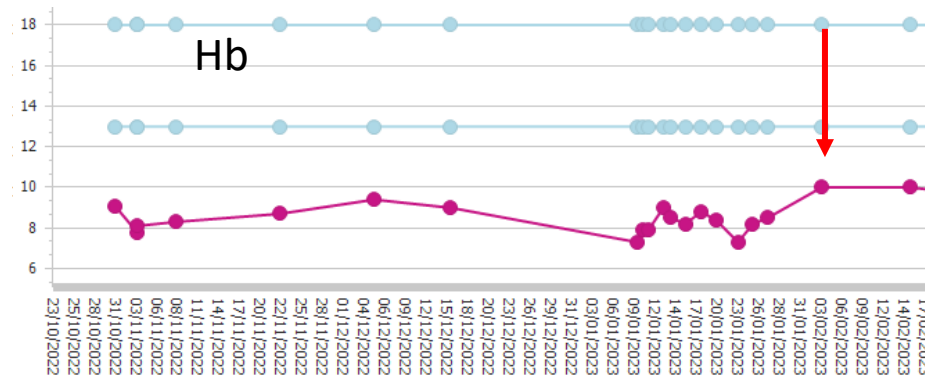
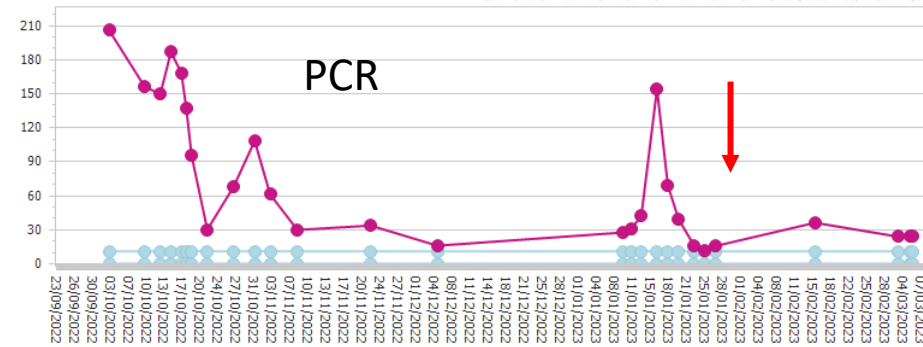
→ AMOXICILINA

SUPRESION ANTIBIOTICA INDEFINIDA

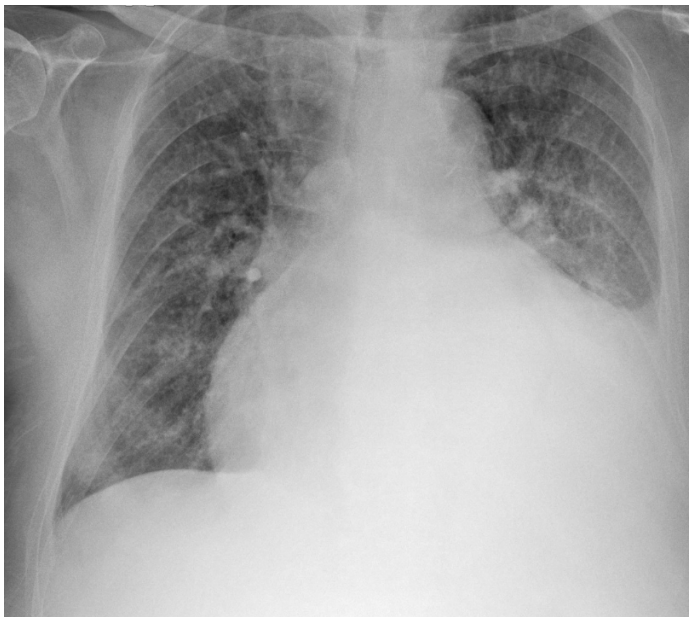
8 SEMANAS

INDEFINIDO.. HASTA CIRUGIA

Tras 3 semanas de tratamiento con TEDIZOLID

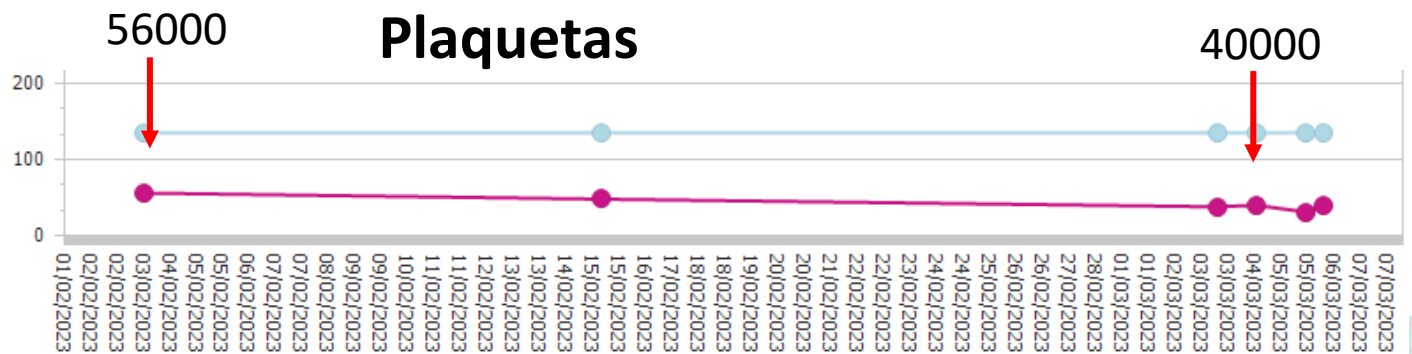
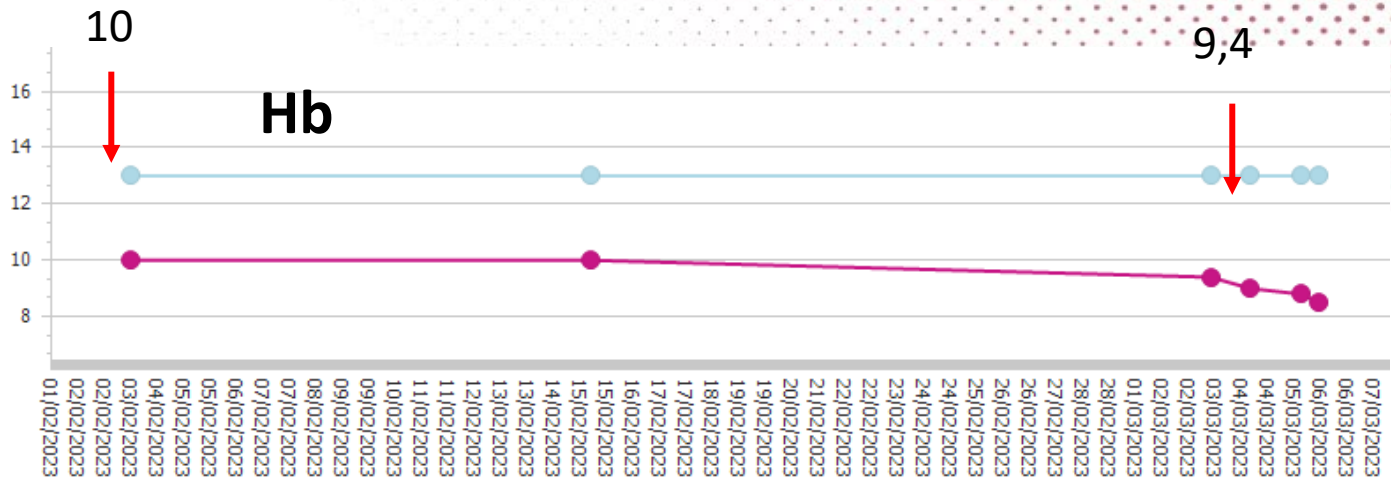


Reingreso a la 5 ° semana de ttoMarzo 2023... EPOC severo reagudizado + ERC OLIGURICA+ICC



Tipo de Oxigenoterapia		Ventimask 28% (FiO2 = 28%)
-Gasometria arterial		
aSan-pH	↓	7,33
aSan-Presion parcial de CO2 (pCO2)	↑	76 mm Hg
aSan-Presion parcial de Oxigeno (pO2)	↓	33 mm Hg
aSan-Bicarbonato	↑	40 mmol/L
aSan-Exceso de base	↑	12,1 mmol/L
aSan-Saturacion de Oxigeno (calculado)	↓	59 %

NTproBNP 2.362 pg/mL



A pesar de bipap..... el paciente fallece a las 72 horas

CONCLUSIONES



Enterococo faecalis: germen de difícil tratamiento

Escasos tratamientos antibiofilm

Arsenal terapéutico poco potente o tóxico... supresión antibiótica difícil

Nuevos (Tedi, dalba, oritavancina) o viejos (quinolonas, fosfomicina)
antibióticos tendrán que demostrar aún su validez, sobre todo en
poblaciones especiales (ERC avanzada)

GRACIAS A TODO EL EQUIPO GEMIO DEL HOSPITAL DE CRUCES

TRAUMATOLOGÍA

CIRUGIA PLÁSTICA

MICROBIOLOGÍA

HOSPITALIZACIÓN
A DOMICILIO

INFECCIOSAS

2023