



WEBINAR

V JORNADA ONCOFARMA

*Actualización en el manejo de la Leucemia Mieloide Aguda
en el paciente adulto y pediátrico*

GEDEFO Centro - Canarias y Cataluña - Baleares

**Manejo de la toxicidad y atención farmacéutica en los
tratamientos de recaída y enfermedad refractaria**

ORGANIZA:



Gema Casado Abad

F.E.A. Sº Farmacia.

Hospital Universitario La Paz

CASO CLÍNICO 2:

10/12/20

- ✓ Mujer 55 años.
- ✓ LMA de alto riesgo citogenético (cariotipo complejo) y FLT3 -TKD mutado.
- ✓ 7/11/20: Recibió tto de inducción - esquema 3x7+ midostaurina:

Idarrubicina 12 mg/m² i.v. días 1 al 3 + citarabina 200 mg/m² i.v. días 1 al 7 + midostaurina 50 mg/12 h. v.o. días 8 al 21

- ✓ Médula + 14: 60% blastos, otra nueva monosomía 15.
Fin de tratamiento: 60% blastos.
- ✓ Refractaria a tratamiento de inducción. Traslado a HULP. Para tto rescate y posterior aloTPH (hermana HLA idéntico).

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✓ Analítica ingreso: Hb 9,9 g/dl ; Hto 29,3% ; **Blastos 53%**
Plaquetas 27.000/ μ l

✓ Pretende inclusión de E.C.: **Protocol ARO-013**

*Phase III Randomized, Double-blind, Placebo-controlled Study
Investigating the Efficacy of the Addition of **Crenolanib** to Salvage
Chemotherapy Versus Salvage Chemotherapy Alone in Subjects ≤ 75
Years of Age with Relapsed/Refractory FLT3 Mutated Acute
Myeloid Leukemia.*

✓ No cumple criterios de inclusión:
estudio NGS: no se detecta FLT3. Se descarta tto.

✓ Colocación CVC: Hickman

13/12/20

✓ Pico febril: cefepime 2g/8 h y vancomicina 1g/12 h

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15/12/20

✓ Tratamiento de rescate con FLAG-IDA:

Farm Hosp. 2012;36(4):261-267



Farmacia
HOSPITALARIA

www.elsevier.es/farmhosp

ORIGINAL

Efectividad y seguridad del régimen FLAG-IDA en leucemias agudas resistentes o recidivantes

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PALABRAS CLAVE

FLAG-IDA;
Efectividad;
Seguridad;
Leucemias agudas;
Síndromes
mielodisplásicos
(SMD)

Resumen

Objetivo: Evaluar la efectividad y seguridad del esquema FLAG-IDA en pacientes con leucemias agudas refractarias o recidivantes.

Método: Estudio observacional descriptivo retrospectivo en el que se revisaron las historias clínicas de pacientes con el esquema FLAG-IDA en el periodo 2005-2010. La efectividad se evaluó mediante la respuesta objetiva, el intervalo libre de progresión y la supervivencia global. La seguridad se midió según el sistema de clasificación NCI, Criterios comunes de Toxicidad para Acontecimientos Adversos.

Resultados: Fueron 12 pacientes (52,17 ± 8,26 años entre las mujeres y 54,83 ± 7,22 años en los hombres), 11 casos fueron leucemias mieloides agudas (5 resistentes, 3 en recaída, una secundaria a leucemia mieloide crónica (LMC) resistente y 2 secundarias a síndrome mielodisplásico (SMD), de las que una fue resistente y la otra no había sido tratada previamente) y un caso de leucemia linfóide aguda (LLA) resistente. Seis pacientes (50%) alcanzaron una respuesta completa (RC). Un paciente consiguió una respuesta parcial (RP) tras la cual se administró otro protocolo indicado consiguiendo posteriormente una RC. 2 fallecieron por progresión de la enfermedad y 3 por complicaciones secundarias al tratamiento.

El intervalo libre de progresión para los pacientes que alcanzaron la RC fue de 24,38 semanas (6 meses). La mediana de supervivencia global fue de 8,4 semanas.

La media del tiempo necesario para la recuperación de la neutropenia fue de 23 y 37 días en el primer y segundo ciclo respectivamente. La media del tiempo necesario para la recuperación de la trombocitopenia fue de 24 y 35 días en cada ciclo.

Conclusiones: El esquema de inducción FLAG-IDA para el tratamiento de pacientes con leucemias de alto riesgo es un esquema establecido, bien tolerado y con una toxicidad aceptable que ofrece una oportunidad para optar al trasplante de progenitores hematopoyéticos.

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ORIGINAL ARTICLE

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FLAG-IDA in the treatment of refractory/relapsed acute myeloid leukemia: single-center experience

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Abstract. We evaluated the efficacy and toxicity profiles of the combination of flutamide, high-dose cytosine arabinoside (Ara-C), idarubicin, and granulocyte colony-stimulating factor (G-CSF) in refractory/relapsed acute myeloid leukemia (AML) patients. Between October 1999 and February 2002, 46 AML patients were treated with FLAG-IDA (flutamide 30 mg/m², Ara-C 2 g/m² for 5 days, idarubicin 10 mg/m² for 3 days, and G-CSF 5 µg/kg from day +6 until neutrophil recovery). Thirty patients were in relapse after conventional chemotherapy including cytarabine, etoposide, and daunorubicin or mitoxantrone according to the GIMEMA protocols. Four were in relapse after allogeneic peripheral stem cell transplantation and two after allogeneic bone marrow transplantation. Ten patients had refractory disease (after 10 days of standard doses of cytarabine, 3 days of idarubicin or daunorubicin, and 5 days of etoposide). Recovery of neutrophils and platelets required a median of 19 and 22 days from the start of therapy. Complete remission (CR) was obtained in 24 of 46 patients (52.1%), and 2 of 46 (4.3%) died during reinduction therapy: 2 due to cerebral hemorrhage and 1 due to pneumonia (Clostridia pneumoniae). Fever >38.5°C was observed in 40 of 46 patients (86.9%), 27 had fever of unknown origin (59%) and 13 documented infections; 31 of 46 (67.4%) developed mucositis and 14 of 46 (30.4%) had grade 2 WHO transient liver toxicity. After achieving CR, 11 patients received allogeneic stem cell transplantation, 4 patients received autologous stem cell transplantation, 4 were judged unable to receive any further therapy, and 5 refused other therapy. Ten patients are at present in

continuous CR after a median follow-up of 13 months (range: 4–24). In our experience, FLAG-IDA is a well-tolerated and effective regimen in relapsed/refractory AML. The toxicity is acceptable, enabling most patients to receive further treatment, including transplantation procedures.

Keywords: Acute myeloid leukemia · Refractory · Relapsed · FLAG-IDA

Introduction

About 30–40% of adult patients with de novo acute myeloid leukemia (AML) achieve complete remission (CR) with the currently available chemotherapy regimens consisting of anthracyclines and cytarabine [4, 29, 30]. However, 15–25% of patients fail to achieve CR because of resistance to treatment and 40% of CR patients will relapse within 2 years. Although several different chemotherapy combinations have been administered to patients with refractory/relapsed AML, the prognosis in this subset of patients is still poor, with a CR rate ranging from 30 to 40% [2, 10, 14, 16, 18, 26]. The goal of reinduction chemotherapy varies from achievement of long-term and complete remission (CR) to providing a bridge to hematopoietic stem cell transplantation (HSCT) aimed at prolonged disease-free (DFS) and overall survival (OS) or to temporary prolongation of life and palliation of symptoms. Most patients have already been exposed to intensive multiagent chemotherapy, and most relapse/refractory in current use cause substantial toxicity [7, 20, 27]. High- or intermediate-dose cytarabine (Ara-C) has been reported to be effective in the salvage treatment of AML [2, 5, 10, 17, 18]. Addition of the purine nucleoside analog flutamide to Ara-C increases the rate of accumulation of Ara-CTP in leukemia blasts by a median order-to-sevenfold in *in vitro* studies [12]. The clinical efficacy of this approach depends on the higher intracellular concentration of the active metabolite Ara-C 5'-triphosphate (Ara-CTP) and the combination of flutamide

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✓ Tratamiento de rescate con FLAG-IDA:



- ✓ Fludarabina 30 mg/m² i.v. días 1-4 (30 min.) + citarabina 2000 mg/m² días 1-5 (4 h.) + Idarrubicina 12 mg/m² días 1-3 (15 min.).

Administrar citarabina: 4 h. después de comenzar infusión de fludarabina.

- ✓ Tto de soporte:

G-SCF 300 µg s.c. : 5 días.

Hidratación y alcalinización. Alopurinol 300 mg comp. /día.

Medidas especiales administración de citarabina:

lagrimas artificiales y colirio de dexametasona (2 gotas en cada ojo cada 6 horas).

vitamina B6 ampolla, antes de cada dosis de citarabina.

cotrimoxazol+ ácido fólico (L.X.V).

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[illegible]

15/12/20

✓ Tener en cuenta:

Toxicidad hematológica: anemia, trombocitopenia y neutropenia.

Toxicidad cardiaca: antraciclinas. Solicita electrocardiograma.

16/12/20

✓ Persistencia de fiebre y aumento de RFA. Oxigenoterapia.

✓ Aciclovir 800 mg 1comp/12 h.

✓ Meropenem 1g/8h. vancomicina 1g/8h.

✓ Posaconazol 300 mg/día v.o. (guías ECIL3, grado A1).

✓ Rash abdominal: citarabina. Pauta betametasona crema.

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17/12/20

- ✓ Traslado a UCI: Shock séptico de origen respiratorio (posible LII) vs tunelitis CVC.
- ✓ Meropenem 2g/8h. y linezolid 600 mg iv/12 h. .
- ✓ Levofloxacin 500 mg iv/12 h.
- ✓ Anfotericina B 200 mg/24 h. + cotrimoxazol 2 amp/6h + corticoide
- ✓ Aciclovir 670 mg/ 8h IV.
- ✓ Retira CVC por sospecha de infección.
- ✓ Buena evolución clínica y no se obtienen cultivos microbiológicos.
- ✓ Traslado a planta: evoluciona favorablemente.

20/12/20

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28/12/20

- ✓ Retira progresivamente terapia antimicrobiana: afebril.
- ✓ Retira oxigenoterapia.
- ✓ Colocación CVC tipo Hickman.

30/12/20

- ✓ Nuevo episodio desaturación que requiere aporte de oxígeno.
- ✓ Inicio de antibioterapia con meropenem 1g/8h. cotrimoxazol 2 ampollas/ 4h.
- ✓ Aciclovir 1000 mg/ 24 iv. Levofloxacin 500 mg iv/día.
- ✓ Posaconazol 300mg iv/24 h.
- ✓ 48 h: aislamiento de S. epidermis en hemocultivos.
- ✓ Añade tto vancomicina y sellado catéter con vancomicina intraluminal

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HOSPITAL UNIVERSITARIO LA PAZ Guía de elaboración y control

7 Solución estéril intracatéter - VANCOMICINA 5 MG/ML SELLADO CATETER [Cantidad: 20] N°Form

			Lote	Núm.int.	Localiz
Vancomicina		0,025 g	[0,5]		
Cloruro sódico 0,9%	csp	5 ml	[100]		
Vial/5 mL		1 u.	[20]		

F.Recep.: 08-02-2021 F.Elabor.: 08-02-2021

Caducidad: 15-02-2021 Núm.Ped.: 364

Núm.Rec.: 12430

Paciente: STOCK

Modus Operandi:

PREPARACIÓN EN CFL VERTICAL.

- 1.- Reconstituir un vial de Vancomicina 500 mg iv @ con 10 ml de agua para inyección.
- 2.- Extraer 10 ml de una bolsa de Cloruro Sódico 0,9% 100 ml.
- 3.- Añadir 10 ml del vial de Vancomicina 500mg ya reconstituido al Cloruro Sódico 0,9% para obtener una concentración de 5 mg/ml.
- 4.- Dosificar los viales estériles necesarios por cada paciente con 5 ml de solución de Vancomicina 5 mg/ml empleando un filtro de 0,2 µ.
- 5.- Etiquetar cada vial
- 5.- Dejar en nevera la bolsa de Vancomicina 5mg/ml hasta caducidad.

OBSERVACIONES: Además de lote y caducidad, anotar nombre comercial de vancomicina.

Utillaje:

Jeringas, trasvasador, filtro esterilizante 0,22 micras y agujas

Control analítico:

Control de calidad:

Solución transparente sin partículas en suspensión.

Material de acondicionamiento:

20 VIALES VIDRIO ESTÉRILES 10 ML

Caducidad: 15-02-2021

Conservación: En frigorífico (2-8°C).

Notas:

-Observaciones:

- Vancomicina 5 mg/ml es una "solución madre", caducidad 7 días.
- La Guía de elaboración es válida esa semana. Los viales se reetiquetan por paciente y se pega una etiqueta en la Guía
- Salida a la unidad con mayor consumo semanal

Recepcionado por: Fátima Ros Castellar

Elaborado por: Laura Sanz Baro

Firmado:

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5/01/21



7/01/21



15/01/2021

✓ Buena evolución clínica de forma progresiva, permite desescalar antibiótico.

✓ Niveles de vancomicina: 29,57 µg/ml (15-20 µg/ml). Suspende y se ajustan niveles 6/01/21.

✓ Hemocultivos de control de sellado a 5 días: aislamiento de S. epidermis. Paciente afebril.

✓ Pico febril y retirada de CVC.

✓ Rx torax: neumonía en LSD.

✓ Meropenem y Linezolid.

✓ Aciclovir y Posaconazol profilaxis.

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18/01/21

✓ +36 FLAGIDA: repite AMO 20% blastos.

22/1/21

✓ Refratariedad: tto de rescate con azacitidina + venetoclax



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TIMING DEL ALO-TIR SECUENCIAL (Figura 1):

- En situación de quimio-resistencia a la inducción (2 ciclos, uno con Ara-C 2g/m²)
 - ERM persistente o recaída post tratamiento Venetoclax-AZA o HMA, en pacientes "fit"
 - Otras recaídas con baja % de blastos en MO <25%
1. LMA Refractaria: persistencia de > 5% blastos o EMR+ tras 2 ciclos QT inducción que incluya Citarabina a altas dosis (HDAC), en ausencia de un ensayo clínico abierto: plantear rescate con Venetoclax-AZA por uso compasivo. Intentar realizar el TPH en los primeros 3 meses.
- a) Si RC, EMR -, paciente fit: AloTPH mieloablativo.
 - b) Si no RC con bajo % blastos en MO < 25% o EMR+ pre-trasplante: realizarían un Alo-TIR Secuencial (con Bu x 2 ó 3 días, según edad y Sorrow HCT-CI), seguido de intervenciones profilácticas post-trasplante combinando estrategias farmacológicas con ILD: Hipometilantes (HMA), inhibidores de dianas moleculares (Sorafenib, Gilteritinib, Evosidenib, Idasidenib, etc) o Venetoclax en combinación con HMA (por uso compasivo o si según disponibilidad de un ensayo clínico en este escenario del post-trasplante)

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The highs and lows of venetoclax with hypomethylating agents for refractory AML

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ARTICLE INFO

Keywords:
Acute myeloid leukemia
Venetoclax
Azacitidine
Decitabine

Treatment of acute myeloid leukemia (AML) has changed dramatically over the last several years, as novel chemotherapeutics are incorporated into standard therapy. At the time of AML diagnosis, patients and physicians now confront a far more complex treatment decision tree, which may also impact future options in the case of relapsed or refractory disease. At the same time, the approach to AML progression now takes into account new molecular targets of treatment, the potential to bridge even older patients to a transplant, and a growing number of effective novel therapies.

Until only a few years ago, relapsed or refractory AML (R/R AML) left providers and patients deciding between two general extremes: intensive chemotherapy using a reduction regimen incorporating traditional cytotoxic agents; or using a palliative treatment – commonly one of the azacitidine, azacitidine or decitabine (hypomethylating agent therapies, “HMA”). The former provided a moderate chance of attaining a remission, but often with significant toxicity; in contrast, the response rate to HMA monotherapy is quite low, although the immediate toxicity from treatment may be perceived as more manageable [1]. Since then, the use of targeted agents as salvage therapy has become an appealing option, such as for mutations in the *IDH1* or *IDH2* genes or mutation in the *FLT3* receptor, but such alterations are only present in a minority of AML cases.

In contrast, adding venetoclax to standard HMA chemotherapy does not explicitly depend upon the presence or absence of a particular mutation. This has some benefits for venetoclax + HMA as a treatment strategy: there is no delay in waiting for the results of next-generation sequencing, and molecular targets may be preserved as future salvage options, if needed. The response rates of patients with newly-diagnosed AML who are then treated with venetoclax in combination with HMA

are encouraging, and although not directly compared to data may rival the response rates seen with standard frontline induction regimens – with over 60 % reporting CR or CRi [2,3]. These and other studies have resulted in the uptake of HMA + venetoclax in clinical practice. An outstanding question, however, is whether the activity of this combination is preserved and toxicity acceptable when used as salvage for relapsed or refractory disease.

Many questions then arise with HMA + venetoclax for relapsed or refractory AML: who is likely to respond, what is the optimal dosing, should this be prioritized over other options for relapsed disease – including and targeted therapies. To date, there is limited data for HMA + venetoclax in R/R AML available to inform clinical practice. DiNardo and colleagues retrospectively identified patients treated with venetoclax combinations, primarily with HMA or low-dose cytarabine (LDAC), and reported a far more modest response rate in the R/R setting of only 9 patients of 43 (21 %; 2 CR, 3 CRi, and 4 morphologic leukemia-free state) [2]. As may be expected, complications seen in R/R AML were more frequent than in the front-line setting, with 72 % having a grade 3 or higher infection, and 5 early deaths within 30 days (12 %). A separate retrospective analysis by Ailles and colleagues, in contrast, showed more encouraging response rates in the salvage setting [4]. In that study, a total of 33 patients were treated with HMA + venetoclax, with a CR + CRi rate of 51 % (17 of 33, 10 CR, 7 CRi); nearly all responses occurred within three cycles of treatment, and just over half of patients experienced an SAE during the first treatment cycle.

In the current paper, Gaut and colleagues describe 14 patients with relapsed or refractory AML who were treated with venetoclax combined with either HMA or low-dose cytarabine [5]. This series reports an overall response rate of 35.7 % – three patients with CRi and two

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Research paper

Venetoclax combination therapy in relapsed/refractory acute myeloid leukemia: A single institution experience

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ARTICLE INFO

Keywords:
Acute myeloid leukemia
Relapsed/refractory
Venetoclax
Objective response rate
Progression-free survival

ABSTRACT

Venetoclax (VEN) is a selective BCL-2 inhibitor that has been shown to be effective when used in combination with hypomethylating agents (HMA) or low-dose cytarabine (LDAC) for treatment-naïve, elderly acute myeloid leukemia (AML) patients unfit for intensive chemotherapy. Data on its use in the relapsed/refractory setting are limited. A retrospective analysis was performed among 14 patients with relapsed or refractory AML treated with VEN combination therapy at the University of California Los Angeles from 2018–2019. Eight patients received VEN in combination with azacitidine, 5 patients with decitabine, and 1 patient with LDAC. The majority (10 patients, 71.4%) had adverse cytogenetics. These patients (21.4%) had undergone an allogeneic stem cell transplant prior to VEN therapy, and 5 patients (35.7%) had leukemia that failed HMA therapy prior. The objective response rate (ORR) was 35.7% (3 patients achieved complete remission with incomplete hematologic recovery and 2 patients achieved partial remission). Three patients (21.4%) were successfully transitioned to either allogeneic bone marrow transplant (2 patients) or donor lymphocyte infusion (1 patient). Seven patients (50.0%) developed a grade 3 or greater infection following VEN therapy, and 3 patients (21.4%) developed a grade 3 or greater intracranial hemorrhage. Three patients experienced early death within 30 days of therapy (2 from infection, 1 from bleeding). The median overall survival (OS) was 4.7 months, and the 1-year OS rate was 23.6% (95% CI 4.4–51.2) for the entire patient cohort. Overall, the response rate was not inferior to that with conventional salvage chemotherapy, but there were notable complications as a result of prolonged cytopaenia.

1. Introduction

Venetoclax (VEN) is a highly selective inhibitor of the antiapoptotic protein B-cell lymphoma 2 (BCL-2) that can restart the deregulated process of apoptosis in malignant cells [1]. BCL-2 overexpression is implicated in the survival of acute myeloid leukemia (AML) cells and treatment resistance [2,3]. In a phase II trial, VEN monotherapy was investigated for the treatment of AML in the relapsed/refractory and front-line settings and produced a modest response, with an objective response rate (ORR) of 19% [4]. Subsequent studies of combination

therapy of VEN with hypomethylating agents (HMAs) or low-dose cytarabine (LDAC) have demonstrated much better responses. In older, treatment-naïve AML patients, phase I/II studies have shown a complete remission (CR)/complete remission with incomplete hematologic recovery (CRi) rate of 62% for VEN in combination with LDAC and 67% for VEN in combination with HMAs [5,6].

In the relapsed/refractory setting, data on VEN combination therapy is currently limited to retrospective studies [7,8]. The most frequent grade 3/4 adverse events with VEN combination therapy thus far reported are cytopaenia, which can be dose limiting [5,9]. Given the

Abbreviations: AML, acute myeloid leukemia; ANC, absolute neutrophil count; BCL-2, b-cell lymphoma 2; CR, complete remission; CRi, complete remission with incomplete hematologic recovery; CTCAE, common terminology criteria for adverse events; ECOG, eastern cooperative oncology group; ELN, European LeukemiaNet; FLT3, Fms-like tyrosine kinase 3; G-CSF, granulocyte colony-stimulating factor; HMA, hypomethylating agent; IDH2, isocitrate dehydrogenase 2; LDAC, low-dose cytarabine; MRSA, methicillin-resistant *Staphylococcus aureus*; NPM1, nucleophosmin 1; ORR, objective response rate; OS, overall survival; PR, partial remission; PFS, progression-free survival; RBC, red blood cell; RUNX1, runt-related transcription factor 1; TP53, tumor protein 53; VEN, venetoclax.

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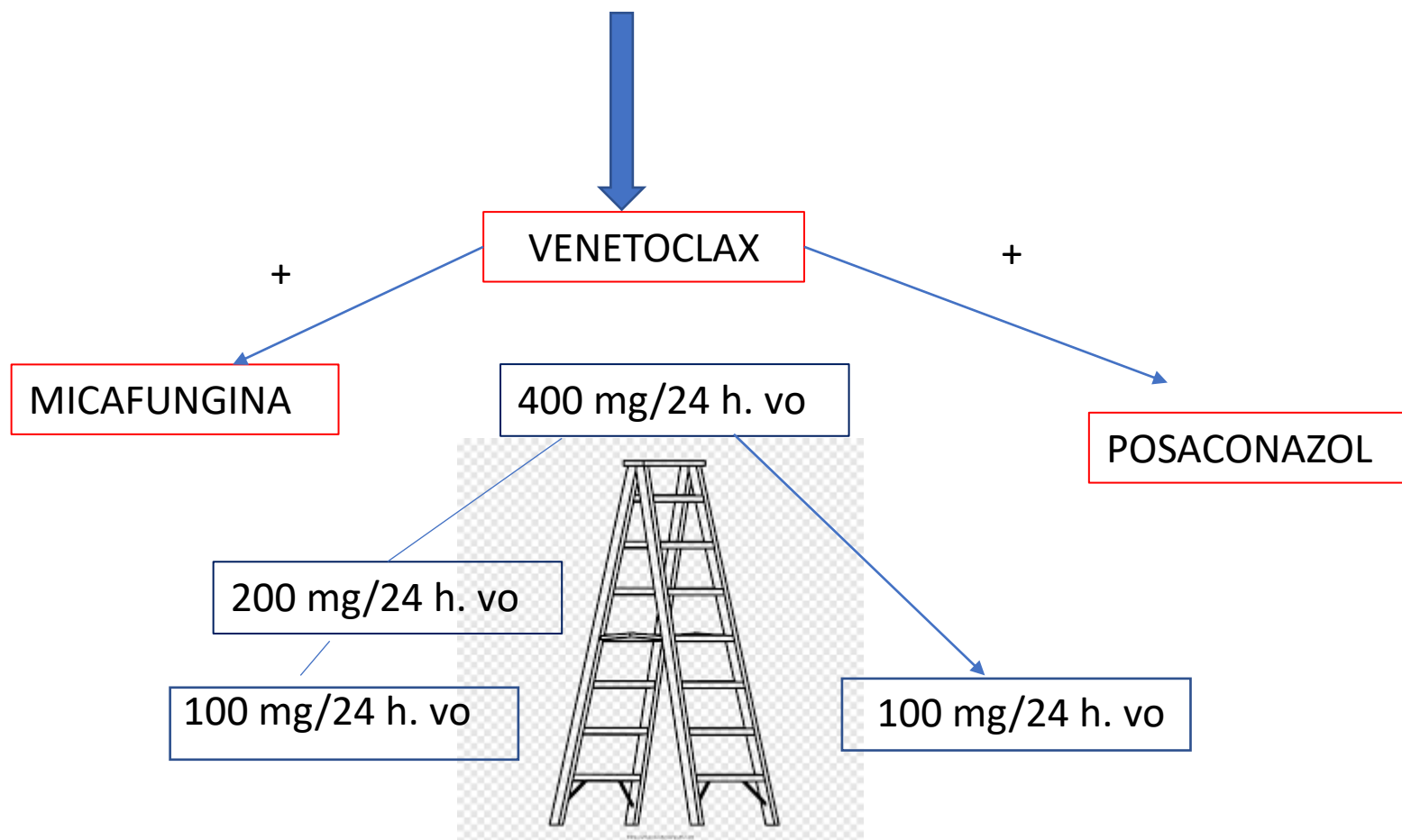
ORGANIZA:



WEBINAR V JORNADA ONCOFARMA

Actualización en el manejo de la Leucemia Mieloide Aguda en el paciente adulto y pediátrico
GEDEFO Centro - Canarias y Cataluña - Baleares

VENETOCLAX (escalada de dosis) día v.o. + azacitidina 75 mg/m² días 1-7 iv/ 28 días



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Lexicomp® Drug Interactions

Add items to your list by searching below.

Enter item name

ITEM LIST

Clear List

Analyze

- Venetoclax

- Micafungin

Display complete list of interactions for an individual item by clicking item name.

X Avoid combination	C Monitor therapy	A No known interaction
D Consider therapy modification	B No action needed	More about Risk Ratings

Filter Results by Item ▼ Print

No interactions of Risk Level A or greater identified.

DISCLAIMER: Readers are advised that decisions regarding drug therapy must be based on the independent judgment of the clinician, changing information about a drug (eg, as reflected in the literature and manufacturer's most current product information), and changing medical practices.

Lexicomp® Drug Interactions

Add items to your list by searching below.

Enter item name

ITEM LIST

Clear List

Analyze

- Venetoclax

- Posaconazole

Display complete list of interactions for an individual item by clicking item name.

X Avoid combination	C Monitor therapy	A No known interaction
D Consider therapy modification	B No action needed	More about Risk Ratings

1 Result

Filter Results by Item ▼ Print

D Venetoclax
Posaconazole

DISCLAIMER: Readers are advised that decisions regarding drug therapy must be based on the independent judgment of the clinician, changing information about a drug (eg, as reflected in the literature and manufacturer's most current product information), and changing medical practices.

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How I treat acute myeloid leukemia in the era of new drugs

Courtesy D. DiNardo¹* and Andrew H. Wei²*

¹Department of Leukemia, University of Texas MD Anderson Cancer Center, Houston, TX; and ²Department of Hematology, The Alfred Hospital and Monash University, Melbourne, VIC, Australia

The acute myeloid leukemia (AML) treatment landscape has changed substantially since 2017. New targeted drugs have emerged, including venetoclax to target B-cell lymphoma 2, midostaurin and gilteritinib to target FLT3, and ivosidenib and enasidenib to target mutant isocitrate dehydrogenase 1 and 2, respectively. Other additions include reapproval of gemtuzumab ozogomycin to target CD33, glasdegib to target the hedgehog pathway, and a liposomal formulation of daunorubicin and cytarabine (CPX-351). Genomically heterogeneous AML has a tendency to evolve, particularly under selective treatment pressure. For decades, treatment decisions have largely centered around chemotherapy drug intensity. Physicians now have access to an increasing number of drugs with novel mechanisms of action and distinctive side-effect profiles. Key issues faced by hematologists in this era of new drugs include (1) the timely identification of actionable mutations at diagnosis and at relapse; (2) deciding which drug to use among several therapeutic options; and (3) increasing awareness of how to anticipate, mitigate, and manage common complications associated with these new agents. This article will use 3 case presentations to discuss some of the new treatment challenges encountered in AML management, with the goal of providing practical guidance to aid the practicing physician. (Blood. 2020;135(2):85-95)

Introduction

Prior articles in the How I Treat series on acute myeloid leukemia (AML) have focused on acute promyelocytic leukemia, treatment of hematologic emergencies, intensive chemotherapy, management of older individuals, patients with hyperleukocytosis or preexisting comorbidities, and relapsed and refractory FLT3-mutant AML (Table 1). The recent wave of new drug approvals by the US Food and Drug Administration (FDA) (Tables 2 and 3) has created overlapping treatment options, especially in older, unfit populations, as well as in refractory/relapsed patients. Although these new therapies are a welcome advance for patients with AML, the “abundance of riches” also introduces new challenges for the treating physician. Key issues now include (1) the need for timely identification of actionable mutations, not just at diagnosis but also at relapse; (2) deciding which drug to use among several therapeutic options may be available; and (3) the need for increased awareness of how to anticipate, mitigate, and manage common complications associated with these new agents. Most clinical trial publications do not inform clinicians about how to manage emergent toxicities, and review papers predominantly focus on efficacy. In this newest addition to the How I Treat AML series, we present 3 case studies that illustrate how we select and use some of the recently approved AML therapies in the clinic, with practical guidance pertaining to the management of anticipated drug-related complications.

Patient 1: an elderly woman with previously untreated AML

A 75-year-old woman presented with progressive shortness of breath and fatigue over a 6-month period. Blood work demonstrated a

white blood count (WBC) of $2.6 \times 10^9/L$, with 79% blasts; hemoglobin, 89 g/dL; neutrophils, $0.76 \times 10^9/L$; and platelets, $28 \times 10^9/L$. The bone marrow was infiltrated with 94% myeloblasts that were immunophenotypically CD34⁺, CD117⁺, CD13⁺, and CD33⁺. The karyotype showed trisomy 13, and molecular profiling revealed RUNX1, ASXL1, and SRSF2 mutations. Biochemistry revealed a mildly increased serum lactate dehydrogenase ($1.3 \times$ upper limit of normal [ULN]) and creatinine ($1.4 \times$ ULN). She had an Eastern Cooperative Oncology Group (ECOG) performance score of 2.

Question Should this patient receive intensive chemotherapy (ie, 7 + 3 plus or minus gemtuzumab ozogomycin [GO], CPX-351, low-dose cytarabine [LDAC] plus or minus glasdegib or venetoclax, or a hypomethylating agent [HMA] plus or minus venetoclax)?

Proposed treatment

For all patients and whenever possible, enrollment in a clinical trial is our first consideration. Additionally, we recommend rapid screening for actionable mutations (ie, FLT3, isocitrate dehydrogenase 1 and 2 [IDH1 and IDH2], as FLT3 inhibitors, ivosidenib, or enasidenib, respectively, are either FDA approved or listed in the National Comprehensive Cancer Network (NCCN) compendium for patients ≥ 75 years, or considered unfit for intensive chemotherapy).

Although some older patients benefit from intensive chemotherapy, several prognostic scoring systems are available that estimate early mortality with intensive chemotherapy in patients ≥ 65 years with various comorbidities. Given her age of ≥ 75 years, her baseline renal impairment, and an ECOG ≥ 2 , the risk of early mortality was likely to be high.¹ In addition, the European

Table 4. Summary of our recommendations for venetoclax administration

Issue	Management
Target drug doses	Venetoclax: 400 mg/d $\times$ 28 d + azacitidine 75 mg/m ² days 1-7 or decitabine 20 mg/m ² daily days 1-5 subcutaneously or M-CR Venetoclax 600 mg/d $\times$ 28 d + LDAC 20 mg/m ² daily days 1-10 subcutaneously
Prevention of TLS	Identify patients with higher risk of TLS: WBC $> 25 \times 10^9/L$, uric acid above 7.5 mg/dL (0.46 mmol/L), creatinine above 1.4 mg/dL (0.4 mmol/L). All patients, especially those with an elevated risk of TLS should be hospitalized until at least completion of ramp-up dosing. Prior to commencing venetoclax: • For patients with hyperleukocytosis, commence hydroxyurea 400-600 mg bid or oral low-dose aspirin 81-100 mg bid until the WBC is $< 25 \times 10^9/L$, prior to starting venetoclax. • Commence TLS prophylaxis with hydration and uric acid agents and normalize potassium, inorganic phosphorus, and uric acid levels according to institutional practice. • For some molecularly defined AML subtypes with high sensitivity to venetoclax, eg, newly diagnosed NPM1 or IDH mutation, we have noticed TLS may even occur in patients with a WBC $< 25 \times 10^9/L$; such patients should be monitored carefully for rapid cytoreduction and early onset of severe hypokalemia; in such cases, we also consider lowering the starting WBC $< 10 \times 10^9/L$ to lower TLS risk prior to initiation of venetoclax. Ramp-up/initial venetoclax dosing in steps: 100 mg day 1, 200 mg day 2, 400 mg day 3 (for HMA), 600 mg day 4 (for LDAC). Monitor for TLS complications pre-dose ($\times 4$ h) and 6-8 h after each ramp-up dose with additional monitoring until normalization of abnormal biochemistry. If significant biochemical or clinical TLS is observed, delay further venetoclax dosing until resolution.
Optimize venetoclax dosing	Use venetoclax within 30 min after a meal with ~ 1 cup of water. If HMA used, consider antiemetic prophylaxis (eg, ondansetron). Before commencing venetoclax, patients should have at least a 3-day washout from drugs with CYP3A4 inhibitor activity, as well as grapefruit juice, Seville orange, and starfruit. ² CYP3A4 inducers should be avoided; if venetoclax dose ramp-up should reach 400 mg before combination with CYP3A4 inhibitors is commenced; for combination with moderate CYP3A4 inhibitors (eg, ciprofloxacin, fluconazole, or low-dose rifampin), reduce the venetoclax daily dose by 50% (eg, from 400 mg to 200 mg); if strong CYP3A4 inhibitors are used (eg, voriconazole or posaconazole), we recommend reducing the venetoclax daily dose by at least 75% (eg, from 400 mg to 100 mg); pharmacokinetic studies have shown that venetoclax 50 mg daily when coadministered with posaconazole 300 mg daily most closely resembles the pharmacokinetic characteristics of venetoclax 400 mg daily without posaconazole ³ ; therefore, for patients with moderate venetoclax-related adverse events (eg, neutropenia) when coadministered with strong CYP3A4 inhibitors, a further dose reduction of venetoclax to 50 mg should be considered.
Preventing infection	Severe and prolonged neutropenia is common with these regimens, even after achieving remission. For patients with grade 4 neutropenia ($< 0.5 \times 10^9/L$), antifungal prophylaxis according to institutional practice; if CYP3A4 inhibitors are used (eg, ciprofloxacin and/or azole antifungal), venetoclax dose adjustment is required (see optimizing venetoclax dosing). Hospitalization until hematologic recovery should be considered for selected patients with a high risk of complications or inadequate social support networks to enable safe outpatient management. Treatment-related neutropenia may occur in the later part of the cycle and require rapidly with commencement of G-CSF.
Managing myelosuppression	Patient reduction management assessment should be performed on days 21-28. If blast excess persists, commence the next cycle without treatment dose interruption. If marrow blasts $< 5\%$, mild venetoclax and start next cycle when there has been at least partial hematologic recovery (neutrophils $< 0.5 \times 10^9/L$ and platelets $< 50 \times 10^9/L$); G-CSF may be used to accelerate neutrophil recovery if neutrophils $< 0.5 \times 10^9/L$. In subsequent cycles for patients with $< 5\%$ marrow blasts, monitor blood counts $\sim$ weekly; if treatment-related grade 4 neutropenia persists for > 7 days, or if a patient develops severe complications, intensify venetoclax dosing, and start G-CSF until neutrophil recovery. We do not reduce the venetoclax dose to manage myelosuppression. Consider shortening venetoclax duration for subsequent cycles. If hematologic recovery takes > 14 days after interrupting venetoclax for neutropenia and/or thrombocytopenia, the following stepwise reductions could be considered: 21 days $\rightarrow$ 21 days $\rightarrow$ 14 days; consider reducing HMA dose intensity by 50% if marrow cellularity is 15% to 30%, or to 33% dose intensity if marrow cellularity $< 15\%$ in the setting of clinical response with delayed or lack of hematologic recovery. Prophylactic G-CSF after HMA (day 0) or LDAC (day 1) could be considered for patients with treatment-related delays due to neutropenia.
Patients with hepatic impairment	In subjects with severe hepatic impairment (Child-Pugh C), reduce venetoclax dose by 50%.
Patients with renal impairment	If GFR > 30 mL/min, no venetoclax dose adjustment is necessary. If GFR < 30 mL/min, no literature exists on venetoclax pharmacokinetics.

Abbreviations: CYP3A4, cytochrome P450 3A4; TLS, tumor lysis syndrome. See Table 3 for expansion of other abbreviations.

Optimize venetoclax dosing	Take venetoclax within 30 min after a meal with ~1 cup of water If HMA used, consider antiemetic prophylaxis (eg, ondansetron) Before commencing venetoclax, patients should have at least a 3-day washout from drugs with CYP3A4 inhibitor activity, as well as grapefruit juice, Seville oranges, and starfruit¹¹; CYP3A4 inducers should be avoided; the venetoclax dose ramp-up should reach 400 mg before combination with CYP3A4 inhibitors is commenced; for combination with moderate CYP3A4 inhibitors (eg, ciprofloxacin, fluconazole, or isavuconazole), reduce the venetoclax daily dose by 50% (eg, from 400 mg to 200 mg); if strong CYP3A4 inhibitors are used (eg, voriconazole or posaconazole), we recommend reducing the venetoclax daily dose by at least 75% (eg, from 400 mg to 100 mg); pharmacokinetic studies have shown that venetoclax 50 mg daily when coadministered with posaconazole 300 mg daily most closely resembles the pharmacokinetic characteristics of venetoclax 400 mg daily without posaconazole¹¹; therefore, for patients with persistent venetoclax-related adverse events (eg, neutropenia) when coadministered with strong CYP3A4 inhibitors, a further dose reduction of venetoclax to 50 mg should be considered.
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Actualización en el manejo de la Leucemia Mieloide Aguda en el paciente adulto y pediátrico
GEDEFO Centro - Canarias y Cataluña - Baleares

¹Leukemia Service, Department of Medicine, and ²Department of Pharmacy, Roswell Park Comprehensive Cancer Center, Buffalo, NY

This review article discusses the unique toxicities associated with currently approved targeted therapies for AML, including both mutation-specific and nonspecific agents. Each section uses specific patient scenarios to illustrate the decision making for individual patients and includes specific recommendations for when to proceed with therapy and when to stop.

Actualización en el manejo de la Leucemia Mieloide Aguda en el paciente adulto y pediátrico
GEDEFO Centro - Canarias y Cataluña - Baleares

25/01/21

- ✓ Paciente mejora sin picos febriles con descenso en analítica de RFA y se retira oxigenoterapia.
- ✓ 10 días en tratamiento con meropenem+linezolid se suspende tto.
- ✓ Afebril, sin oxigenoterapia y estable HD.

29/01/21

- ✓ Buena tolerancia esquema de azacitidina + venetoclax. Sin datos analíticos de SLT.

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01/02/21

- ✓ Astenia, disnea de moderados esfuerzos.
- ✓ Transfusión de plaquetas.
- ✓ Alta médica

- ✓ Venetoclax 100mg comp.: 1 comp./24 h.
- ✓ Posaconazol 100 mg comp.: 3 comp/24 h.
- ✓ Cotrimoxazol 400/80 mg comp: 1 comp. L,X,V /12 h.
- ✓ Aciclovir 800 mg comp.: 1 comp. /12 h.
- ✓ Alopurinol 300 mg comp.: 1 comp. /12h.

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Programa: TRATAMIENTO CON ANTI NEOPLASICO Servicio: HEMATOLOGIA DISPENSACION EXTER Prox. Consulta: 00/00/0000 Estatura: 0 m S.Corp.: 0 m² Edad: 55 años, 3 meses y 3 días

Paciente 1 de 2

F. último informe médico: Pendiente de Revisar ☒ Estación Clínica

Sin cita ☐

Prescripción Dispensación Devolución Texto Asociado +Prescrip

P. Activo: VENETOCLAX

Disp.	V. Med.	Adh.	Producto	Via	Unidades	Dosis	U. Medida	Secuencia Horaria	Calendario	Cantidad	Envases	Nº Recetas	Días	Volver	Validar	Inicio Admin.	Dosis Pac.	
☐	☒	☒	VENCLYXTO 100 mg comp recub	OR	1.000	100	MILIGRAMO	A las 10 horas	DIARIA	0.000				0	01/03/2021	01/03/2021	00/00/0000	17.00

Programa: OTROS TRATAMIENTOS PARA PACIENTE Servicio: HEMATOLOGIA DISPENSACION EXTER Prox. Consulta: 00/00/0000 Estatura: 0 m S.Corp.: 0 m² Edad: 55 años, 3 meses y 3 días

Paciente 2 de 2

F. último informe médico: Pendiente de Revisar ☒ Estación Clínica

Sin cita ☐

Prescripción Dispensación Devolución Texto Asociado +Prescrip

P. Activo: POSACONAZOL

Disp.	V. Med.	Adh.	Producto	Via	Unidades	Dosis	U. Medida	Secuencia Horaria	Calendario	Cantidad	Envases	Nº Recetas	Días	Volver	Validar	Inicio Admin.	Dosis Pac.	
☒	☒	☒	POSACONAZOL 100 mg comp (NOXAFL)	OR	3.000	300	MILIGRAMO	A las 9 horas	DIARIA	0.000				0	05/03/2021	06/03/2021	00/00/0000	63.00

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HOJA DE INFORMACIÓN AL PACIENTE

VENCLYXTO® (Venetoclax)

- ¿Qué es y para qué se utiliza?

Venclxyto® cuyo principio activo es venetoclax, es un medicamento utilizado para tratar la leucemia linfocítica crónica (LLC) en monoterapia o:

- en combinación con rituximab en pacientes adultos que hayan recibido al menos un tratamiento previo
- en combinación con obinutuzumab en pacientes adultos sin tratamiento previo.

- ¿Cómo se administra?

La dosis de inicio es de 20 mg de venetoclax una vez al día durante 7 días. La dosis se aumenta de forma gradual durante un periodo de 5 semanas, hasta alcanzar la dosis diaria de 400 mg.



SEMANA	DOSES (mg)
1	20
2	50
3	100
4	200
5	400

El comprimido debe tomarse entero por vía oral **junto con las comidas** para evitar el riesgo de pérdida de eficacia. Tómelo siempre a la **misma hora** junto con un vaso de agua. No se pueden ni triturar ni fraccionar ni masticar. Durante el tratamiento con Venclxyto® deben evitarse los productos que contengan pomelo, las naranjas amargas y la carambola (fruta estrella). Si va a iniciar un nuevo medicamento o va a tomar algún producto de herbolario consúltelo primero con su farmacéutico.

Si olvida tomar una dosis de Venclxyto® y no han transcurrido más de 8 horas, debe tomar la dosis olvidada. En caso de que hayan transcurrido más de 8 horas, no tome esa dosis y continúe con la pauta habitual al día siguiente.

- ¿Qué efectos secundarios pueden aparecer?

Como todos los medicamentos, Venclxyto® puede tener efectos adversos, lo cual no significa que vayan a aparecer en todos los pacientes.

- Pueden aparecer **muy frecuentemente**: Fatiga, problemas digestivos (diarrea, náuseas, vómitos, estreñimiento), infecciones del tracto respiratorio superior, alteraciones hematológicas.

- También podrían aparecer, aunque **con menor frecuencia**: Sepsis, infección del tracto urinario, aumento de los niveles de ácido úrico, aumento de los niveles de creatinina en sangre.

- Acuda a urgencias si presenta superior a 38° o de más de 2 días de evolución.

- Conservación:

No utilice Venclxyto® después de la fecha de caducidad que aparece en el envase. La fecha de caducidad es el último día del mes que se indica.

Este medicamento no requiere condiciones especiales de conservación.

- Contacto

Si tiene alguna duda respecto al medicamento puede contactar con Farmacia en el teléfono: 912777072 ó 912071641 ó por mail: pacext.hulp@salud.madrid.org

Horario de atención a Pacientes Externos:

Lunes -Viernes: 8:30-14.45; y de 16:30-17.00.

- Recuerde que:

Tome su medicamento exactamente como le ha indicado su médico.

Informe a su médico o farmacéutico si está tomando o ha tomado recientemente otros medicamentos, incluso los adquiridos sin receta.

Conservar sus medicamentos, siempre que sea posible, en su envase original.

Devuelva la medicación no utilizada a la farmacia del hospital.

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GEDEFO Centro - Canarias y Cataluña - Baleares

14/02/21



17/02/21



- ✓ Ingresa por fiebre.
- ✓ Cefepime y levofloxacinó por antecedente foco pulmonar.
- ✓ Día + 23 (1º ciclo de azacitidina-ventoclax):
RC con EMR -.

- ✓ Afebril.
- ✓ Cefepime 2g/8 h.
- ✓ Pauta para 18/02/21 el 2º ciclo de azacitidina+ venetoclax

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Validación Farmacéutica - Internet Explorer

Paciente 1 de 1

Afiliación Activo
Alergias: otros (alergia medicamentosa)
Datos fisiológicos
P: 68,1Kg, T: 170,3cm, ASC: 1,791m²

Prescripción médica actual Episodio de Hospitalización

Prescripción Médica Actual

Prescripción Farmacológica

M	Fecha Ini.	Hora Ini	Medicamento	Posología	Vía	Días Tto	Fecha Fin	Hora Fin	Fecha Mod	Dosis por Peso/S.C.	Usuario	Estado	Validado por
☐	ATB												
☐	14/02/2021	10:47	(CEFEPIMA) CEFEPIMA 2 g vial líf IV	2 gramo (1 vial) Cada 8h	INTRAVENOSA	2	Crónica	14/02/2021 13:58:27		0,03 G/KG/TOMA 0,09 G/KG/DIA	Isabel Garcia Bosque	Prescrito	
☐	14/02/2021	10:47	(LEVOFLOXACINO) LEVOFLOXACINO 500 mg comp recub	500 miligramo (1 comp) A las 12 horas	ORAL	2	Crónica	14/02/2021 13:58:28		7,34 MG/KG/TOMA 7,34 MG/KG/DIA	Isabel Garcia Bosque	Prescrito	
☐	Otros												
☐	14/02/2021	10:47	(CLORAZEPATO DIPOTASICO) TRANXILIMUM 5 mg (CLORAZEPATO) cap	5 miligramo (1 cápsula) Cada 8h <i>Si ansiedad</i>	ORAL	2	Crónica	14/02/2021 13:58:27		0,07 MG/KG/TOMA 0,21 MG/KG/DIA	Isabel Garcia Bosque	Prescrito	
☐	14/02/2021	10:47	(LORAZEPAM) LORAZEPAM 1 mg comp	1 miligramo (1 comp) Cada 8h <i>Si ansiedad</i>	ORAL	2	Crónica	14/02/2021 13:58:27		0,01 MG/KG/TOMA 0,03 MG/KG/DIA	Isabel Garcia Bosque	Prescrito	
• Si ansiedad a pesar de tranxilium													
☐	14/02/2021	10:47	(DIETA CON RESIDUO (FIBRA SOLUBLE)) NOVASOURCE GI PROTEIN 500 ml	500 mililitros (500 mililitros) Merienda	ORAL	2	Crónica	14/02/2021 13:58:28		7,34 ML/KG/TOMA 7,34 ML/KG/DIA	Isabel Garcia Bosque	Prescrito	
☐	14/02/2021	10:47	(AMLODIPINA) AMLODIPINO 5 mg comp	5 miligramo (1 comp) A las 9 horas <i>Si TA> 140/90 mmHg</i>	ORAL	2	Crónica	14/02/2021 13:58:28		0,07 MG/KG/TOMA 0,07 MG/KG/DIA	Ana Mendoza Martinez	Prescrito	

Prescripción No Farmacológica

Observaciones	Estado	Fecha Ini. T	Tipo	Prestación	Frecuencia	Fecha Fin	Episodio	S.I.	Usuario	Ámbito	Protocolo	D
	Prescrito	14/02/2021	Control y Vigilancia	CONSTANTES:TA, PULSO , Tª, EVA DE DOLOR	Continuamente		1231836324		Isabel Garcia Bosque			
Si T>37,8	Prescrito	14/02/2021	Peticiones externas	HEMOCULTIVOS	Continuamente		1231836324		Isabel Garcia Bosque			
	Prescrito	14/02/2021	Dieta	DIETA OA- BASAL	Continuamente		1231836324		Isabel Garcia Bosque			
	Prescrito	14/02/2021	Ventilación y Gases Medicinales	SATURACION OXIGENO	Continuamente		1231836324		Ana Mendoza Martinez			

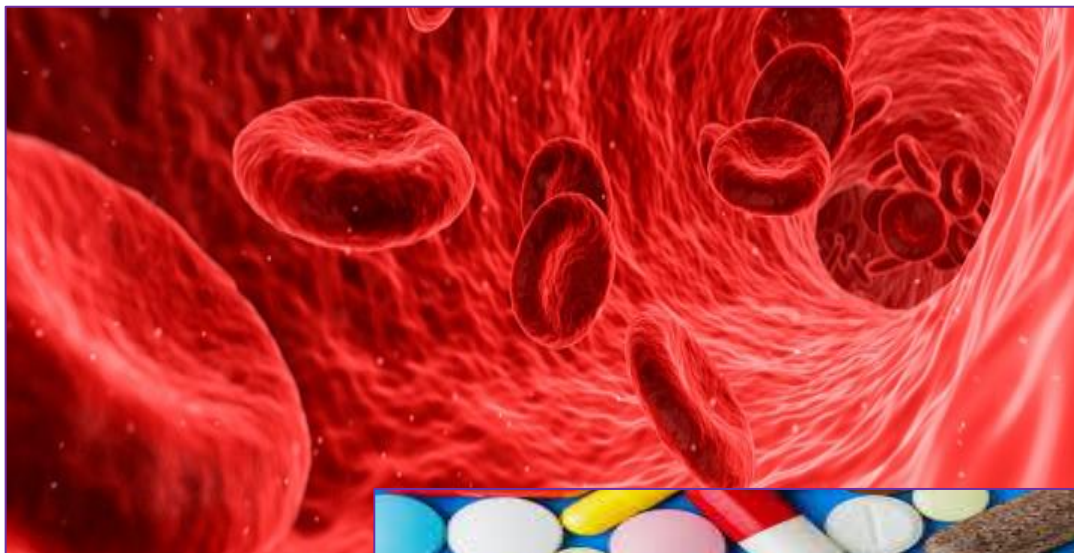
Total 4 Prescripciones no Farmacológicas

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¡GRACIAS!

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