

**HOT
NEWS**

NELLE SINDROMI LINFOPROLIFERATIVE: inarrestabile dinamicità

Un caso di linfoma marginale

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UNAHOTELS Decò

Company name	Research support	Employee	Consultant	Stockholder	Speakers bureau	Advisory board	Other
None							

F., 55 anni – Feb 2020- Quadro all'esordio

- ❑ ECOG-PS = 1
- ❑ In anamnesi **progresso k-mammella** nel 2016 trattata con quadrantectomia bilat +IFRT bilat + ormonoterapia (exemestane, triptorelina)
- ❑ 17/01/2020: **linfadenopatie retroperitoneali** (iliaca comune sx (16x15 mm) iliaca-otturatoria sc (35x20 mm) alla TC con mdc per FU oncologico
- ❑ 22/01/2020: **Biopsia LN iliaco est sx (IEO)** → Linfoma di derivazione da linfociti B periferici della zona marginale, ad insorgenza nodale, **IHC CD20+, cd5-, CD10-, BCL2+(debole). KI67 15%**

F., 55 anni – Sett 2020 - Stadiazione

MILANO

STAGING->

- ✓ **TC/PET con FDG (10/02/2020):** lesioni ad elevato metabolismo glucidico in sede linfonodale sottodiaframmatica (> 4 sedi Ln) + **focale accumulo osso iliaco sx e femore (SUV max 5)**
- ✓ **BOM (10/02/2020) :** **negativa** per infiltrazione da linfoma
- ✓ **RM osso (18/03/2020):** **lesioni sostitutive attive** nell'osso iliaco dx e nella cresta iliaca sx + formazione con estensione CC di 13 cm femore sx



Aprile 2020

Biopsia neoformazione ala iliaca sx: Localizzazione ossea da LNH a cellule B periferiche, coerente con **linfoma della zona marginale**



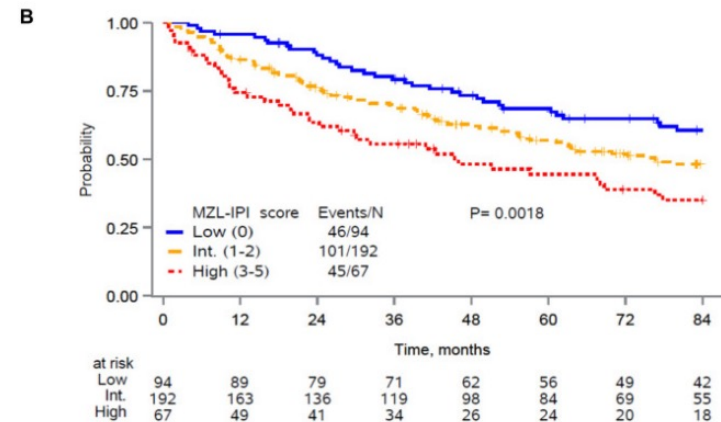
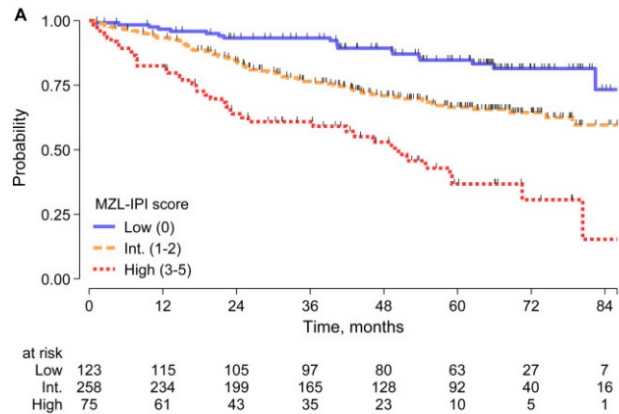
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MZL-IPI

- ✓ LDH
- ✓ Anemia
- ✓ Piastrinopenia
- ✓ Linfopenia
- ✓ Sottotipo (*ENMZL/SMZL* vs ***NMZL/ dissMZL***)



Low
Intermediate
High risk



F., 55 anni – Mag 2020 – Terapia di I linea

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- Stadio IV E, LDH normale,
- Hb 12,8 g/dL, Gb 2700/mmc, Neu 1570/mmc, **Linfociti 800/mmc**, PLTs 228000/mmc
- ECOG = 0
- **MZL-IPI intermediate**

- **TERAPIA 1 linea : Rituximab-Bendamustina x 6 cicli (Ciclo 1 -> maggio 2020)**

- ☐ **Tossicità**
 - ➔ dopo primo e secondo ciclo: Neutropenia (G2)
 - ➔ dopo IV ciclo : **AEA da IgM di tipo freddo** (Hb 8,0 g/dl e indici di emolisi aumentati)

- ✓ **Rivalutazione post IV ciclo (con TC/PET) : RISPOSTA parziale metabolica per persistenza di captazione a livello femorale**

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F., 55 anni – Terapia di I linea personalizzata

- ✓ *TERAPIA 1 linea : **R-Bendamustina x 4 cicli** , non esegue 5 e 6 ciclo per AEA*
- ✓ *Continua terapia con **Rituximab settimanale x 4 dosi + PDN** (stop terapia 30/10/2020)*
- ✓ ***IFRT consolidamento** III distale femore (36 GY) dal 02/11/2020 al 01/12/2020*

... da Dicembre 2020 follow up

- **Aprile 2021 : TC/PET → Risposta metabolica completa**

Ottobre 2022 – 1 recidiva a 2 anni, OT 26 mesi

- Follow up oncologico con PET e RMN osso → comparsa lesioni cresta iliaca sx
- W&W per assenza di sintomi
- Dicembre 2022: RMN osso → progressione vertebrale e costale
- Maggio 2023: biopsia lesione cresta iliaca → localizzazione di LNH
- Il linea : Inibitore chinasi di Bruton, ZANUBRUTINIB (settembre 2023) sospende ormonoterapia

Il linea : Zanubrutinib

Profilo di Tossicità :

- ✓ No citopenia, videat cardio ok
- ✓ Riferisce dolori ossei G1

Rivalutazione risposta :

- ✓ Dopo **6 mesi (febbraio 2024)**: PET/TC total body → **Risposta parziale**
- ✓ Maggio 2024 (+9 mesi) RMN whole body → **confermata risposta parziale**

MAGNOLIA trial

Disease Characteristics

MAGNOLIA

Characteristic	Total (N=68)
MZL subtypes, n (%)	
Extranodal	26 (38.2)
Nodal	26 (38.2)
Splenic	12 (17.6)
Unknown ^a	4 (5.9)
Site of disease for MALT subtype, n (%)	
Gastric	2 (7.7)
Cutaneous	4 (15.4)
Nongastric/noncutaneous	19 (73.1)
Unknown	1 (3.8)
Lymphoma involvement in bone marrow^b, n (%)	29 (42.6)
Bulky disease, n (%)	
LDI >5cm	25 (36.8)
Extranodal disease^c, n (%)	53 (77.9)
Refractory disease^d, n (%)	22 (32.4)
Evidence of FDG-avid disease by IRC, n (%)	
FDG-avid	61 (89.7)
Non-FDG-avid	7 (10.3)

Data cutoff: 16 January 2021

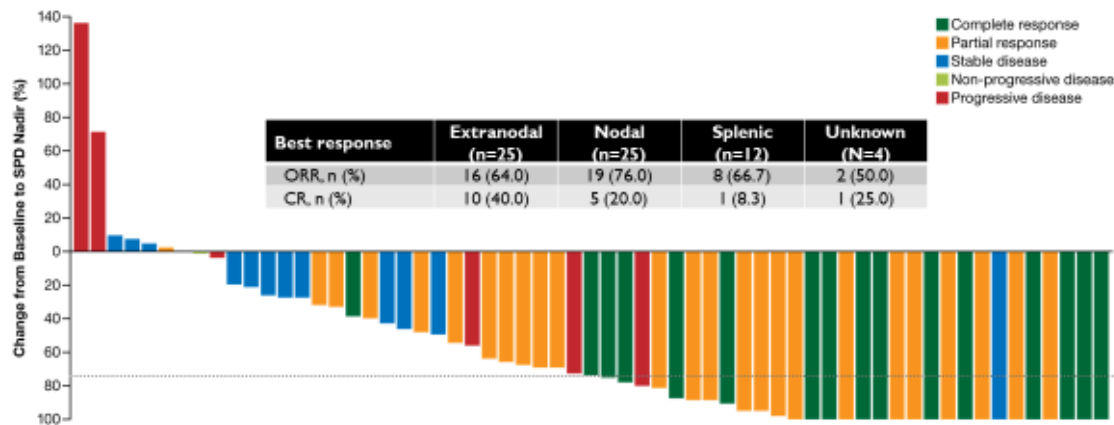
^aFour patients presented with both nodal and extranodal lesions; investigators were unable to classify the MZL subtype. ^bDerived from baseline bone marrow biopsy/aspiration per investigator assessment. ^cExtranodal disease is defined as patients with extranodal/baseline target or nontarget lesions, or bone marrow involvement, as per investigator assessment. ^dRefractory disease is defined as less overall response of stable disease or PD from the prior ambisense regimen.

ICC01/Western Cooperative Oncology Group (WC01)-dependent, ruxitinib, 150/270-mg-associated lymphoid tissue, MZL/non-nodal, noncutaneous lymphoma, LDI/longest transverse diameter of a lesion, FDG/fluorodeoxyglucose

Duan J et al. Clin Cancer Res (2021) 27 (23): 6322-6332. This study is registered at ClinicalTrials.gov (NCT02846427)

Change in Target Lesion SPD by IRC

MAGNOLIA



Data cutoff: 18 January 2021

Only patients with nonmissing BCR and SPD percentage change were included (n=61). Dashed line: * median reduction in SPD (74%).

BCR: Best overall response; CR: Complete response; IRC: Independent review committee; NCL: Nodular sclerosing lymphoma; PD: Progressive disease; PR: Partial response; SD: Stable disease; SPD: Sum of products of perpendicular diameters

Cappi E et al. Clin Cancer Res (2021) 27 (23): 6329-6333. This study is registered at ClinicalTrials.gov (NCT03946427)

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Summary

MAGNOLIA

- ▶ **The MAGNOLIA study enrolled patients with high-risk features, including:**
 - ▶ Elderly patients (median age 70 years)¹
 - ▶ 27.9% of patients were ≥75 years old
 - ▶ Heavily pre-treated (median of 2 prior lines of therapy)²
 - ▶ 34% of patients had ≥3 prior treatments and 98.5% of patients received prior chemotherapies
 - ▶ Refractory disease¹
 - ▶ **Nodal MZL¹**
- ▶ **After a median study follow-up of 15.7 months:**
 - ▶ High ORR of 68.2% and CR rate of 25.8% by independent review¹
 - ▶ ORR higher than prespecified null ORR of 30% (P<0.0001)
 - ▶ Responses were observed in all MZL subtypes and in high-risk patients³
 - ▶ Median PFS and median DOR not reached¹
 - ▶ 93% of responders were progression/death-free at 12 months after initial response
 - ▶ PFS rate was 82.5% at 15 months
 - ▶ Treatment discontinuation due to AEs occurred in 4 patients; none were considered related to zanubrutinib¹
 - ▶ Grade 5 AEs occurred in 3 patients (including 2 patients who died from COVID-19 pneumonia)¹
 - ▶ Atrial fibrillation/flutter occurred in 2 patients¹
 - ▶ No major hemorrhage was reported¹

Data cutoff January 18, 2021.

¹Age ≥75; ORR ≥69%; ≥3 prior lines; ORR ≥50%; refractory disease; ORR ≥71%; Nodal MZL; ORR ≥46%.

AE: adverse event; COVID-19: coronavirus disease; CR: complete response; DOR: duration of response; MZL: marginal zone lymphoma; ORR: overall response rate; PFS: progression-free survival; PFS2: progression-free survival; PR: partial response; R/R: relapsed/refractory; SD: stable disease.

1. Qiu J et al. Poster presented at EHA 2021. Abstract No. 87783. 2. Qiu J et al. ASH 2020. Abstract 319. This study is registered at ClinicalTrials.gov (NCT02846437).

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Author Conclusions^{1,2}

MAGNOLIA – Final Analysis

- ▶ At a median study follow-up of 28 months:
 - ▶ Zanubrutinib showed high response rates and durable disease control in R/R MZL
 - ▶ ORR of 68% (by PET and/or CT) and 67% (by CT only) with a CR of ~25% by IRC
 - ▶ Responses in all MZL subtypes and in difficult-to-treat subgroups
 - ▶ At 24 months: PFS rate, 71%; DOR rate, 73%; OS rate, 86%
- ▶ Zanubrutinib was generally well tolerated
 - ▶ Hypertension and atrial fibrillation/flutter were uncommon; comparable rate to zanubrutinib pooled safety analyses and lower than reported for ibrutinib
 - ▶ One (1.5%) patient had major gastrointestinal hemorrhage while receiving concomitant anticoagulant
 - ▶ No new safety signals observed

Data cutoff date: 04 May 2023.

CT¹computed tomography, DOR²duration of response, CR³complete response, IRC⁴independent review committee, MZL⁵marginal zone lymphoma, OS⁶overall survival, PET⁷positron emission tomography, PFS⁸progression-free survival, R/R⁹relapsed/refractory.

1. Opat S et al. Oral presentation presented at ASH 2023. Abstract 30443. Opat S et al. Blood Advances 2023;https://doi.org/10.1182/bloodadvances.202310466

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