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# **Caso Clinico – Linfoma Follicolare**

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Hotel Albani

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#### **Disclosures of Beatrice Casadei**

Company name	Research support	Employee	Consultant	Stockholder	Speakers bureau	Advisory board	Other
Abbvie					х	х	
Gilead					х	x	
Takeda						x	
Janssen						x	
BMS-Celgene						x	
BeiGene						x	
Incyte							x
Novartis					x		
Lilly						x	
Roche					х		



# M.E.M, MALE, 02/10/1975

## Past medical history:

- Occult HBV infection → Lamivudine
- Hypothyroidism  $\rightarrow$  Levothyroxine
- Non-Functioning Pituitary Adenomas

## Diagnosis: September 2006

- Inguinal lymph node biopsy: Follicular Lymphoma grade 1
- Stage IVA (bone marrow), FLIPI: 1
- GELF criteria:  $\geq$  3 nodal sites involved with a diameter of >3 cm



# WHICH THERAPY WOULD YOU HAVE CHOSEN?

- 1) R-CHOP
- 2) R-CVP
- 3) R-FM
- 4) **R-BENDAMUSTINE**
- 5) Chlorambucil

6) Clinical Trial

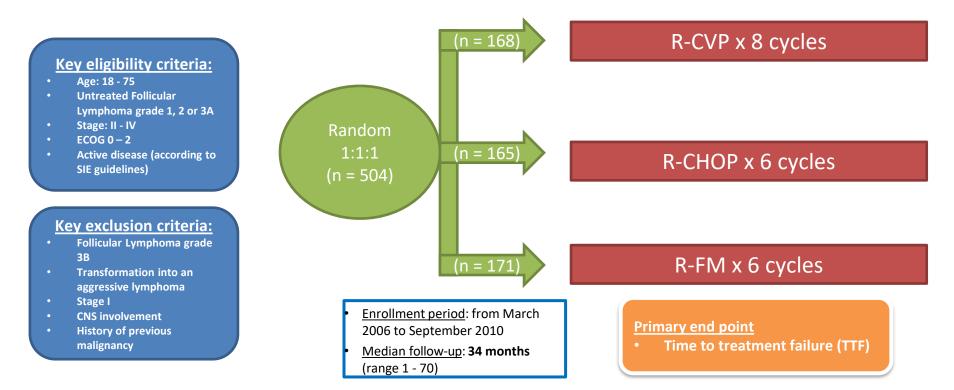
Minimum Clinical Recommendations for diagnosis, treatment and follow-up of newly diagnosed follicular lymphoma, Hiddeman W. et al, Annals of Oncology 2005

FOLL05 Trial: prospective, randomized, open-label, multicenter phase III trial including untreated patients with advanced stage symptomatic FL

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## FIRST LINE: FOLL05 TRIAL (phase 3)

• R-CVP x 8 cycles  $\rightarrow$  CR (2007)

- Axillary lymph node biopsy: Follicular Lymphoma, grade 1/2
- Stage IVA (bone marrow)

## WHICH THERAPY WOULD YOU HAVE CHOSEN?

- 1) R-CHOP
- 2) R-Bendamustine

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3) Ibritumumab - Tiuxetan

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- 4) High-Dose Chemotherapy (R-IEV/R-ICE/R-DHAP) + ASCT
- 5) Clinical Trial

## SECOND LINE: STANDART TX

- R-CHOP X 6 cycles  $\rightarrow$  CR (2012)
- Consolidation with ASCT:

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- Cyclophosphamide 4 g/mq and HSC Harvesting  $\geq$
- BEAM + ASCT  $(14/05/2012) \rightarrow$  CR (September 2012)  $\triangleright$

2° Relapse: 11/12/2020 (+ 8 aa)

- Abdominal lymph node biopsy: Follicular Lymphoma, grade 1/2 •
- **Stage IVA** (bone marrow, skeleton) •

## WHICH THERAPY WOULD YOU HAVE CHOSEN?

1) Obinutuzumab - Bendamustine

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- 2) Rituximab Lenalidomide
- 3) Clinical trial

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- 4) High-Dose Chemotherapy (R-IEV/ R-ICE/R-DHAP)
- 5) Idelalisib

Newly diagnosed and relapsed follicular lymphoma: ESMO Clinical Practice Guidelines for diagnosis, treatment and follow-up. Dreyling M. et al, Annals of Oncology 2020

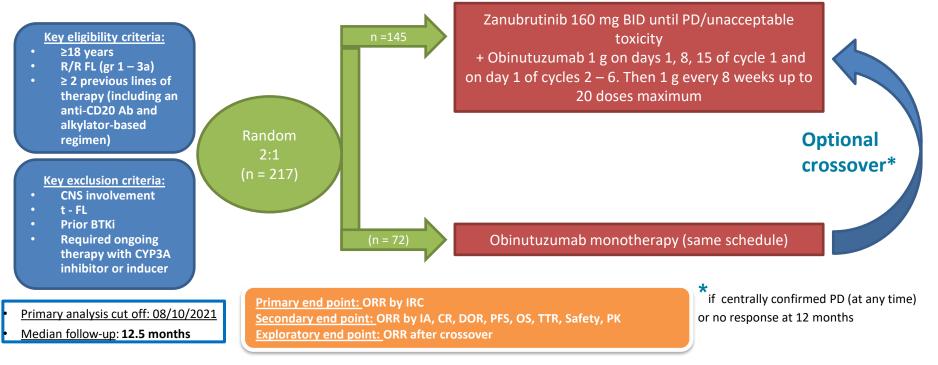
Firenze, 12 Settembre 2023 Hotel Albani

# BGB 3111 – 212\_ROSEWOOD trial: an international, phase 2, open-label, randomized study of zanubrutinib + obinutuzumab vs obinutuzumab monotherapy in r/r FL

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## BGB 3111 – 212: Obinutuzumab + Zanubrutinib: ROSEWOOD trial

Patients characteristics	ZO (n = 145)	O (n = 72)
Median age (years)	64	64
Median number of previous lines of therapy	3	3
> 3 previous lines of therapy (%)	28	25
High FLIPI (%)	53	51
Refractory to any previous anti-CD20 therapy (%)	54	50
Refractory to last line of therapy (%)	32	40
POD 24	28	32

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Results	ZO (n = 145)	O (n = 72)		
ORR (%)	68.3	45.8		
CRR (%)	37.2	19.4		
18 – mo DOR (%)	70.9	54.6		
Median PFS (mo.)	27.4	11.2		
Median time to new anti-lymphoma therapy or crossover (mo.)	NR	12.1		
18 – mo OS (%)	85.4	72.6		
29 patients crossed over: <b>ORR 24.1%</b>				

ROSEWOOD: A phase II randomized study of Zanubrutinib plus obinutuzumab versus Obinutuzumab Monotherapy in patients with relapsed or refractory follicular lymphoma. Zinzani P.L et al, 2023 J Clin Oncol.

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## BGB 3111 – 212: Obinutuzumab + Zanubrutinib: ROSEWOOD trial

Any grade AE in the ZO	% of patients			
cohort		Grade ≥3 AE in the ZO cohort	% of	
Thrombocytopenia	34.3		patients	
	ν	Neutropenia	22.4	
Neutropenia	27.3			
		Thrombocytopenia	14%	AE leading to death: 5.6% (ZO
Diarrhea	16.1			cohort) vs 9.9% (O cohort)
		Atrial Fibrillation	0.7	
Fatigue	14			
		Major bleeding	1.4%	
Cough	11.9			

Zanubrutinib + Obinutuzumab demonstrated superior efficacy to Obinutuzumab monotherapy in treatment of patients with R/R FL, with a favorable benefit-risk

> ROSEWOOD: A phase II randomized study of Zanubrutinib plus obinutuzumab versus Obinutuzumab Monotherapy in patients with relapsed or refractory follicular lymphoma. Zinzani P.L et al, 2023 J Clin Oncol.

# THIRD LINE: CLINICAL TRIAL (phase 2)

Obinutuzumab + Zanubrutinib (BGB 3111 - 212) x 10 cycles from 26/01/2021 to  $28/10/2021 \rightarrow ORR: CR$ 

- PET-FDG after 3° cycle: PR
- PET-FDG after 6° cycle: CR
- PET-FDG after 10° cycle: CR
- BOM after 10° cycle: negative for lymphoma

## Adverse events:

• Oral and genital HSV reactivation (during cycle 9)

# WOULD YOU HAVE CONSOLIDATE?

Allo - SCT

• **DONOR**: 24 years male, matched unrelated (MUD), HLA 10/10

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• SOURCE OF HSC: PBSC

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- **BLOOD TYPE**: AB0 minor incompatibility (Donor 0+/Recipient B+)
- CMV SIEROLOGY: donor lgG-/recipient lgG+

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- CONDITIONING REGIMEN: Thiotepa, Fludarabine, Cyclophosphamide (from 11/11/2021 to 14/11/2021)
- GVHD PROPHYLAXIS: ATG 6 mg/kg (from day 6 to day 2), CSA 3 mg/kg/die (from day 1), MTX 10 mg/m<sup>2</sup> on day + 1, + 3 and +

6.

- INFUSION: 17/11/2021
- → 6.94 x 10<sup>8</sup>/kg total nucleated cells
- $\rightarrow$  5.76 x 10<sup>6</sup>/kg CD34+ cells
- → 145.8 x 10<sup>6</sup>/kg CD3+ cells



## Allo - SCT

### **ACUTE COMPLICATIONS:**

- 1. Parainfluenza virus type 3 infection  $\rightarrow$  symptomatic treatment
- 2. S. epidermidis infection  $\rightarrow$  Daptomycin + Piperacillin Tazobactam
- 3. Deep vein thrombosis of the right internal jugular vein  $\rightarrow$  LMWH

### **CHRONIC COMPLICATIONS:**

- 1. + 3 months: COVID infection with mild symptoms  $\rightarrow$  Sotrovimab early treatment
- 2. No GVHD occurred

### **EVALUATION OF DISEASE:**

- → PET-FDG + 3 months: CR. FISH 99.4% donor. Blood type 0+ (donor)
- → PET-FDG + 6 months: CR. FISH 100% donor
- → PET-FDG + 12 months: CR