

# Where Science Becomes Hope

# IS MRD AN IMPORTANT CLINICAL ENDPOINT IN FRONTLINE MANAGEMENT OF CLL?

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# FRONTLINE MANAGEMENT OF CLL: BTK INHIBITOR OR VENETOCLAX-BASED1

#### Venetoclax + Obinutuzumab<sup>2</sup>

**Fixed duration** 

**Excellent responses:** 5-year PFS = 62.6%

= 40.6% in del(17p)/TP53m

mPFS = 76.2 months

Side effects of note: tumor lysis risk, neutropenia, infections,

diarrhea

#### Zanubrutinib<sup>3</sup> or Acalabrutinib +/- Obinutuzumab<sup>4</sup>

Continuous treatment until progression or intolerance

Excellent responses: Zanu mPFS = NR at median f/u 44 mos

42-mo PFS = 82.4%

= 79.4% in del(17p)

A +/- O mPFS = NR at median f/u 74 mos

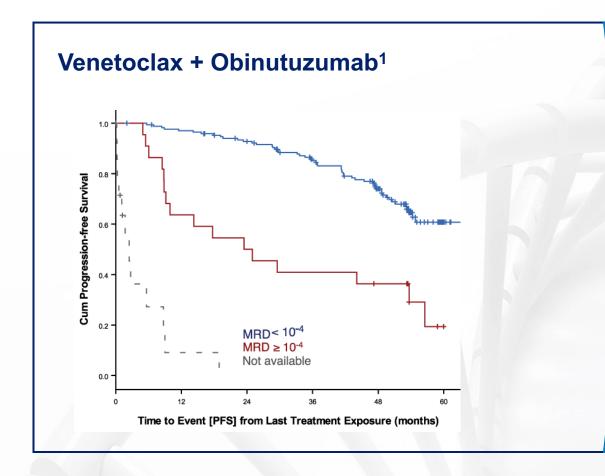
= 73.1 mo/NR in del(17p)/*TP53*m

6-year PFS = 78% / 62%

= 56% in del(17p)/TP53m

**Side effects of note:** neutropenia, thrombocytopenia, hemorrhage, arthralgias, headache, hypertension, arrhythmias, rash

## IS MRD ASSOCIATED WITH OUTCOMES IN FRONTLINE CLL TREATMENT?



**BTKi** 

**CR** is not necessary for durable disease control.

**Zanu:** CR/CRi =17.4% (14.5% in del(17p)<sup>2</sup>

uMRD not reported

**A +/- O:** CR/CRi 37% / 19%<sup>3</sup>

uMRD (only tested in patients with CR/CRi) = 13%4

## IS MRD ASSOCIATED WITH OUTCOMES IN FRONTLINE CLL TREATMENT?

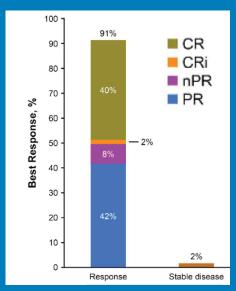
#### **BTKi**

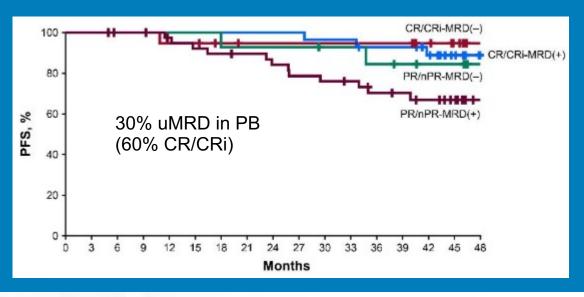
Do not frequently induce uMRD as single agents... or with anti-CD20

E1912: Ibrutinib + Rituximab1

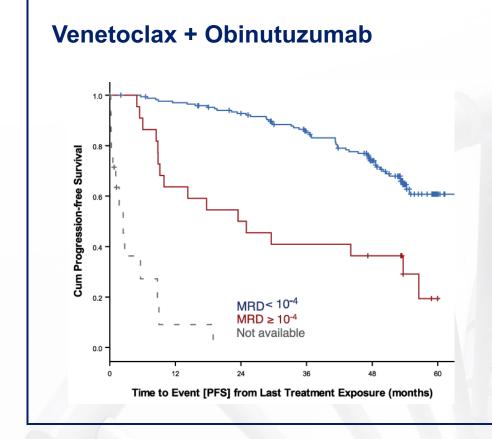
uMRD at 12 months: 8.3 % 5-year PFS = 78%

#### **iLLUMINATE**: Ibrutinib + Obinutuzumab<sup>2</sup>





## DOES MRD TESTING CHANGE MANAGEMENT AFTER FRONTLINE CLL TREATMENT?



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#### When your now-asymptomatic patient fails to achieve uMRD after treatment with VenO, do you...?

- ine when they will next A. Serially monit RD to de need treatme
- rapy since VenO didn't **Immediately** work
- Counsel patient that average PFS is still ~2 years, so the plan is for active surveillance with (re)treatment upon meeting iwCLL criteria again

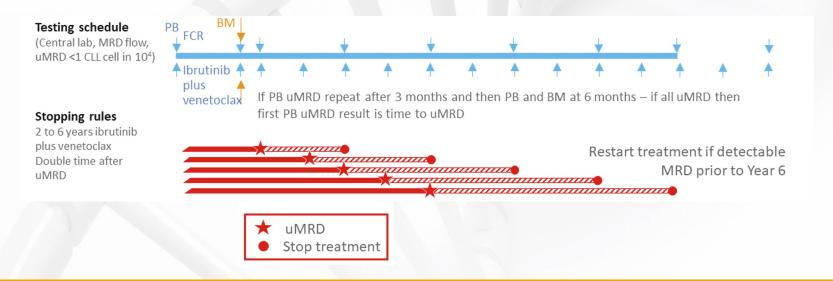
#### WHAT ABOUT OTHER FIXED-DURATION REGIMENS IN FRONTLINE CLL?

• FCR?

SUGGESTED TREATMENT REGIMENS<sup>a,b,c,d</sup> CLL/SLL Without del(17p)/*TP53* Mutation (alphabetical by category)

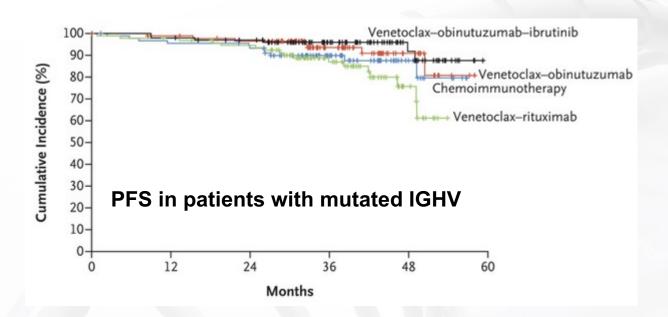
#### FIRST-LINE THERAPY<sup>®</sup> **Useful in Certain Circumstances** Preferred Regimens Other Recommended Regimens • Ibrutinib <sup>f,g,i,\*</sup> (category 1) • Ibrutinib<sup>f,g,\*</sup> + obinutuzumab (category Acalabrutinib<sup>f,g,\*</sup> ± obinutuzumab Consider for IGHV-mutated CLL in patients aged <65 v (category 1) • Venetoclax<sup>f,h</sup> + obinutuzumab without significant comorbidities ▶ FCR (fludarabine, cyclophosphamide, rituximab)<sup>K,I</sup> Ibrutinib<sup>f,g,\*</sup> + rituximab<sup>j</sup> (category 2B) Ibrutinib<sup>f,g,\*</sup> + venetoclax<sup>f,h</sup> (category 2B) (category 1) Consider when BTKi and venetoclax are not available • Zanubrutinib<sup>f,g,\*</sup> (category 1) or contraindicated or rapid disease debulking needed ▶ Bendamustine<sup>m</sup> + anti-CD20 mAb<sup>n,o</sup> ▶ Obinutuzumab ± chlorambucil<sup>p</sup> ► High-dose methylprednisolone (HDMP) + anti-CD20 mAb<sup>n</sup> (category 2B; category 3 for patients <65 y without significant comorbidities)

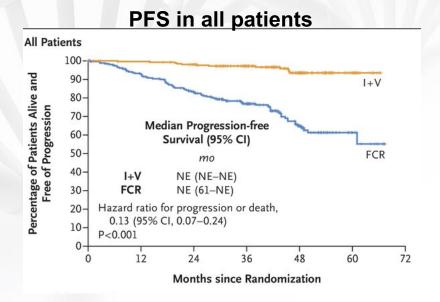
# FLAIR: I+VenO vs. VenO vs. VenR vs. BR/FCR



#### WHAT ABOUT OTHER FIXED-DURATION REGIMENS IN FRONTLINE CLL?

FLAIR: I+V vs. VenO vs. VenR vs. BR/FCR

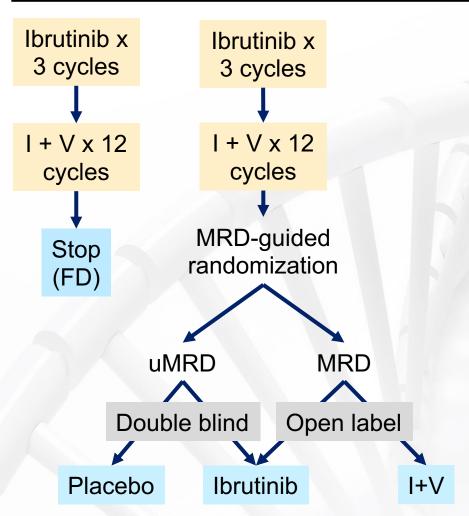




MRD-directed I+VenO showed similar PFS to VenO, regardless of subtype

#### WHAT ABOUT NOVEL FIXED-DURATION REGIMENS IN FRONTLINE CLL?

#### **CAPTIVATE:** phase 2, I+V fixed vs MRD-guided



- In FD arm, uMRD associated with better PFS
- In MRD-guided arms, MRD status could help determine best treatment strategy
- Until BTKi + Ven approved as frontline approach, this strategy is not applicable in routine clinical management

#### **CONCLUSIONS**

- MRD testing does not guide routine clinical management in frontline CLL treatment... yet.
- uMRD is not an important clinical endpoint with continuous frontline cBTKi therapy.
- Achieving uMRD after fixed-duration VenO therapy is prognostic... but does not currently inform changes in management.
- MRD testing is an essential component of ongoing and future trials in CLL:
  - Clarify relationship between clinical response and end-of-treatment MRD status in a treatmentspecific context
  - Examine uMRD as a potential surrogate endpoint
  - Identify candidates for MRD-driven changes in treatment duration or switches in therapy

#### Current Experience with Measurable Residual Disease (MRD) in CLL



Prognostic for PFS and time to next treatment with some fixed-duration regimens PFS correlated with U-MRD Rate:
CLL14 (VO vs CO)
CAPTIVATE (IV -> IV VS I)
CLL13 (CIT --> VR vs VO vs VOI)
MURANO (VR vs BR)
TRANSCEND (CAR-T)

PFS Benefit Irrespective of U-MRD:
GLOW (IV vs CO)
ELEVATE-TN (A vs AO vs CO)
E1912 (IR vs FCR)

Currently, no evidence that MRD-guided approach should be used outside of clinical trials

