



Con il patrocinio di



Ordine dei Medici Chirurghi e degli Odontoiatri di Piacenza



IMMUNOTERAPIA E FARMACI BIOLOGICI NEL TRATTAMENTO DEI LINFOMI E LLC: ATTUALITÀ E FUTURO

RESPONSABILI SCIENTIFICI:
Annalisa Arcari, Daniele Vallisa

LA TERAPIA DELLA LLC IN PRIMA LINEA

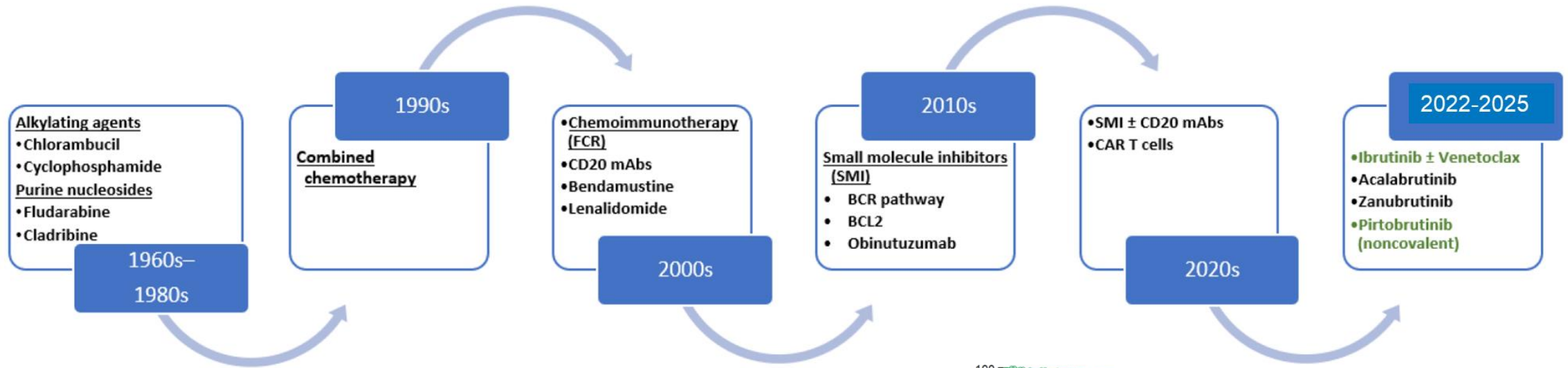
Anna Maria Frustaci
ASST GOM Niguarda

03/10/2025

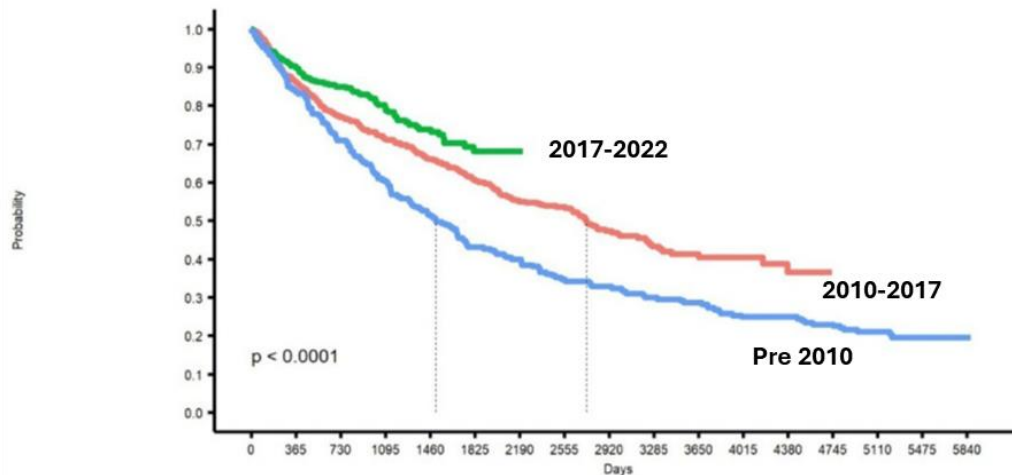
Disclosures

Company name	Research support	Employee	Consultant	Stockholder	Speakers bureau	Advisory board	Conferences sponsorship
Janssen			X			X	X
Beigene			X			X	X
Abbvie						X	X
AstraZeneca						X	X

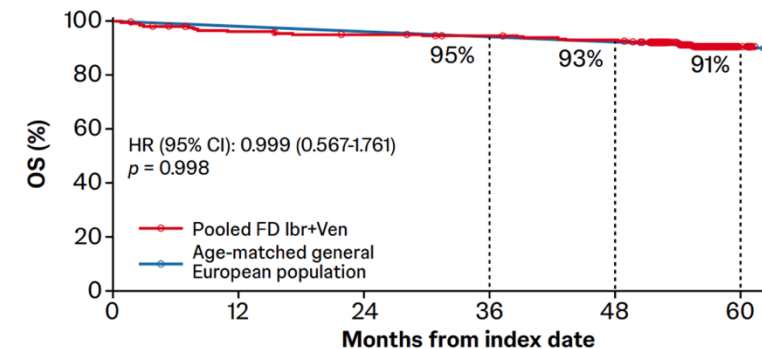
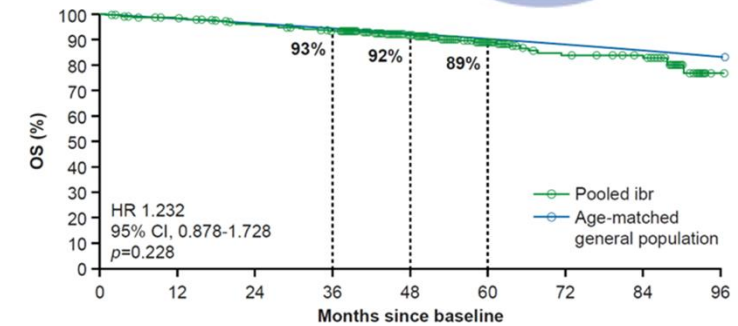
The successful history of CLL



According to treatment period

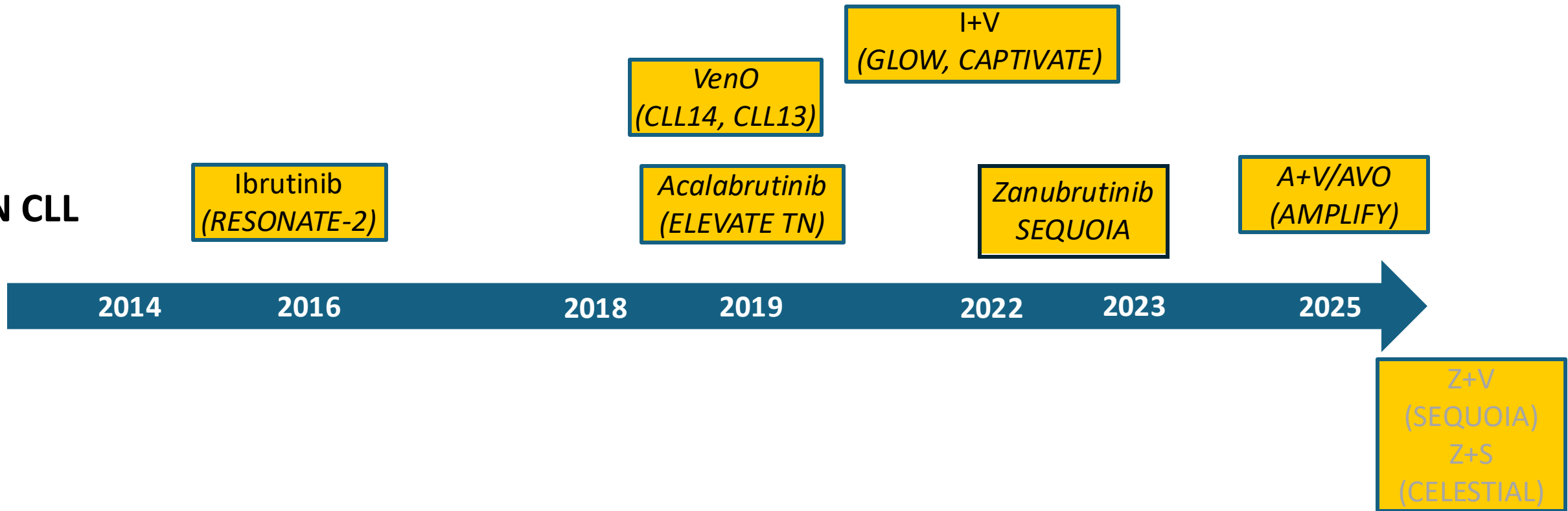


Tadmor, Hemasphere 2023



Chemo-free world: key protocols with targeted agents

TN CLL



Current treatment scenario in first line

Continuous cBTKi

 *RESONATE 2*

  *ALLIANCE*

ECOG1912

Ibrutinib

  *ELEVATE TN*

Acalabrutinib

 *SEQUOIA*

 *SEQUOIA ARM C*

Zanubrutinib

Fixed- duration

**Venetoclax
+
Obinutuzumab**

CLL13
CLL14  

**Venetoclax
+
Ibrutinib**

CAPTIVATE 
GLOW 


17p-

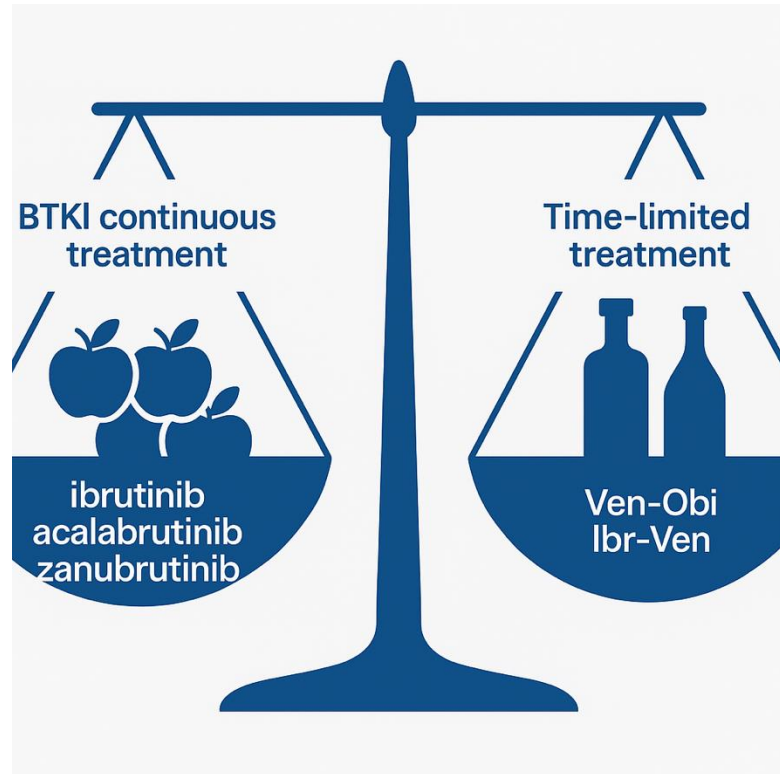

Elderly

Current treatment scenario in first line (efficacy)

Minimum common follow up for targeted agents in 1° line trials

	Population	Study drug(s)	Progression-free at ~4 y
RESONATE 2	Elderly/unfit	ibrutinib	70% (5 y)
ALLIANCE	Elderly/fit	Ibrutinib	76%
ECOG1912	Young/fit	IR	78% (5 y)
FLAIR	Young/fit	IR	86%
ELEVATE TN	Elderly/unfit	acalabrutinib	78%
SEQUOIA (arm A)	Elderly/fit	zanubrutinib	82%
SEQUOIA (arm C, 17p)	Any	zanubrutinib	79%
CLL14	Elderly/unfit	VO	74%
CLL13	Young/fit	VO	82%
GLOW	Elderly/unfit	I+V	75%
CAPTIVATE (FD cohort)	Young/fit	I+V	79%

Available CLL first-line therapy options in 2025 and drivers of choice



Disease biology	▪ TP53 aberrations ▪ IgHV status ▪ (CK)
Patient' characteristics	▪ Age/fitness ▪ Cardiocomorbidity ▪ Renal comorbidity ▪ History of major bleeding ▪ Concomitant medications ▪ Cognitive status ▪ Caregiver/social support
Disease clinical characteristics	▪ Disease burden (TLS risk) ▪ Cytopenia ▪ Need of rapid disease control

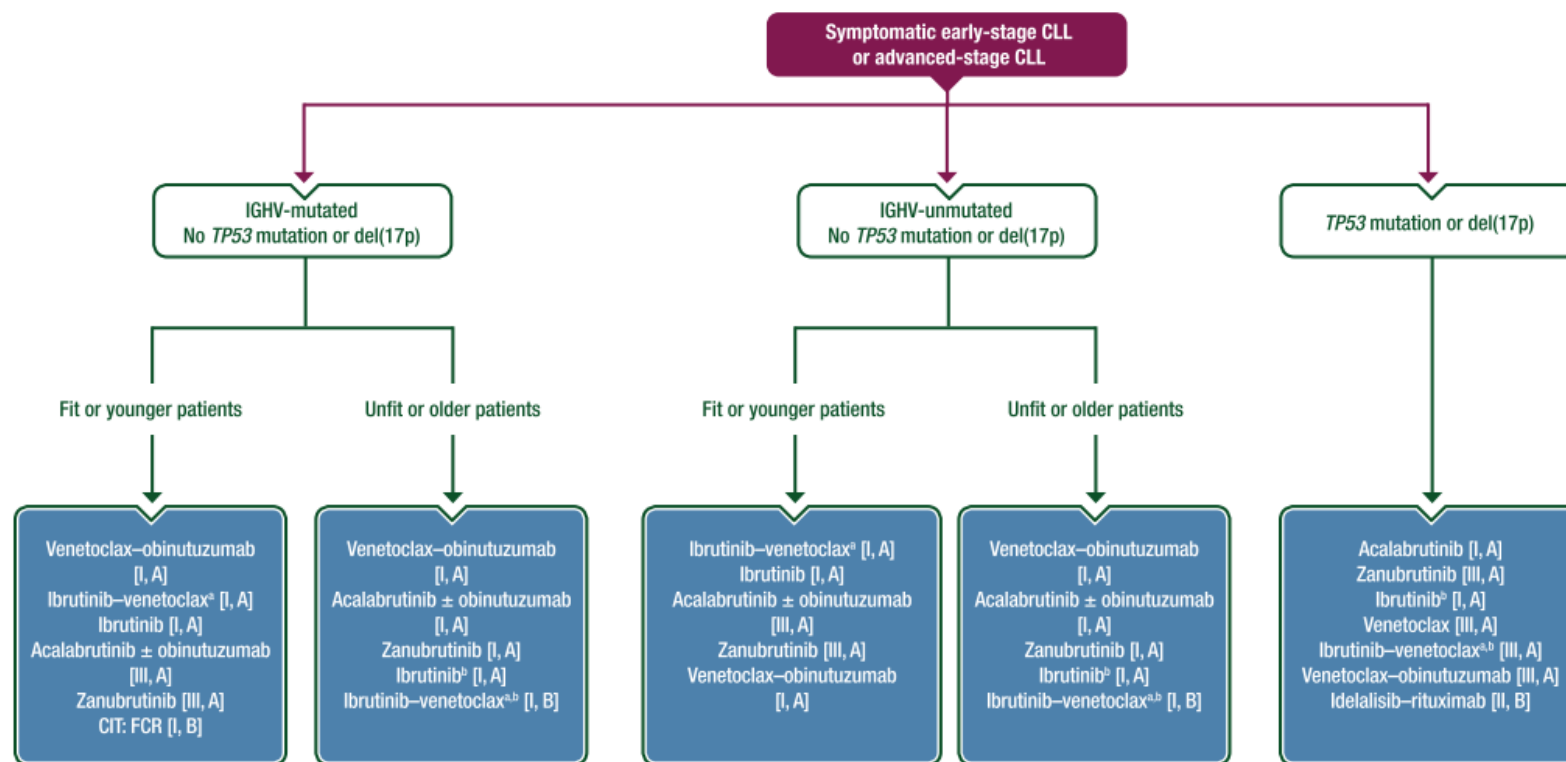
Optimal first line treatment – Balance of tolerability and efficacy

	treatment preference for genetic subgroups based on efficacy and tolerability			treatment-related logistics		adverse events, comorbidities and comedication					
	mIGHV	uIGHV	17p- / TP53 mut	finite duration and treatment-free interval	convenient initiation of therapy	accumulation of adverse events	bleeding risk	TLS risk	cardiovascular events	reduced renal function	infection risk during treatment
ibrutinib											
acalabrutinib											
zanubrutinib											
obinutuzumab + acalabrutinib											
obinutuzumab + venetoclax											
ibrutinib + venetoclax											

Color code rating for treatment options:

pro  con

ESMO guidelines: first line treatment



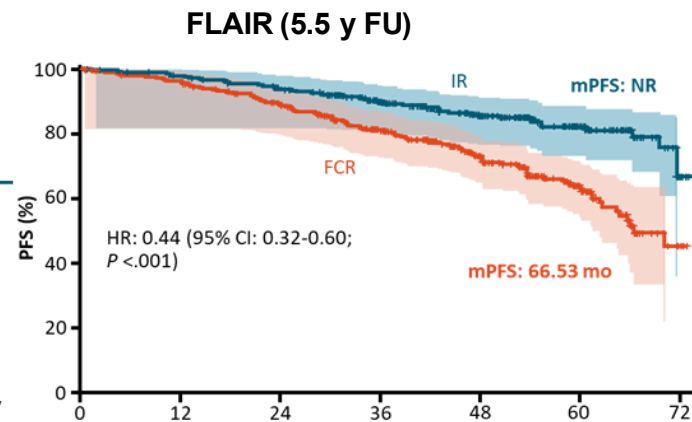
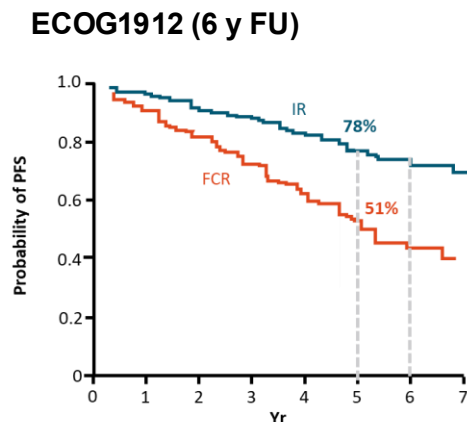
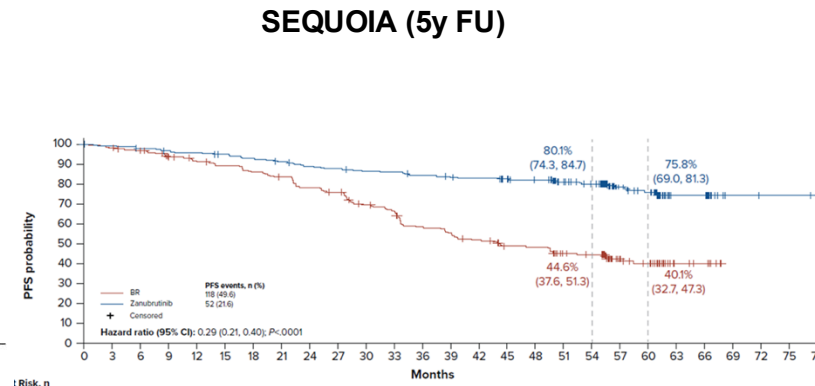
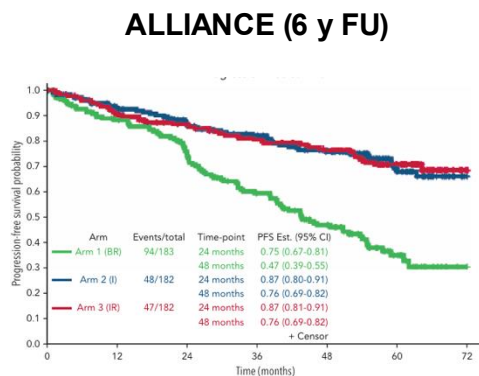
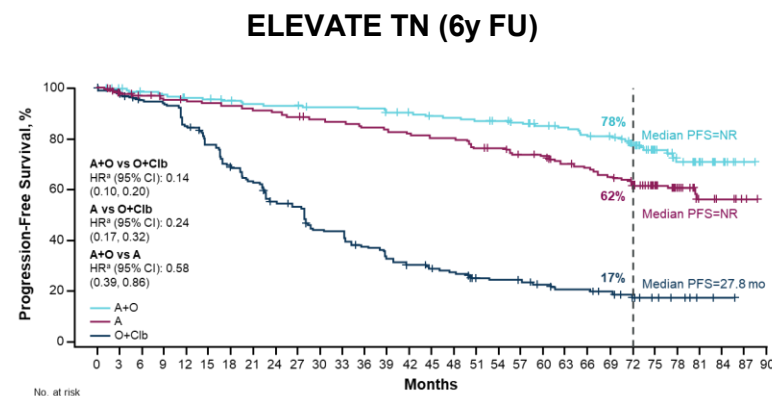
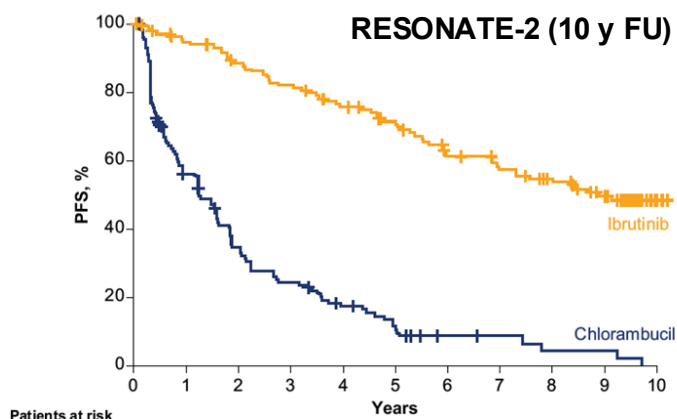
How the scenario is moving

FD increasingly preferred in young/fit, NO *TP53*

→ will the advent of A+V (or Z+Ven or Sonro) make *all* patients eligible for FD?

Continuous BTKi in TN CLL: current data

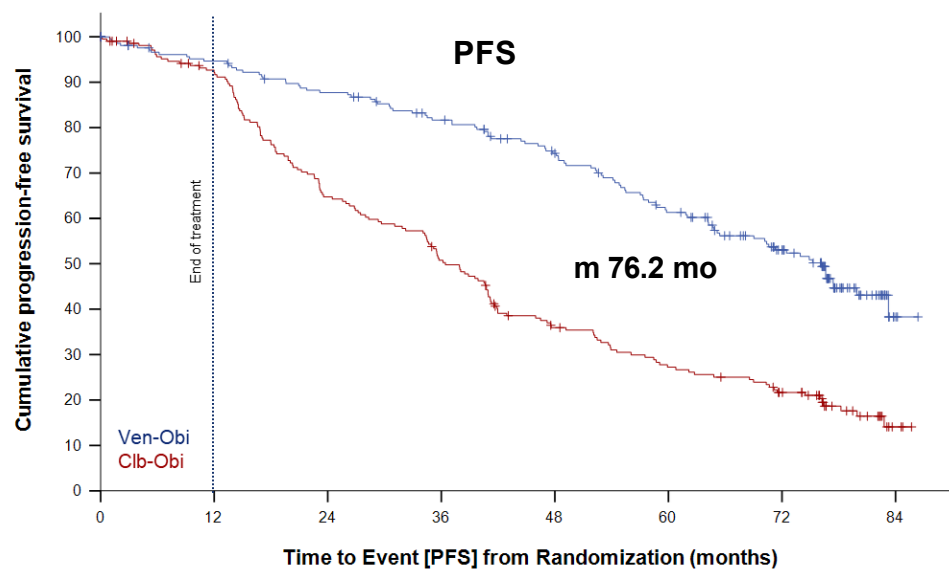
- BTKi are superior to CIT for PFS and OS in both young/fit and elderly/unfit patients



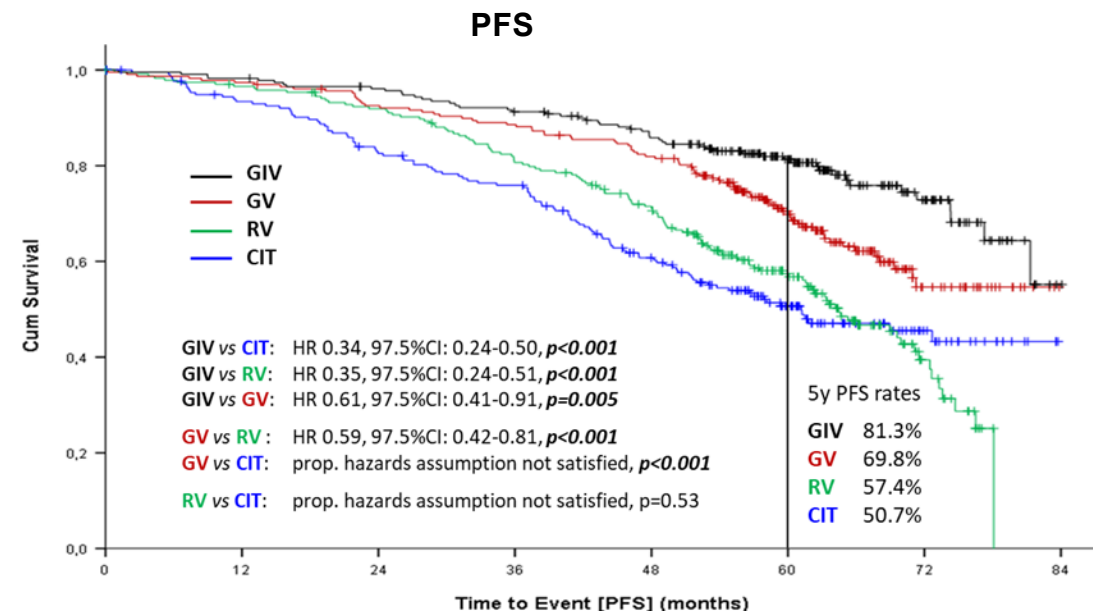
Fixed-duration VO in TN CLL: current data

- Time-limited VO is superior to CIT and leads to prolonged PFS in both young/fit and elderly/unfit

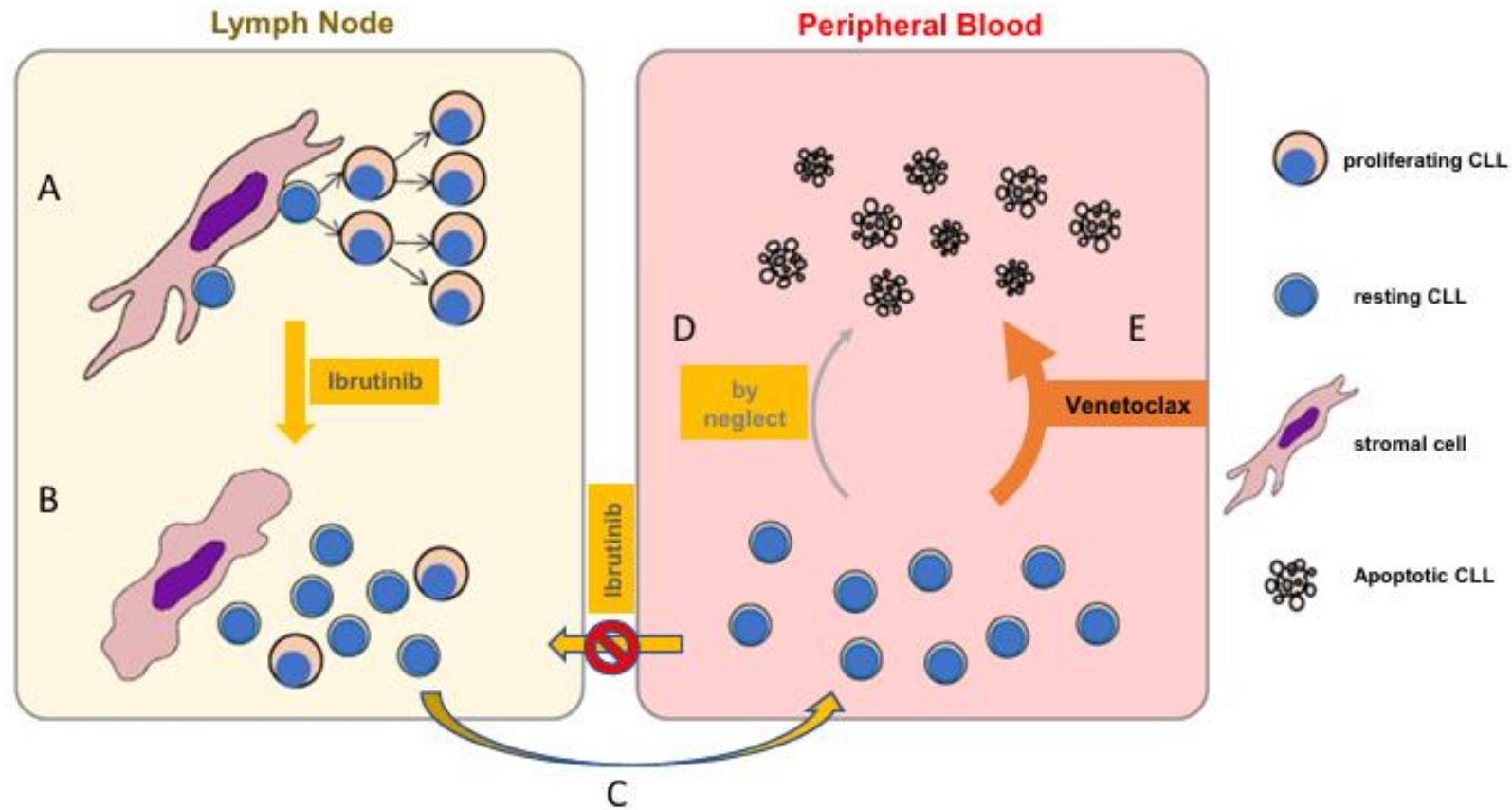
CLL14 (6 y FU)



CLL13 (5 y FU)



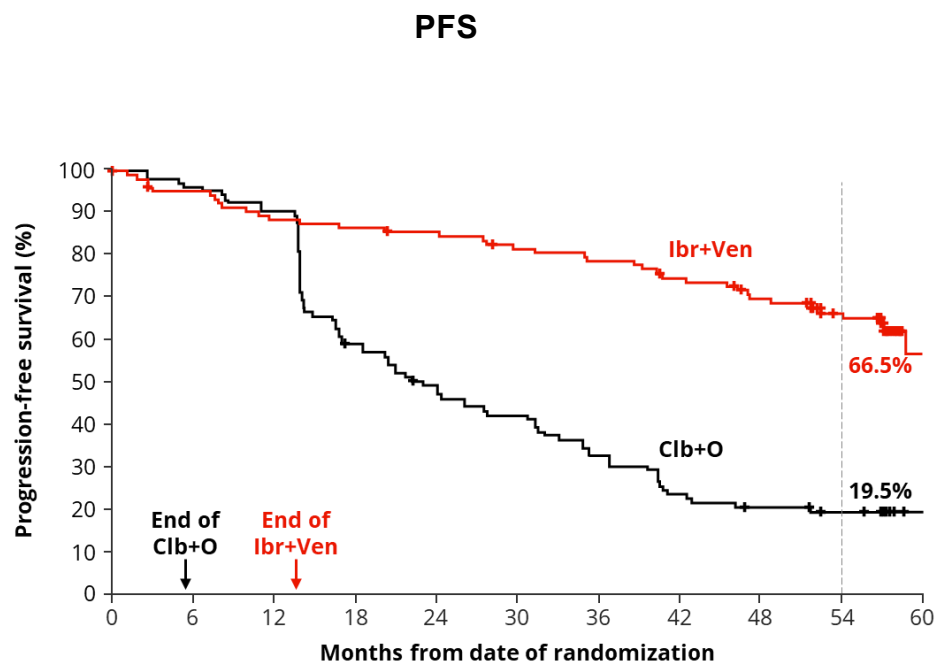
The additional value of combining ibrutinib + venetoclax



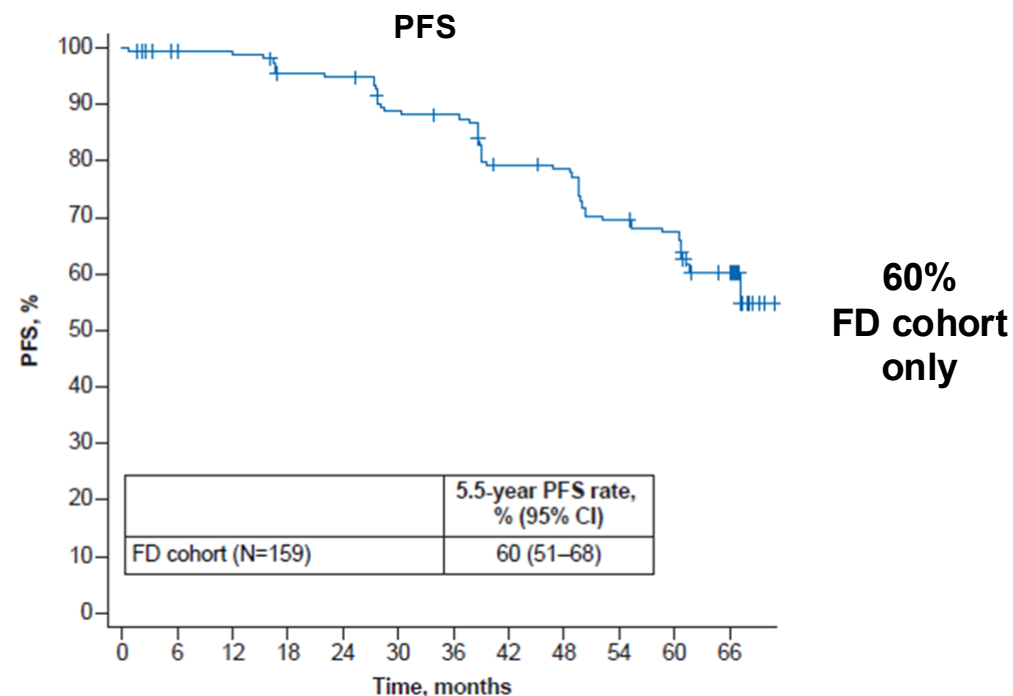
Fixed-duration I+V in TN CLL: current data

- Time-limited I+V is superior to CIT and leads to prolonged PFS in both young/fit and elderly/unfit

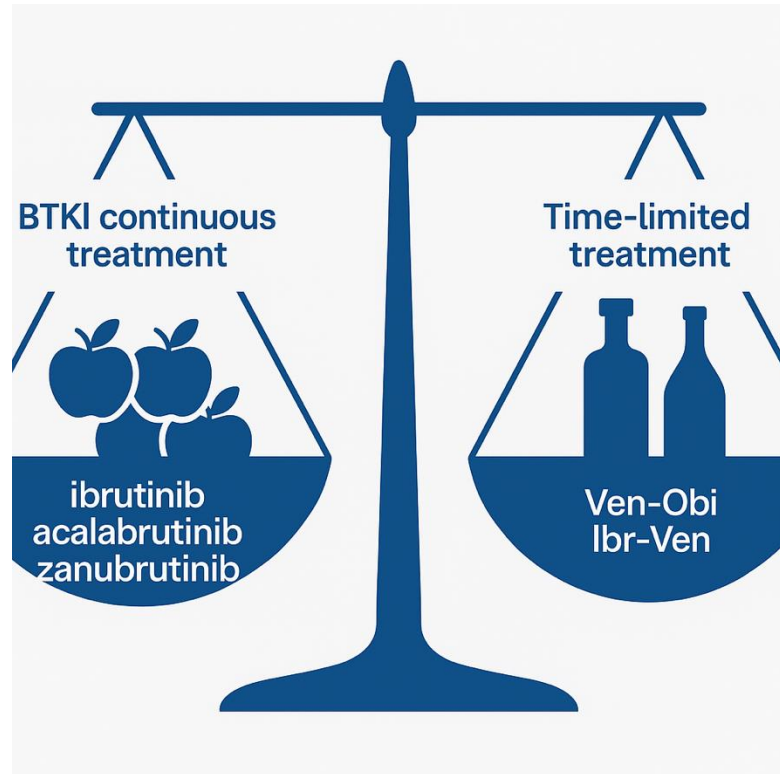
GLOW (5 y FU)



CAPTIVATE (5.5 y FU)

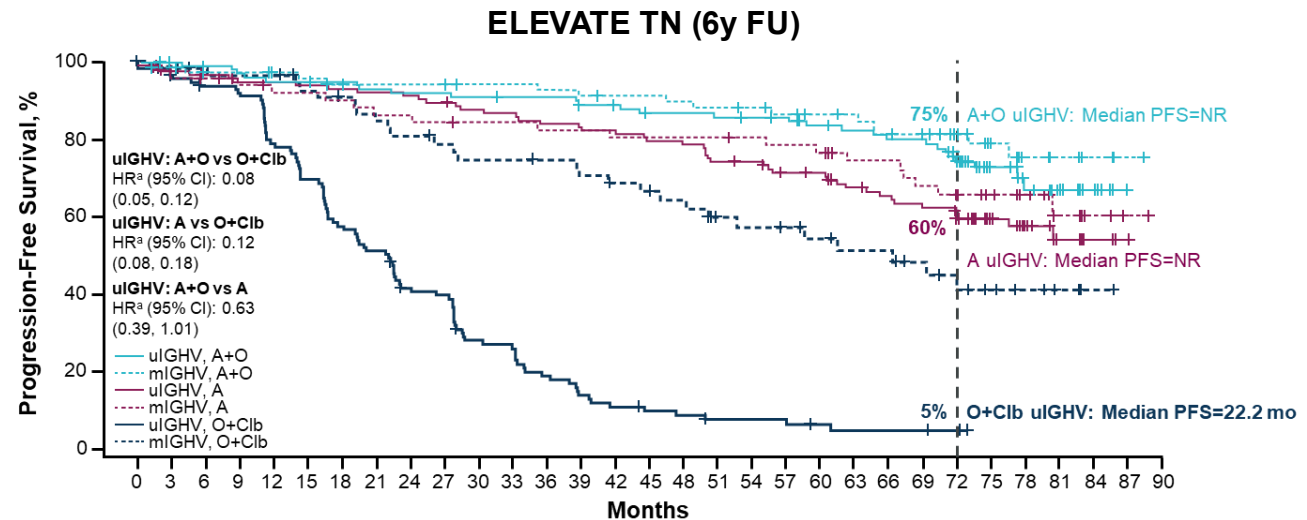
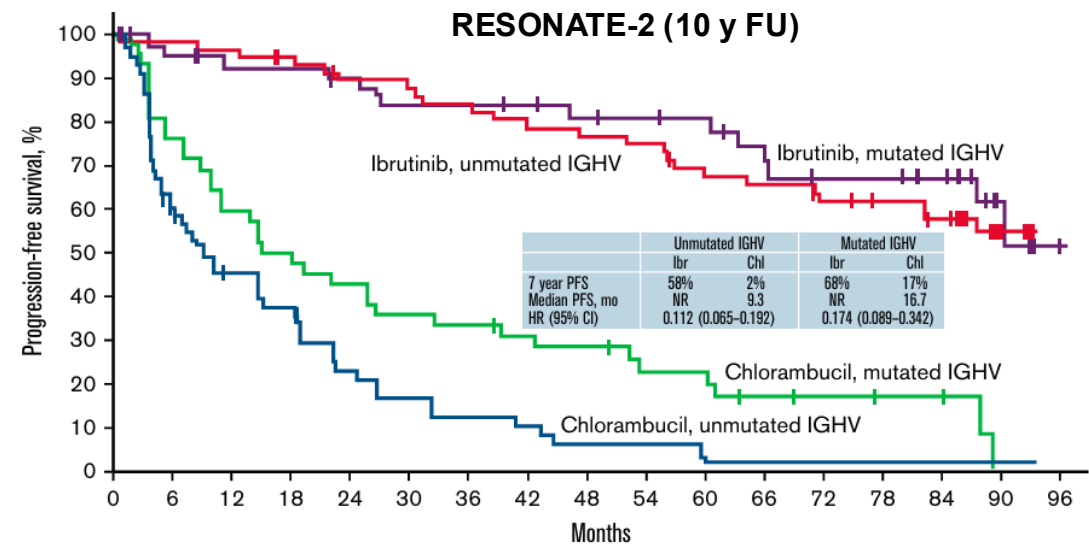


Available CLL first-line therapy options in 2025 and drivers of choice

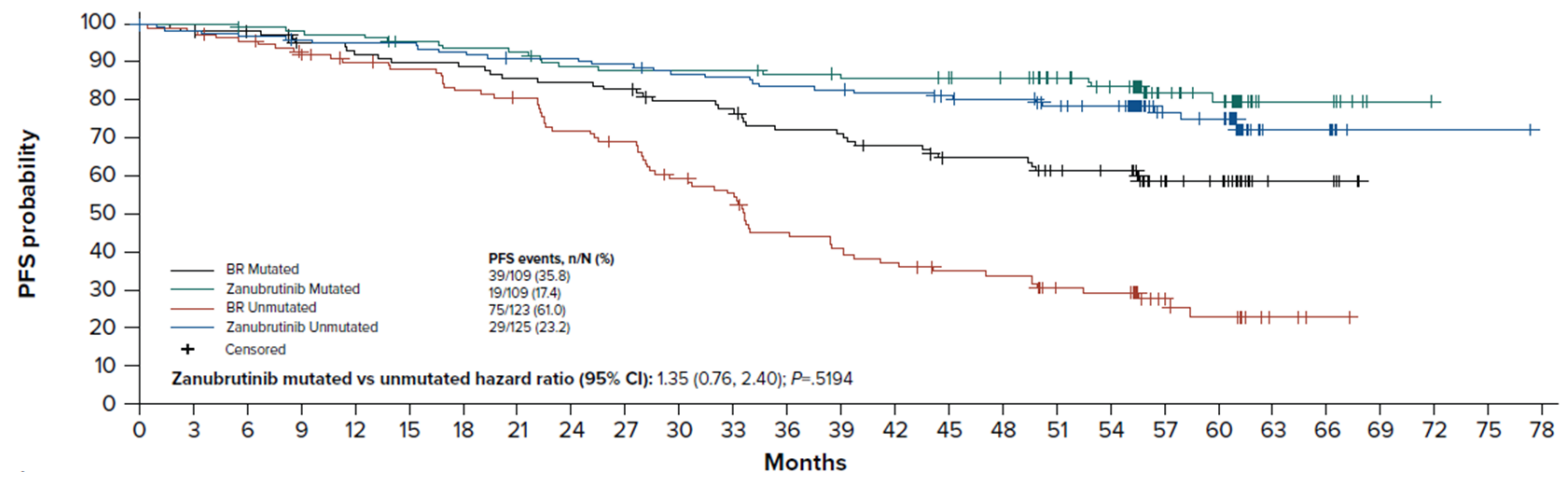


Disease biology	▪ TP53 aberrations ▪ IgHV status ▪ (CK)
Patient' characteristics	▪ Age/fitness ▪ Cardiocomorbidity ▪ Renal comorbidity ▪ History of major bleeding ▪ Concomitant medications ▪ Cognitive status ▪ Caregiver/social support
Disease clinical characteristics	▪ Disease burden (TLS risk) ▪ Cytopenia ▪ Need of rapid disease control

Continous BTKi in TN CLL: IgHV mutational status

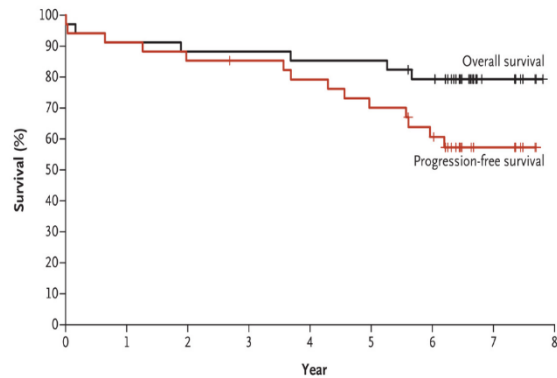


SEQUOIA (5y FU)

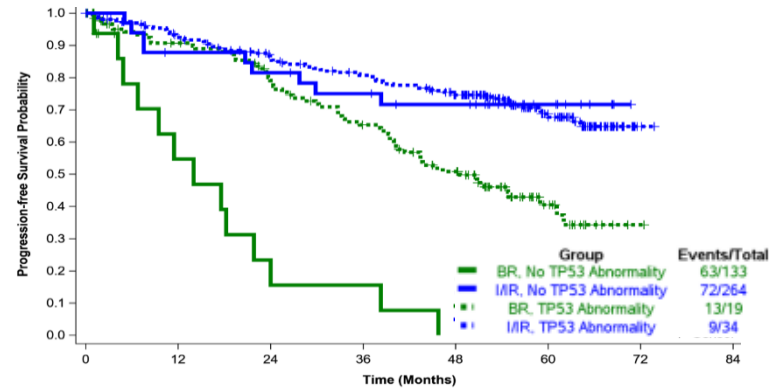


Continuous BTKi in TN CLL:TP53 aberrations and CK

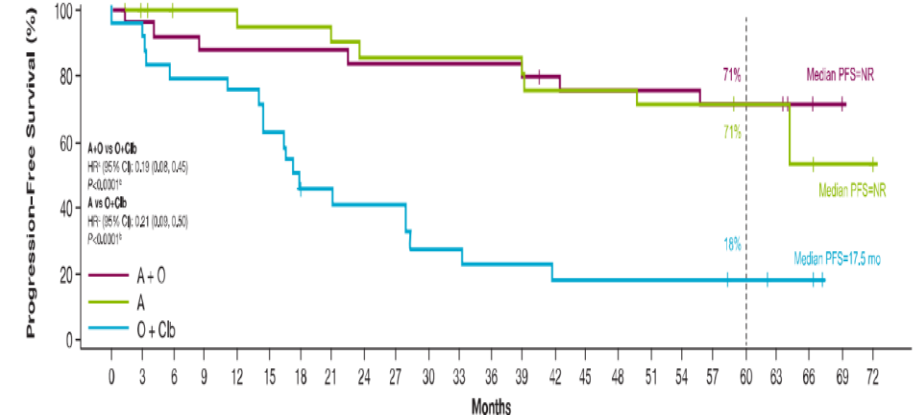
**Phase II trial:
Ibrutinib monotherapy¹**
Median FU: 6.5 years



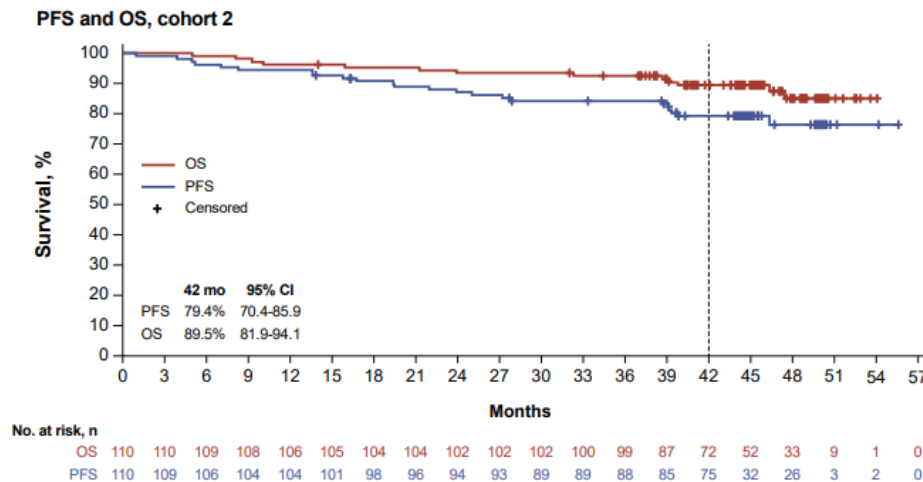
**ALLIANCE:
Ibrutinib vs. IR vs. BR²**
Median FU: 55 months



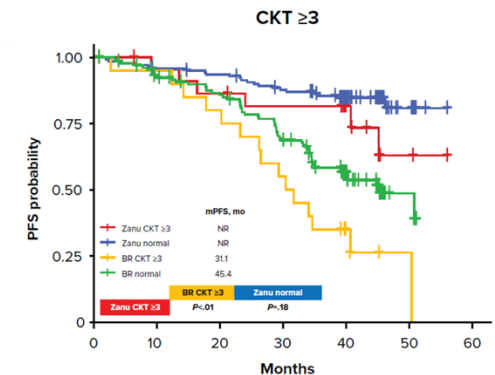
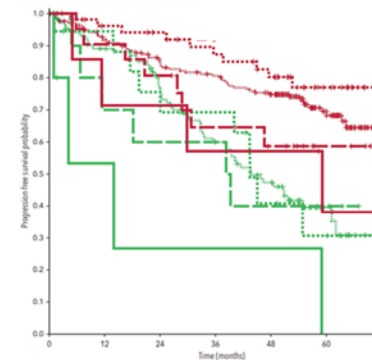
**ELEVATE TN:
Acalabrutinib vs. AO vs. O + Clb³**
Median FU: 58.2 months



SEQUOIA ARM C
Median FU: 47.9 months
110 pts ➡

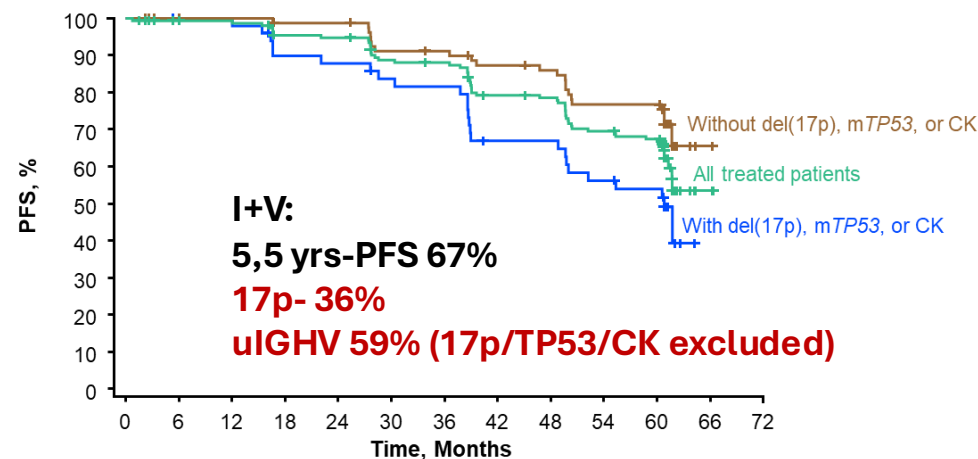


**ALLIANCE (6y FU)
Complex Karyotype**

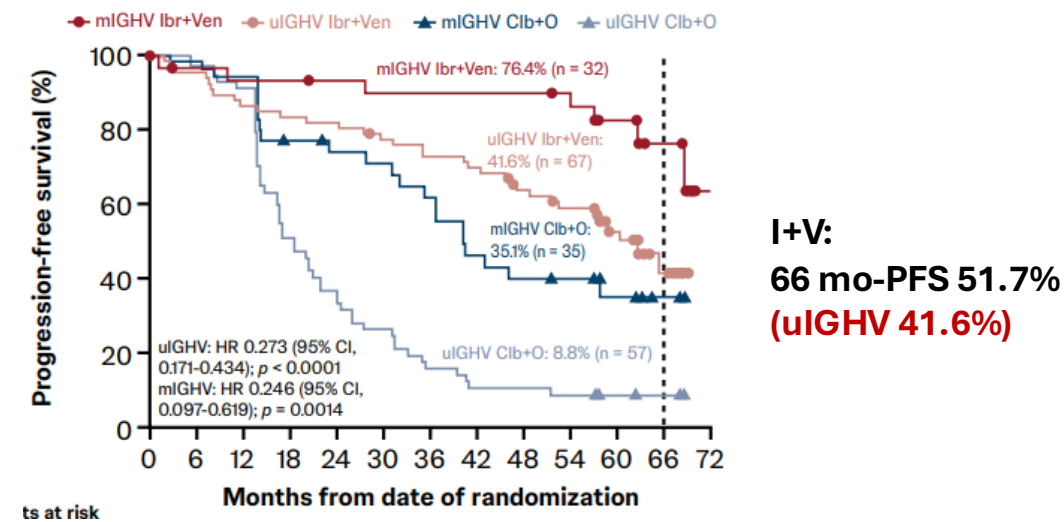


Has FD same efficacy than continous cBTKi in high risk CLL?

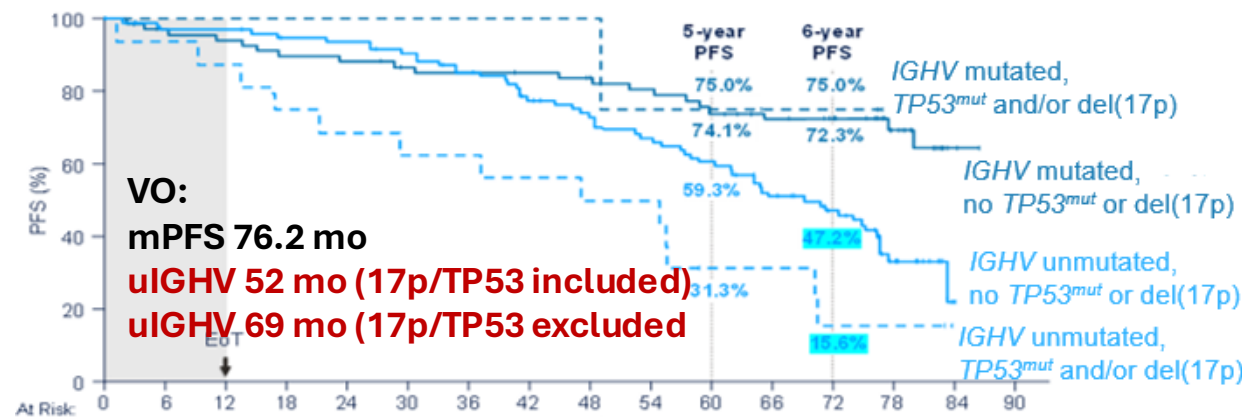
CAPTIVATE (5.5 y FU)



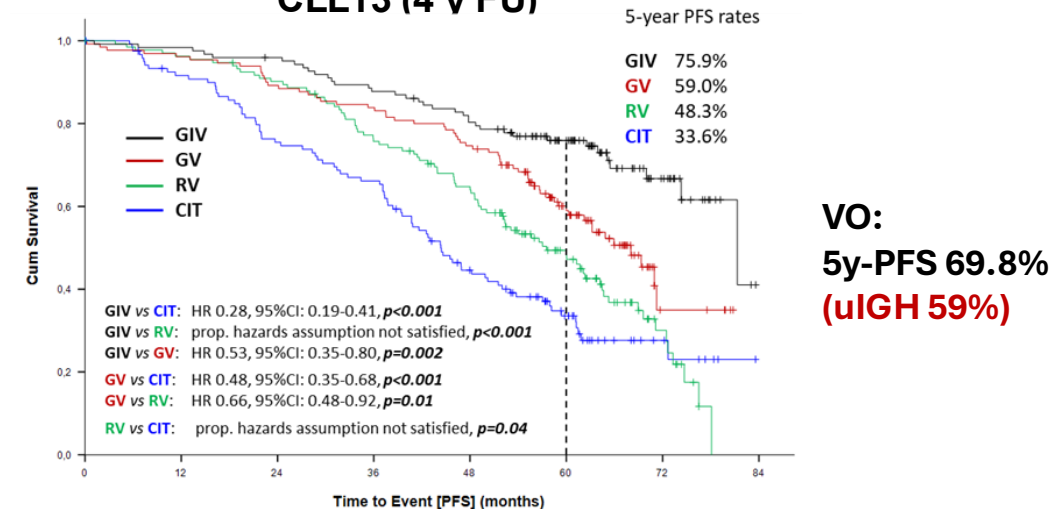
GLOW (5.5 y FU)



CLL14 (6 y FU)



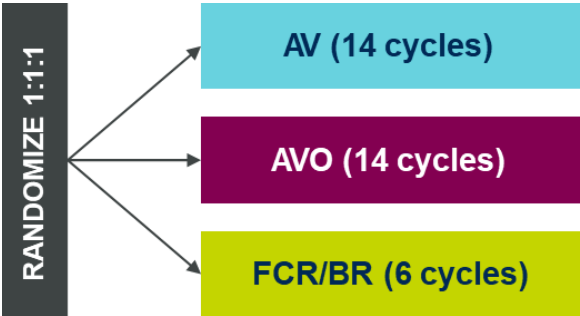
CLL13 (4 v FU)



Fixed-duration in TN CLL: A+V (mFU 40.8 mo)

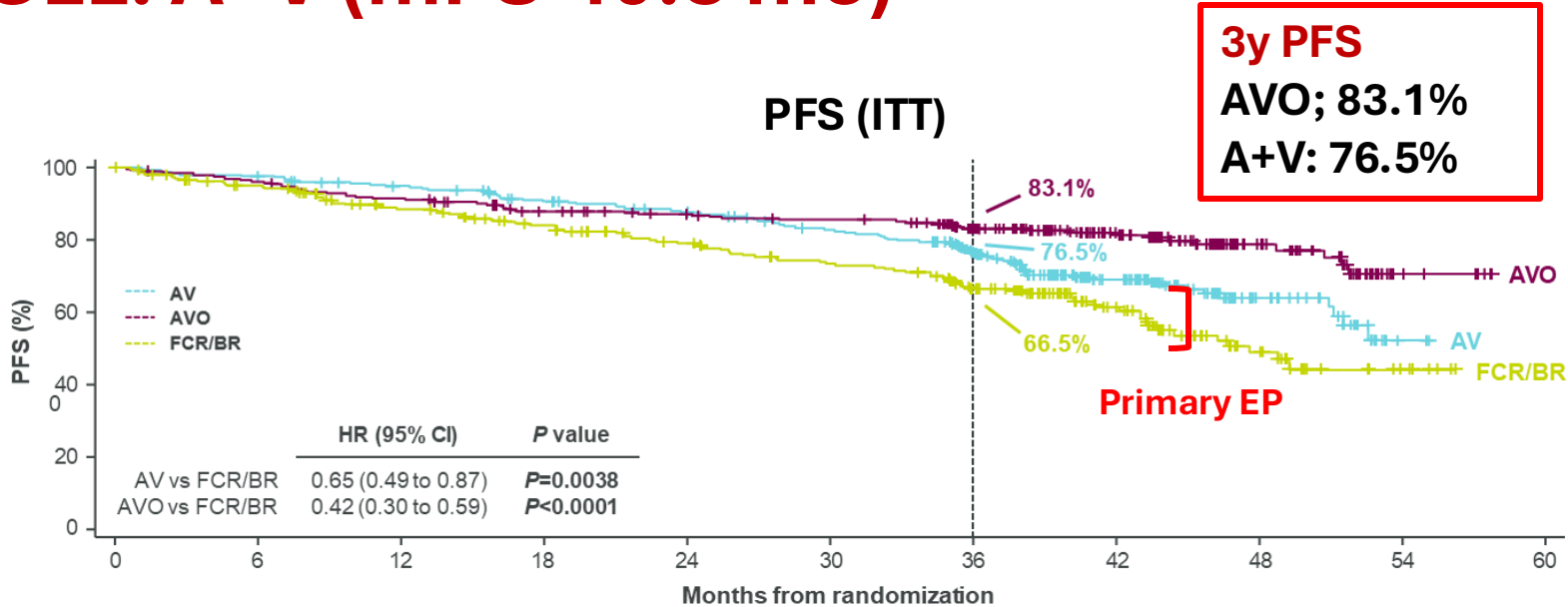
Key inclusion:

- NO 17p/*TP53*
- CIRS <6



Primary EP: PFS AV vs CIT

Secondary EP:
PFS AVO vs CIT
uMRD AV and AVO vs CIT
OS AV and AVO vs CIT



3y PFS uIGHV:
AVO: 83%
A+V: 69%

3y PFS mIGHV:
AVO: 83%
A+V: 86%

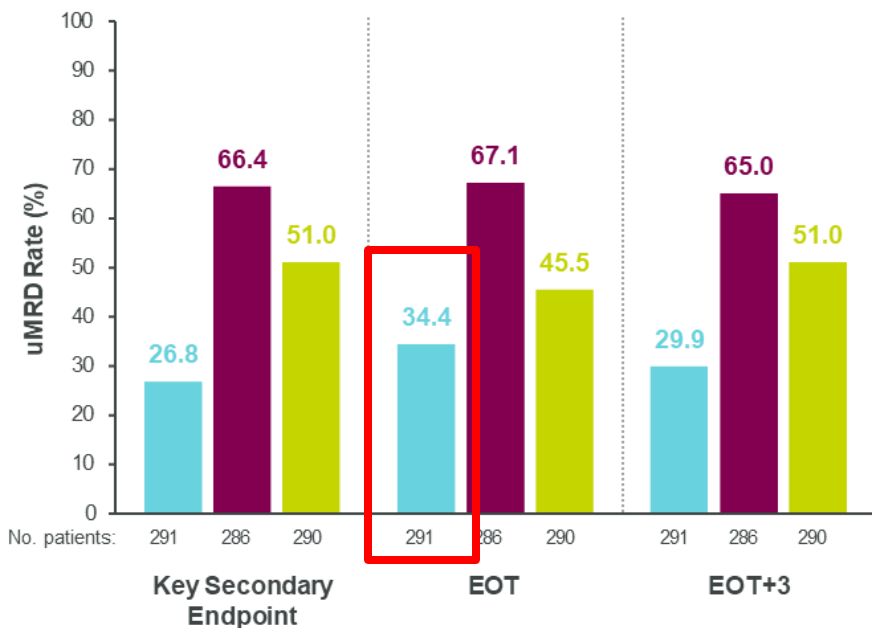
Censoring COVID deaths: 3y PFS AVO 91.5%; A+V 78.8%

Fixed-duration in TN CLL: A+V (mFU 40.8 mo)

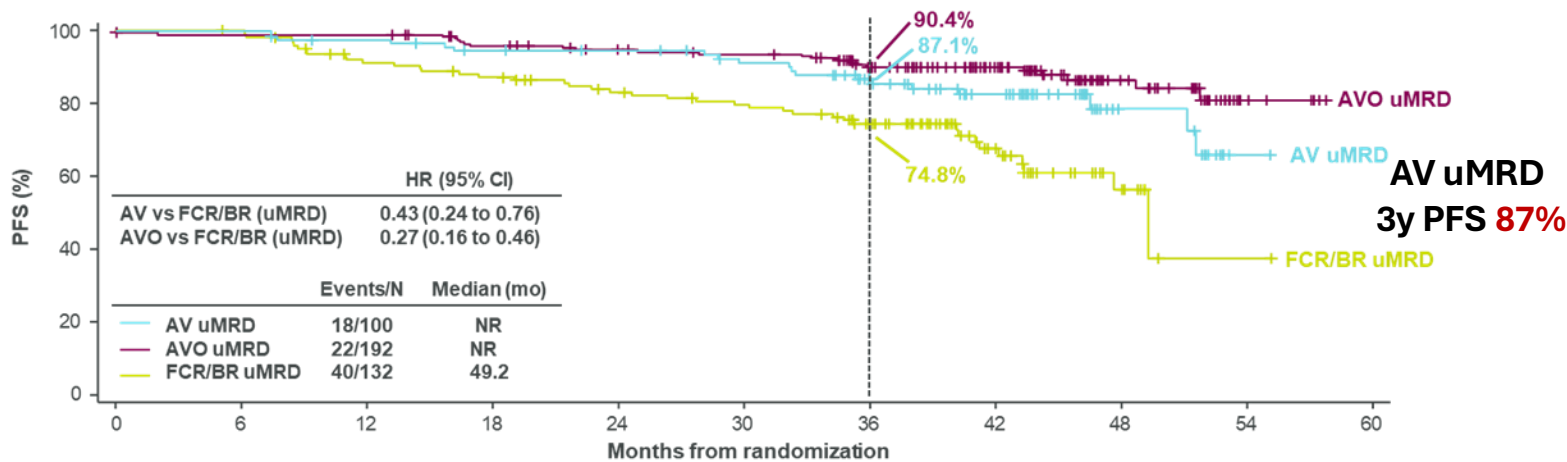
Key inclusion:

- NO 17p/*TP53*
- CIRS <6

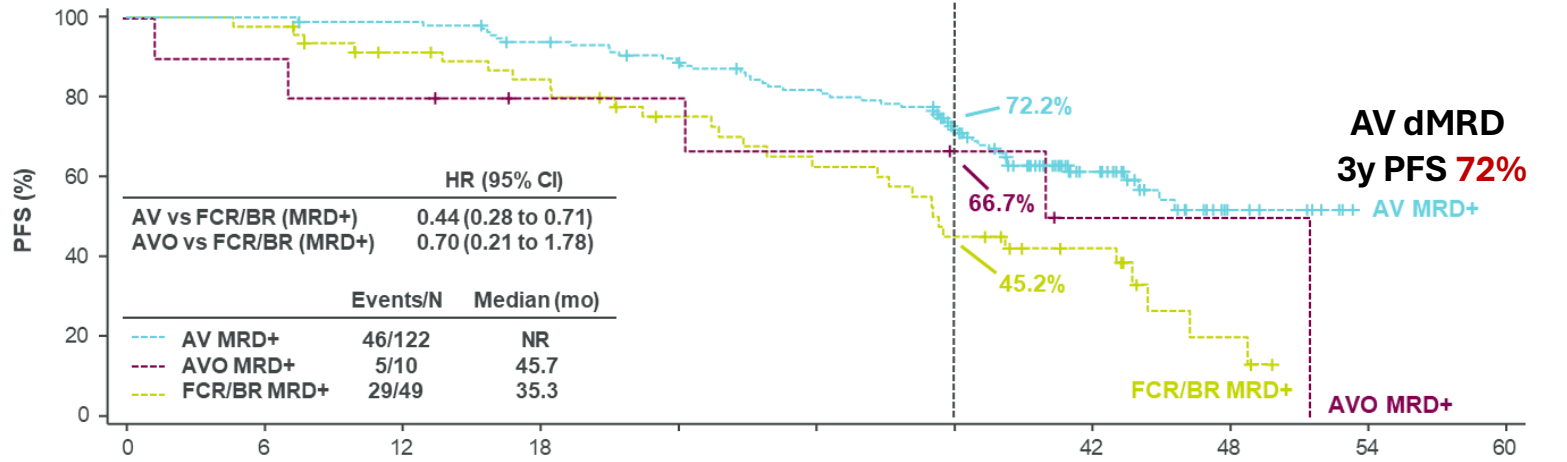
ITT Population*



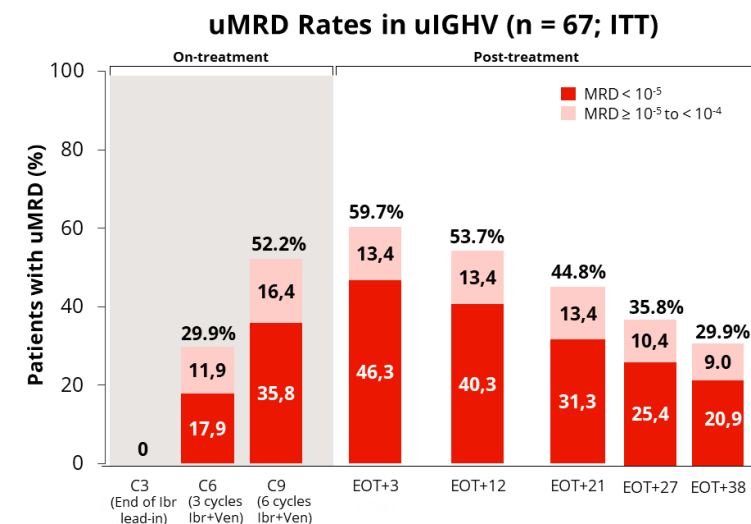
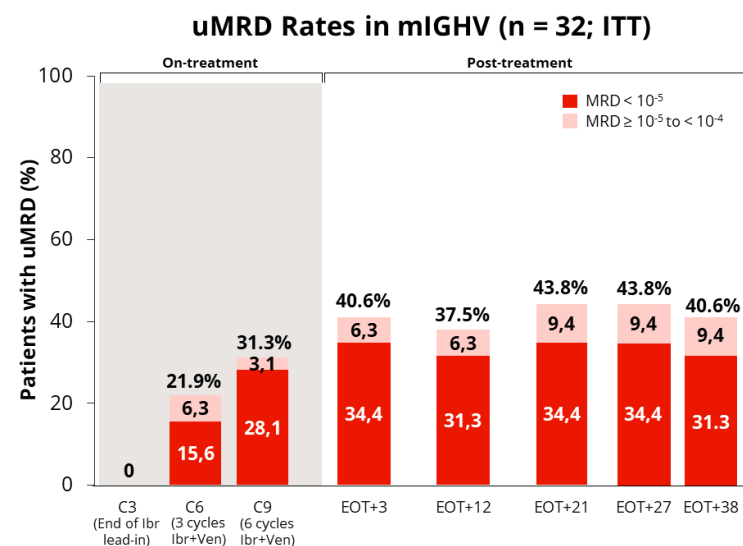
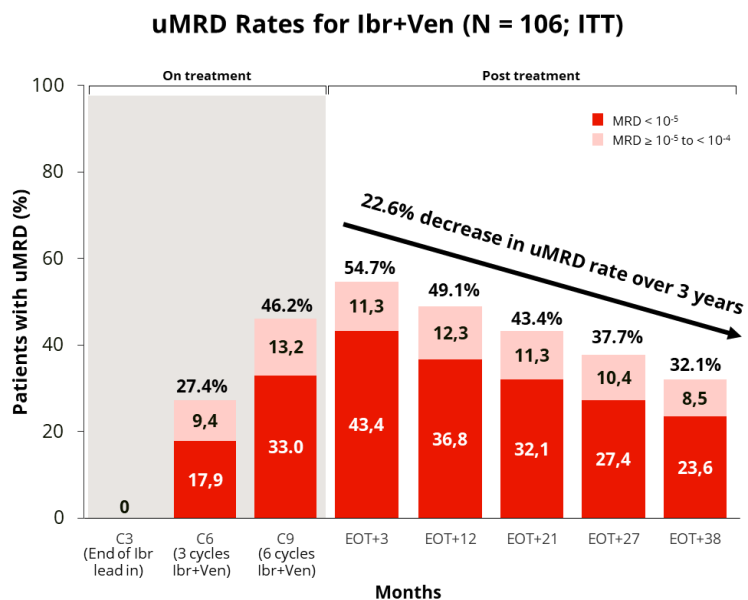
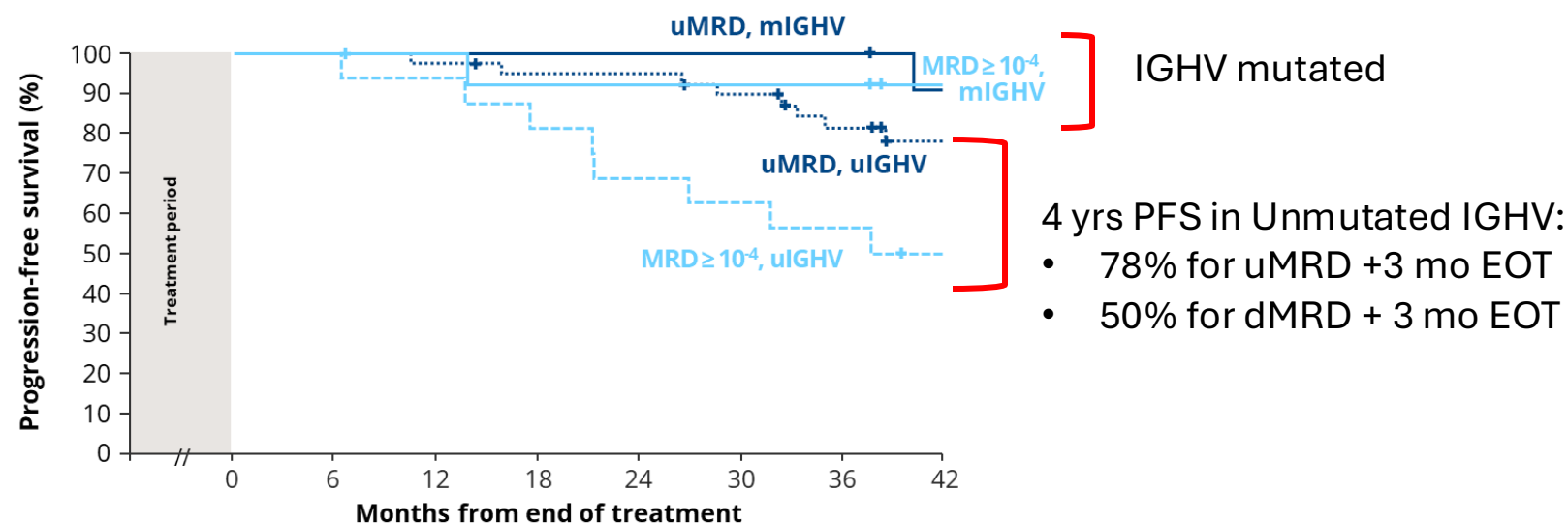
PFS in uMRD (<10⁻⁴)



PFS in dMRD (>10⁻⁴)

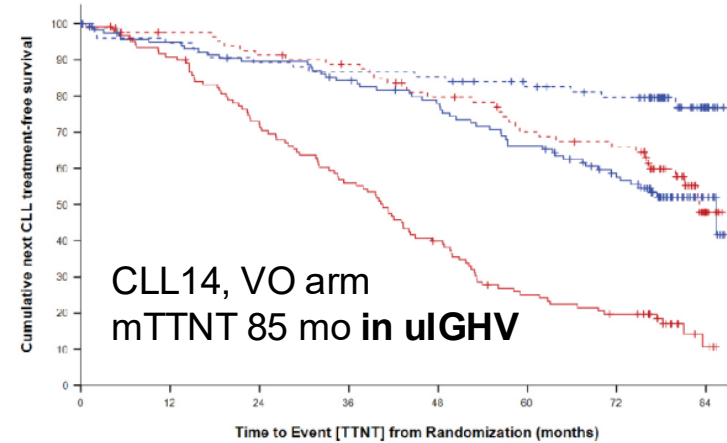
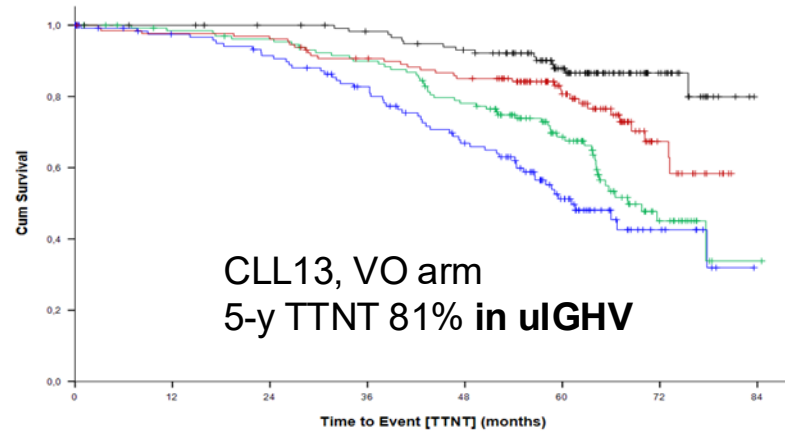


MRD kinetic with I+V according to IGHV status

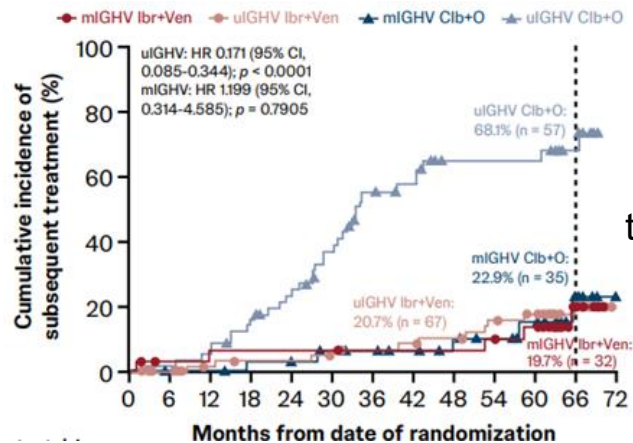


Should we look at TTNT more than PFS in FD?

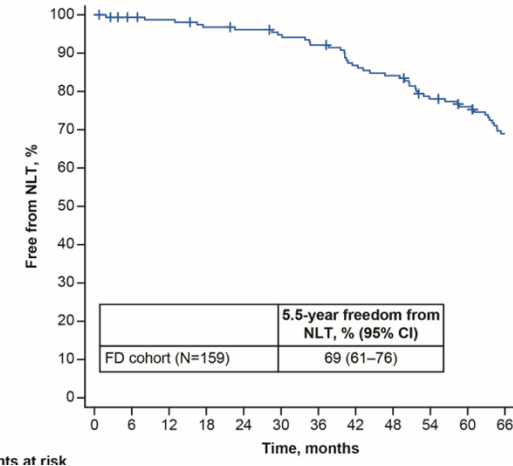
Venetoclax Obinutuzumab: TTNT



Venetoclax Ibrutinib: TTNT

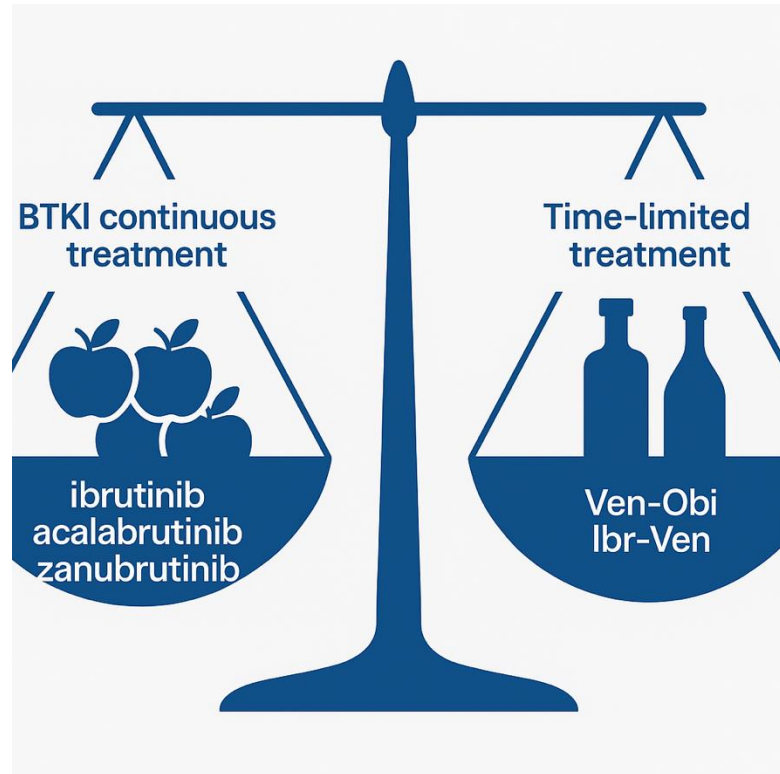


GLOW
66 mo 21% re-treated in uIGHV



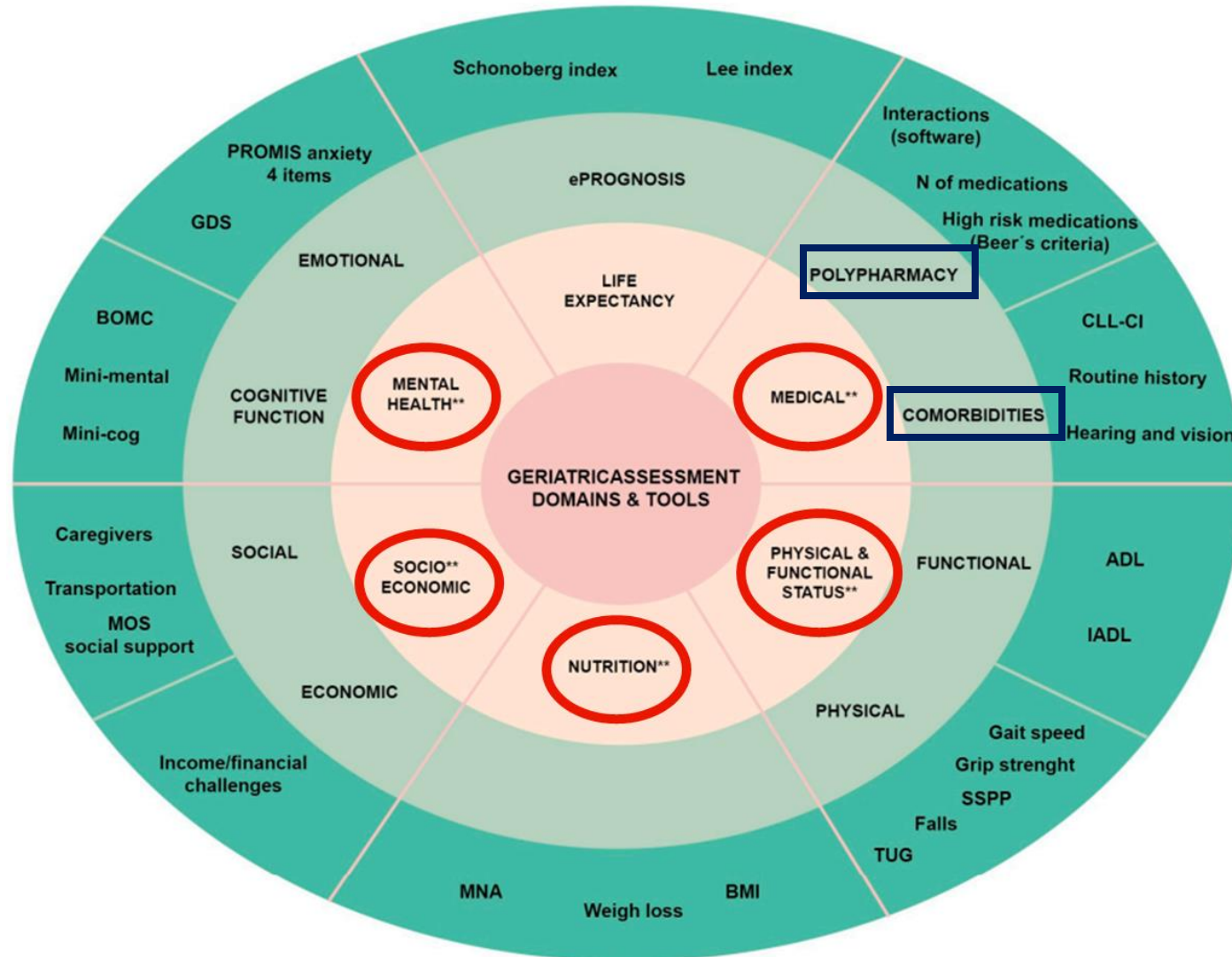
CAPTIVATE
5.5 yrs TTNT 69%
(FD cohort only)

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How to assess fitness in CLL patients on



Any of the geriatric syndromes may impact on:

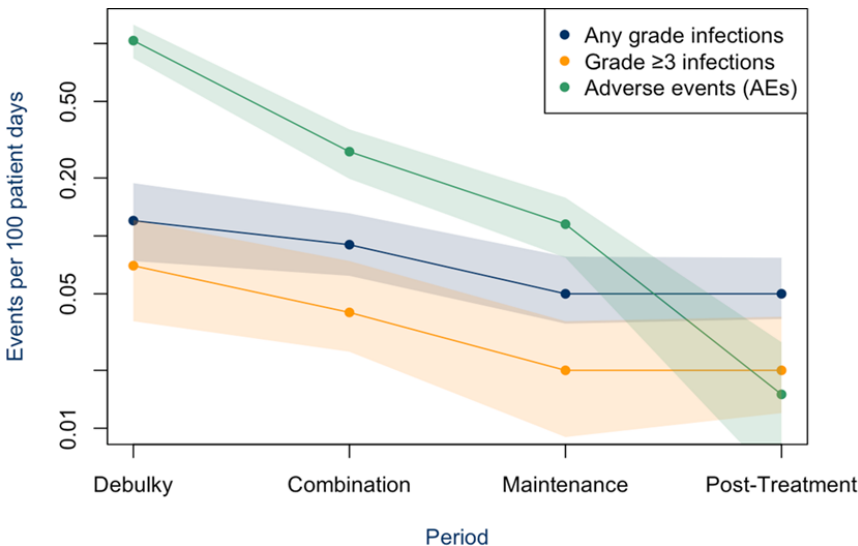
- Adherence
- Tratments accessibility
- Hospitalizations
- Adverse events
- Treatment intensity

GA may instead:

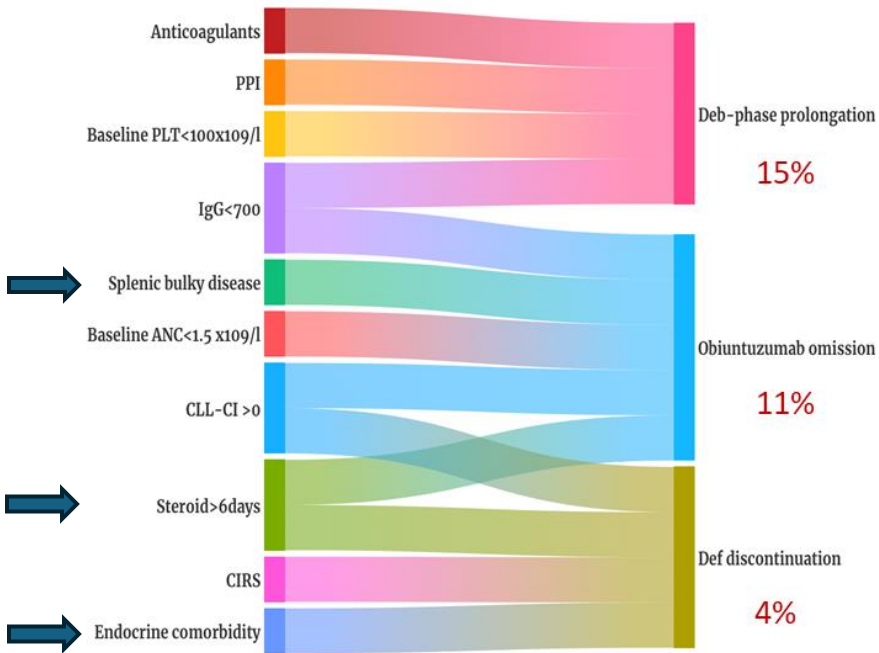
- Address/exclude specific treatments
- Guide early interventions
- Tailor treatment intensity

Multicentric italian experience on VO in clinical practice

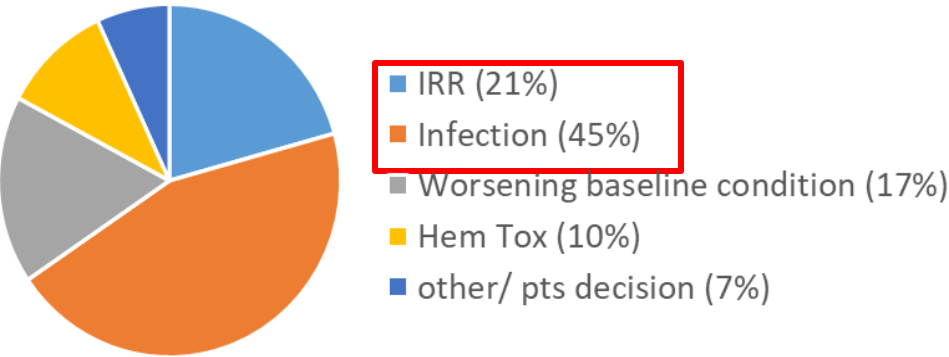
Infections and G≥3 Aes at different tx phases



Treatment modifications on debulky phase



Reasons for Tox-DTD



Multivariate analysis

Baseline factor	OR(95%CI)	p
Tox-DTD		
Need of caregiver	3.1 (1.2 - 8.5)	0.03
Endocrine Comorb	3.3 (1.3 - 7.9)	0.007
Steroid>6days	3.4 (1.5 - 7.5)	0.005

Impact of age/fitness on RCT with targeted agents (~ 4yrs FU)

	ECOG1912	RESONATE-2	ALLIANCE
Median age	58	70	71
Tox-related discontinuation at ~4 yrs	22%	21%	18%

	SEQUOIA	ELEVATE TN
Median age	70	70
Tox-related discontinuation at ~4 yrs	14%	12%

	CLL13	CLL14
Median age	62	72
Tox-related discontinuation at ~4 yrs	6%	16%

	CAPTIVATE	GLOW
Median age	60	71
Tox-related discontinuation at ~4 yrs	5%	14%



Tachy-brady syndrome, cardiac failure, pneumonia	Ibrutinib lead-in (1)	Tachy-brady syndrome very likely related, cardiac failure and pneumonia probably related	80 years old, male, CIRS score 12, ECOG PS 1, Denmark. - History of atrial fibrillation, ischemic heart disease, non-ST segment elevation myocardial infarction (2016), myocardial infarction due to pneumonia (2017, 2018), epilepsy, chronic obstructive pulmonary disease, prostate cancer, transient ischemic attack. - Cerebral bleeding on D15, tachy-brady syndrome and serious infection on D51, pneumonia on D70.
Sudden death	Ibrutinib lead-in (3)	Not related	63 years old, male, CIRS score 10, ECOG PS 1, Poland. - History of hypertension, hypercholesterolemia. - Cardiac arrest on D85 after 3 cycles of ibrutinib but before first dose of venetoclax. - Date of death: D89.
Sudden death	Ibrutinib-venetoclax combination (8)	Not related	73 years old, male, CIRS score 11, ECOG PS 2, Russia. - History of hypertension, diabetes mellitus, glaucoma cataract, L-eye
Sudden death	Ibrutinib-venetoclax combination (8)	Not related	79 years old, male, CIRS score 4, ECOG PS 2, Russia. - History of atrial fibrillation, duodenal ulcer - Fatigue a few days before sudden death at home. No autopsy available. - Date of death: D239.

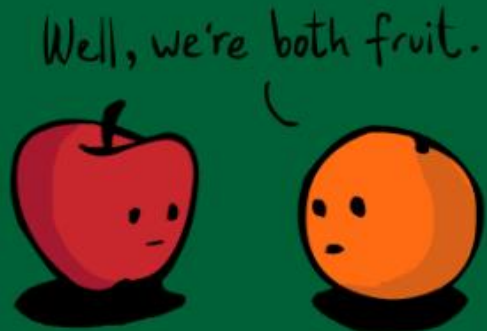
Barr Blood Adv 2022; Wojach Blood 2023; Shanafelt Blood 2023;Shadman ICML 2023 ;
Allan ASH 2022; Kater EHA 2021

Are we moving to a fixed-duration for every patient?

Most clinicians would choose FD therapy if all these conditions were met:

- 1) It should be **safe** *at least as much* as continuous therapy
- 2) It should be **effective** *at least as much* as continuous therapy
- 3) It should be **easy to manage** (both from patients and clinicians' pov)

CAPTIVATE vs AMPLIFY



Ph 2 vs Ph 3

159 vs 291 pts

No COVID vs COVID period

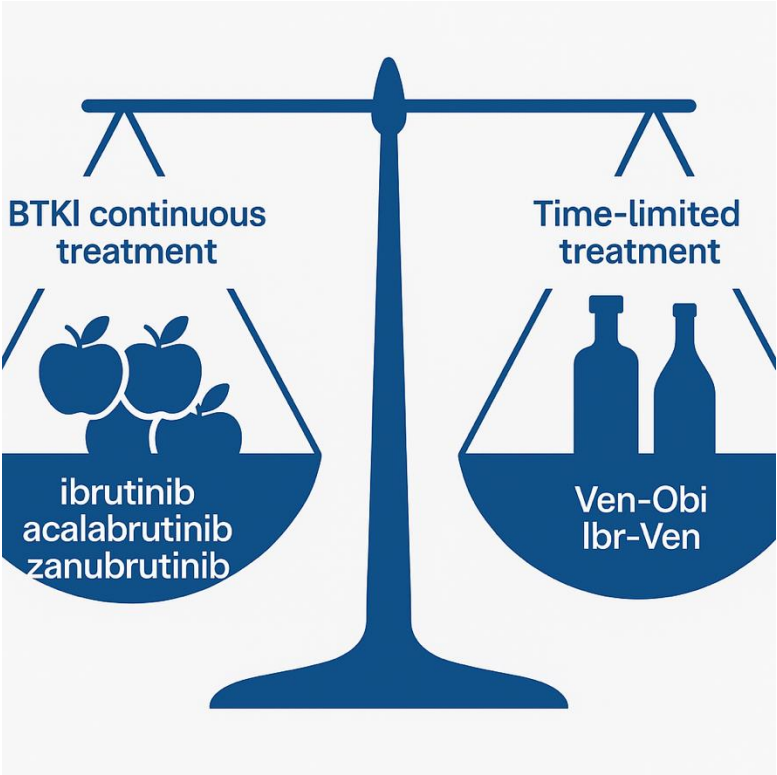
At the same time...

*CAN'T safety data from GLOW (elderly, basically unselected),
with younger and fit population from AMPLIFY*

We could do something like this only when having from AMPLIFY updates on:

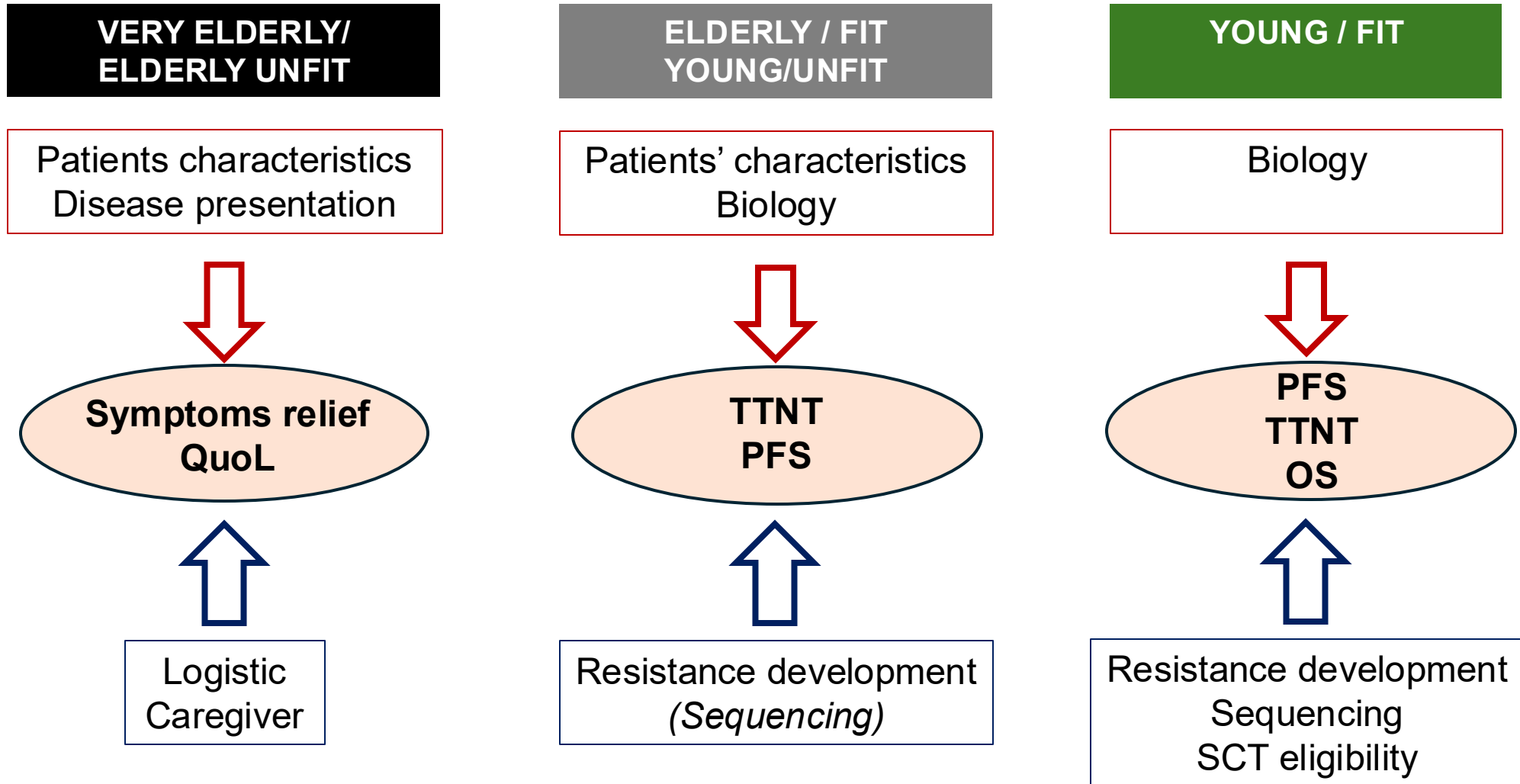
- Safety from the elderly group
 - Data on TTNT
 - Data on dose intensity

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Independently of fitness, age matters in treatment decisions (*what is treatment goal?*)



Speaker's personal view

Acknowledgement

Chronic lymphoproliferative disorders program ASST GOM Niguarda

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Bianca Granelli
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Clinical Trial Unit

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