

CLL Conference

Bologna November 14-15 2022

Royal Hotel Carlton

President:

Pier Luigi Zinzani

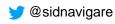
HOW TO TREAT OLDER PATIENTS?

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Disclosures

	Research funding	Consultancy
BMS	٧	٧
Gilead	٧	٧
AstraZeneca	٧	٧
AbbVie	٧	٧
Roche	٧	٧
Janssen	٧	٧
Novartis	٧	٧
Takeda	٧	٧
TG Therapeutics		٧
Kite	٧	٧
Lilly		٧
BeiGene	٧	٧
Advantage		٧
Allogene		٧

No share ownership, patents or board membership

Outline

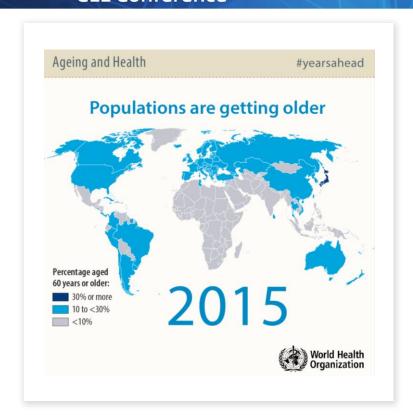
- 1. Impact of patient's age and fitness in CLL
- 2. Geriatric assessment
- 3. How to treat elderly CLL?



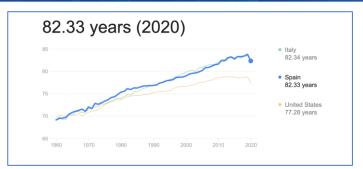
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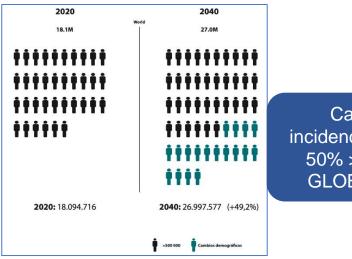




http://apps.who.int/iris/bitstream/10665/186466/1/9789240694873_spa.pdf.



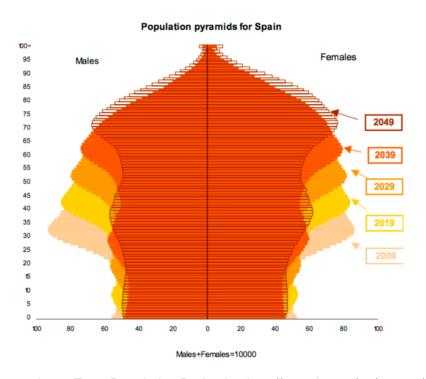
Source: data.worldbank.org



Cancer incidence: 49,2% 50% > 65 yrs GLOBOCAN

https://gco.iarc.fr/tomorrow/en/dataviz/isotype?age_start=0&single_unit=500000

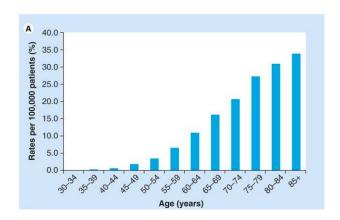
Spanish population pyramid



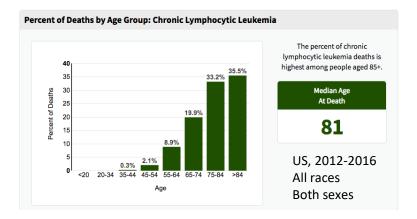
Data Source: Long-Term Population Projection http://www.ine.es/en/prensa/np587_en.pdf

Population and CLL trends in aging

- Median age, 72 y-o
- Incidence 37.9 cases/100.000/year > 85 years
- Increasing life expectancy







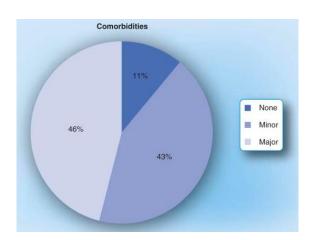
Data Source: https://seer.cancer.gov/statfacts/html/amyl.html

Impact of patients' age and fitness

- OS shorter than age-matched populations (except > 75 yo in early stages) (Shanafeld T et al, Cancer 2010)
- Elderly patients (>70 years) with CLL (Baumann T et al., Haematologica 2014)
 - Higher advanced disease
 - Treated less frequently
- Pharmacokinetic changes in older patients
 - Renal function and tolerability to fludarabine (Davids MS et al, Blood 2017)
- Polypharmacy
 - 84% patients with cancer receiving > 5 medications (Nightingale G et al, JCO 2015)
- Elderly traditionally <u>underrepresented</u> in clinical trials

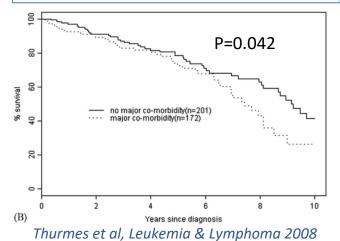
Impact of patients' age and fitness

Age linked to life expectancy → Influences treatment paradigm



Gribben JG. Expert Rev Anticancer Ther. 2010

Patient Age,			
Years	Men	Women	
65	19.2	21.7	
70	15.4	17.4	
75	11.8	13.6	
80	8.7	10.1	
85	6.2	7.3	



Outline

- Impact of patient's age and fitness in CII
- 2. Geriatric assessment in CLL
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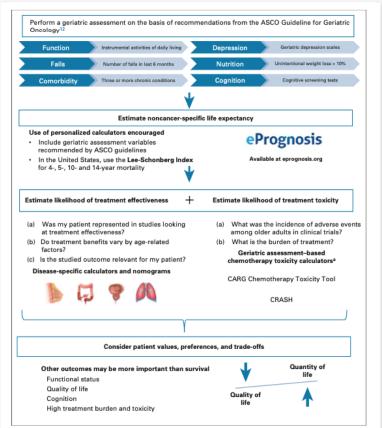


Comprehensive Geriatric Assessment

Decision Making in Older Adults With Cancer

Journal of Clinical Oncology*

DuMontier C, Loh KP, Soto-Perez-de-Celis E, Dale W. Decision Making in Older Adults With Cancer. J Clin Oncol. 2021 Jul 1;39(19):2164-2174. doi: 10.1200/JCO.21.00165. Epub 2021 May 27. PMID: 34043434; PMCID: PMC8260915.



Framework for decision making in older adults with cancer. aCurrent toxicity calculators exist for chemotherapy only. For surgical risks, consider the ACS NSQIP Surgical Risk Calculator, which to include outcomes for older adults. ACS: American College of Surgeons; CARG: Cancer and Aging Research Group; CRASH: Chemotherapy Risk Assessment Scale for High-Age Patients; N Surgical Quality Improvement Program.

Comorbidities assessment tools

- Different tools: CIRS, ECOG PS, Karnofsky PS
- CIRS commonly used in trials (Linn et al, J Am Geriatr Soc 1968)
- CIRS does not correlate well with PS
- No comorbidity score prospectively validated in CLL

Clinical eye useful but overlook some frail patients

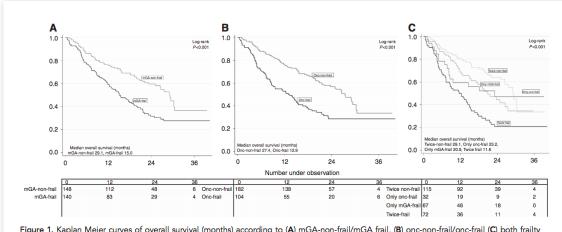


Figure 1. Kaplan Meier curves of overall survival (months) according to (A) mGA-non-frail/mGA frail, (B) onc-non-frail/onc-frail (C) both frailty classifications combined.

- 307 cancer patients (solid and hem)
- Median age 77 y (70 95)
- 67 (23%) patients classified as fragile by mGA-frail, but considered fit by clinical eye

Kirkhus L. et al. Br J Cancer. 2017: 117(4): 470–477.

Outline

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Prognostic/predictive factors in older pts with CLL

CLL-IPI validated in older patients (> 70 y)

(Lancet Oncol 2016; 17:779)

Some biomarkers lose prognostic power with advancing age

(Shanafeld et al, Cancer 2010)

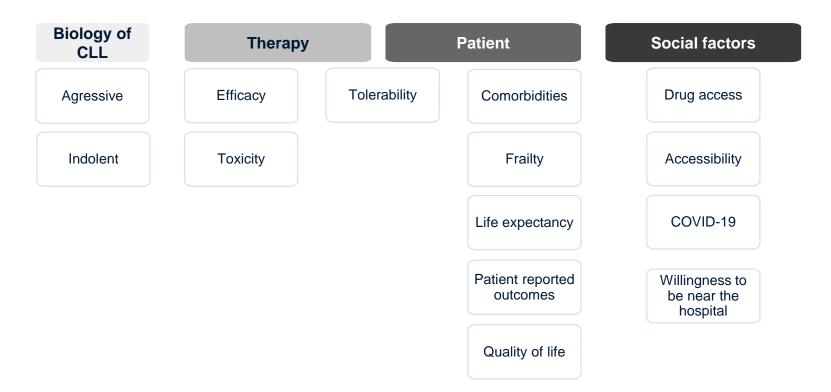
IgHV status not predicting OS at age > 75

Increased incidende of TP53 aberrations in elderly CLL? (Truger et al, Br J Haematol 2015)

Del(17p) or *TP53* mutation retain their predictive value in older CLL

(Shanafeld et al, Cancer 2010; Bosch F et al, JCO 2009) Genomic aging (clonal hematopoiesis)?

Treatment decision in elderly CLL



Does CIT still have a role in elderly CLL?

- FCR tolerated only in selected older patients
 - 11% of CLL8 study > 70 yrs (low CIRS, normal CrCl)
 - Prolonged neutropenia (stem-cell exhaustion)
 - Increased risk of SPM in older pts (Maurer et al, Leukemia 2016)
- Chl + Obinutuzumab considered standard in unfit (CIRS > 6 and/or CrCl < 70 mL/min) until recently
 - Median PFS at 3 yrs: 41%
- Targeted therapies equal or superior to CIT in all trials

CLL13 (Gaia): Benefit of VenO vs. CIT

			VenO			CIT				
Category	Subgroup	N	N	Events	36-month PFS rate (%)	N	Events	36-month PFS rate (%)	Hazard ratio	95% CI
All		926	229	33	87.7	229	67	75.5		
	А	246	60	6	89.4	61	12	79.5	0.46	0.17 – 1.22
Binet stage at screening	В	349	90	13	88.7	85	25	79.1	0.44	0.23 - 0.87
	С	331	79	14	85.3	83	30	68.8	0.39	0.21 - 0.73
Age groups (years)	≤65	597	147	21	88.2	150	34	83.7	0.54	0.31 - 0.93
Age groups (years)	>65	329	82	12	86.6	79	33	61.6	0.29	0.15 – 0.55

Eichhorst B, et al. EHA 2022. Abstract LB2365

3rd POSTGRADUATE

CLL Conference

CLL: Treatment of patients unfit for FCR

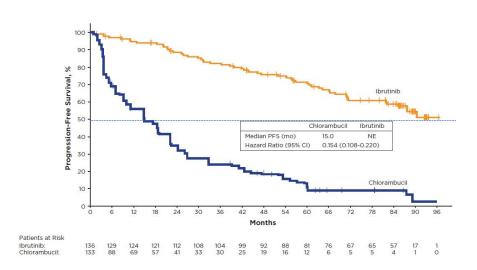
TREATMENT	TRIAL	Median age	Median CIRS	N=	CR	uMRD	PFS (3 years)	PFS (3 years) UM-IGHV	Benefit in OS
CLB + Obinu	CLL11 ^{1,2}	74	8	333	21%	30%	40%	30%	Yes
CLB + Rituxi	CLL11 ^{1,2}	73	8	330	7%	3%	20%	20%	
Ibrutinib	Resonate-2 ³	70	4/5	136	18%	-	80%	70%	Yes
Ibrutinib	Alliance*4	70	-	182	7%	1%	85%	70%	No
Ibru + Rituxi	Alliance*4	71	-	182	12%	4%	80%	70%	
Benda + R	Alliance*4	71	-	182	26%	8%	60%	50%	
Acalabrutinib + O	Elevate ⁵	70		179	13%		93%	80%	Yes
Acalabrutinib	Elevate ⁵	71		179	1%		87%	80%	
CLB + Obinu	Elevate ⁵	70		177	5%	_	47%	20%	
Ven + Obinu	CLL14 ⁶	71	8	216	50%	42%	75%	80%	No
CLB + Obinu	CLL14 ⁶	72	9	216	23%	14%	55%	30%	
I + V	Glow	71	9	106	38.7%	52%	85% (2 yr)	-	No
CLB + Obinu	Glow	71	8	105	11.4%	17%	47% (2 yrs)	-	

¹Goede et al, NEJM 2014; ²Goede et al, Blood 2015; ³Barr et al, Haematologica 2018; ⁴Woyach et al, NEJM 2018; ⁵Sharman et al, Lancet 2020; ⁶Fischer et al, NEJM 2019; ⁷Kater et al, EHA 2021

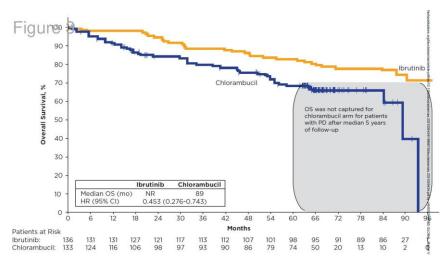
RESONATE-2: PFS

Ibrutinib vs. CLB

Responate-2 PFS (median follow-up: 8 years)²



Resonate-2: OS



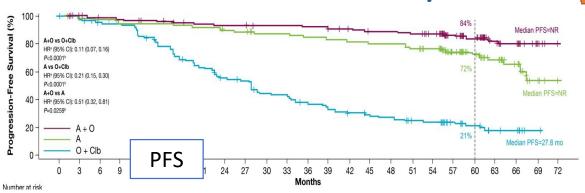
Burger JA, et al. N Engl J Med 2015; 373:2425–2437; 2. Burger JA, et al. Leukemia 2020; 34:787–798

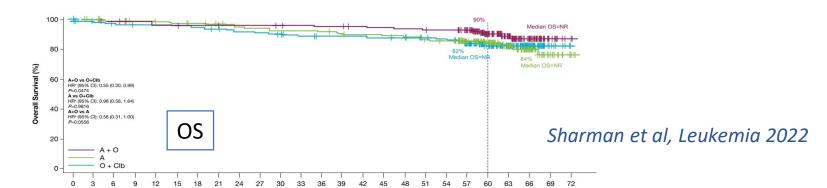
Barr et al, Blood Advances 2022

Barr et al., Blood Advances 2022

ELEVATE TRIAL: 4 yr FU

A + O vs. A vs. CLB + O





V+O vs. CLB + O

CLL14 STUDY



Al-Sawaf et al, EHA 2022

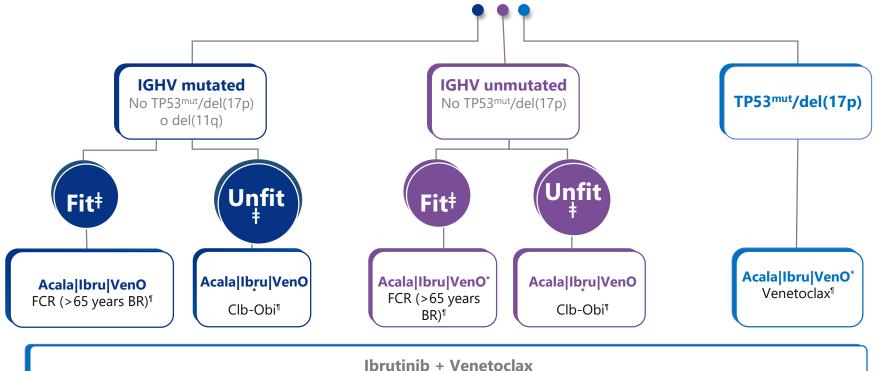
Aes of interest for elderly CLL

- Atrial fibrillation
 - Increased in patients with CLL
 - Shanafeld et al, Blood 2017
 - Ibrutinib: AFib up to 16% with longer FU (vs. 3-9% with second generation BTKi)
 - Higher risk of bleeding with anticoagulants & BTKi
- Tumor Lysis Syndrome
 - Increased risk with impaired renal function

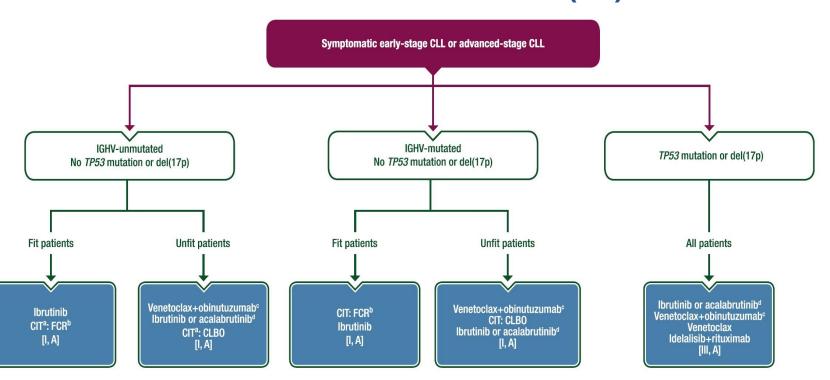


CLL 1°L
(active)
Clinical trial

https://www.gellc.es/



Guidelines ESMO 2021 (1L)



NCCN CLL Guidelines



NCCN Guidelines Version 1.2021 Chronic Lymphocytic Leukemia/Small Lymphocytic Lymphoma

NCCN Guidelines Index
Table of Contents
Discussion

SUGGESTED TREATMENT REGIMENS^{a,b,c,d} CLL/SLL without del(17p)/TP53 mutation (alphabetical by category)

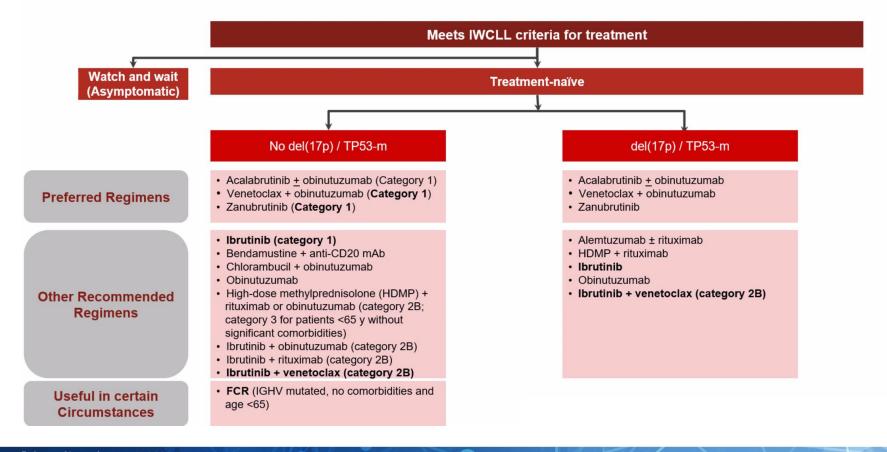
FIRST-LINE THERAPY®					
	Preferred regimens	Other recommended regimens			
Frail patient with significant comorbidity (not able to tolerate purine analogs) OR Patients aged ≥65 y and younger patients with significant comorbidities (creatinine clearance [CrCl] <70 mL/min)	Acalabrutinib ^f ± obinutuzumab (category 1) Ibrutinib ^f (category 1) Venetoclax ^{f,g} + obinutuzumab (category 1)	Bendamustine (70 mg/m² in cycle 1 with escalation to 90 mg/m² if tolerated) + anti-CD20 monoclonal antibody ^{d,h} (not recommended for frail patients) Chlorambucil + obinutuzumab High-dose methylprednisolone (HDMP) + rituximab (category 2B) Ibrutinibf + obinutuzumab (category 2B) Obinutuzumab (category 2B) Chlorambucil (category 3) Rituximab (category 3)			
Patients aged <65 y without significant comorbidities	Preferred regimens • Acalabrutinib [†] ± obinutuzumab (category 1) • Ibrutinib [†] (category 1) • Venetoclax ^{f,g} + obinutuzumab	Other recommended regimens Bendamustine + anti-CD20 monoclonal antibody ^{d,h,i} FCR (fludarabine, cyclophosphamide, rituximab) ^{i,k} (preferred for patients with <i>IGHV</i> -mutated CLL) FR (fludarabine, rituximab) ^{k,l} HDMP + rituximab (category 2B) Ibrutinib ^f + rituximab (category 2B) PCR (pentostatin, cyclophosphamide, rituximab) (category 3)			

POST FIRST-LINE CHEMOIMMUNOTHERAPY MAINTENANCE THERAPY

Other recommended regimen

• Consider lenalidomide for high-risk patients (blood MRD ≥10⁻² or ≥10⁻⁴ and <10⁻² with unmutated IGHV)^m after first-line therapy

1L CLL Treatment Algorithm (US, NCCN Guidelines, Version 1.2023)



SUMMARY

Comorbidity is common and prognostically relevant in elderly patients

Geriatric assessment should be part of the personalized therapeutic approach in CLL

Enormous progress in the treatment of elderly CLL with newer treatments

Choice of treatment \rightarrow individualized according to disease and patient's characteristics (still a role for oral alkylating agents!)

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Funding















