



# HIGHLIGHTS IN EMATOLOGIA

23-24 NOVEMBRE 2018  
TREVISO  
Sala Convegni  
Ospedale Ca' Foncello

**Quesiti aperti nella LLC:  
la prognosi è cambiata  
anche per il paziente anziano ?**

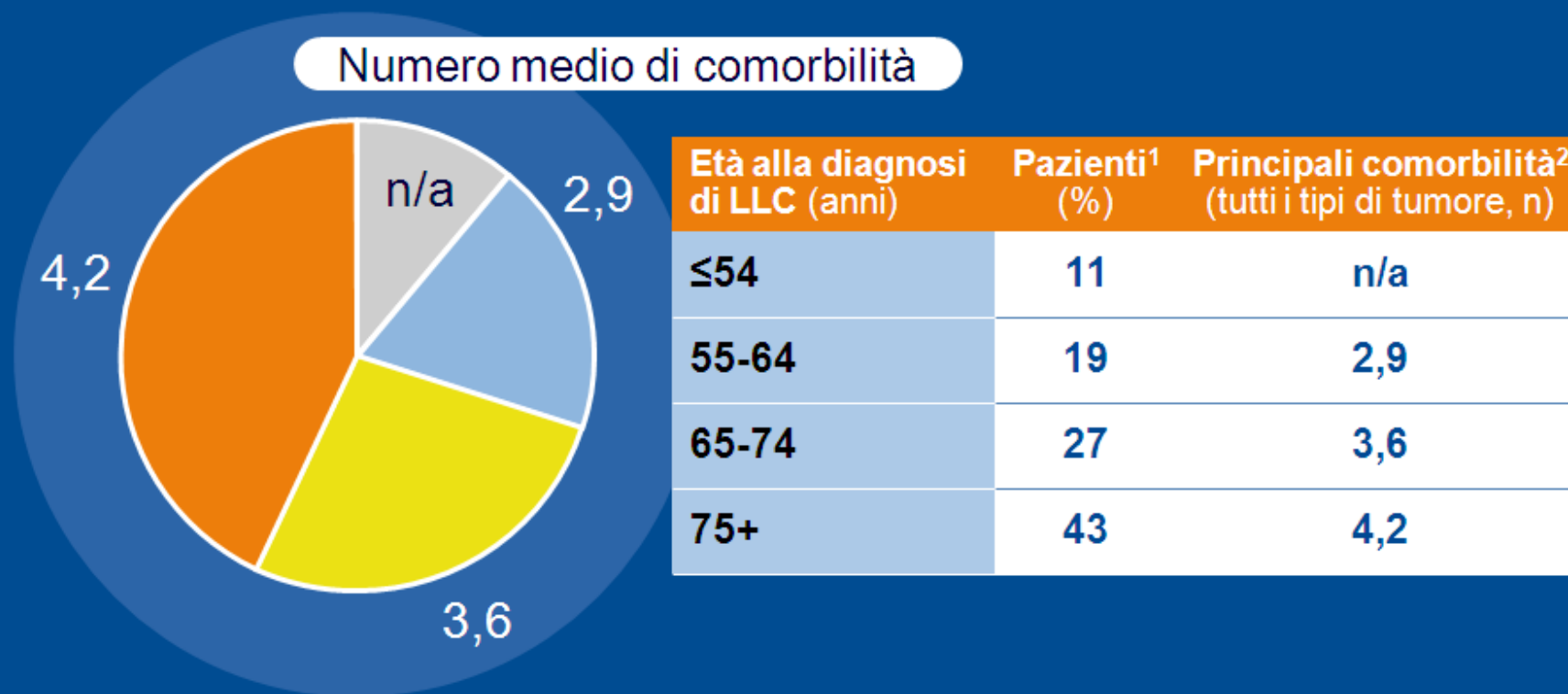
**F. Zaja - Trieste**

# Epidemiology of CLL

- Diagnosis is around 72 years of age
- The incidence of CLL increases with age
- Almost 70% of CLL patients are older than 65 years at the time of diagnosis
  - 29% diagnosed between 45-64 years of age;
  - 56% diagnosed between 65-84 years of age;
  - 13% diagnosed above 85 years of age.
- More than 50% of patients who require therapy are > 70 years of age
- Median age at death from CLL is 79 years

## Caratteristiche dei pazienti affetti da LLC

- Età media alla diagnosi: 72 anni<sup>1</sup>
- Molti pazienti anziani sono in buona salute, ma alcuni presentano comorbidità



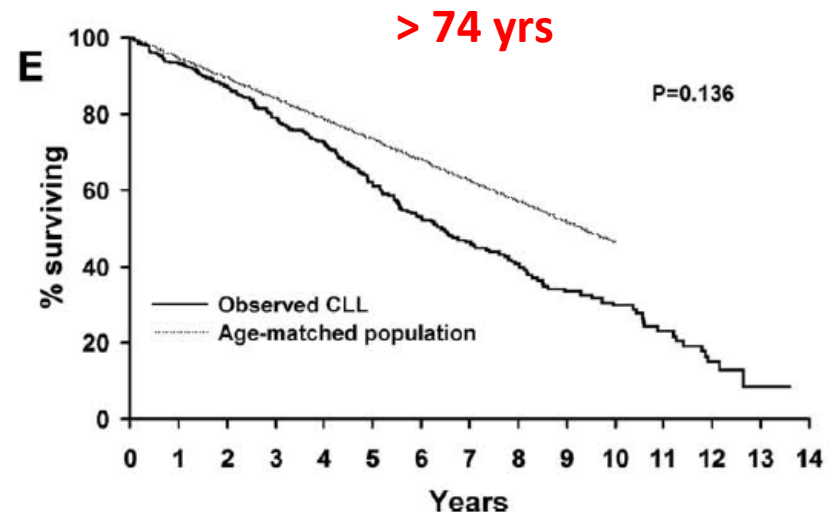
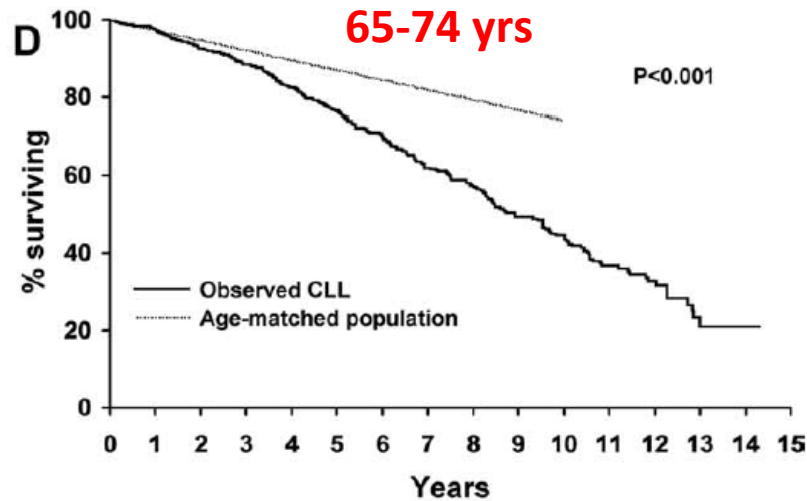
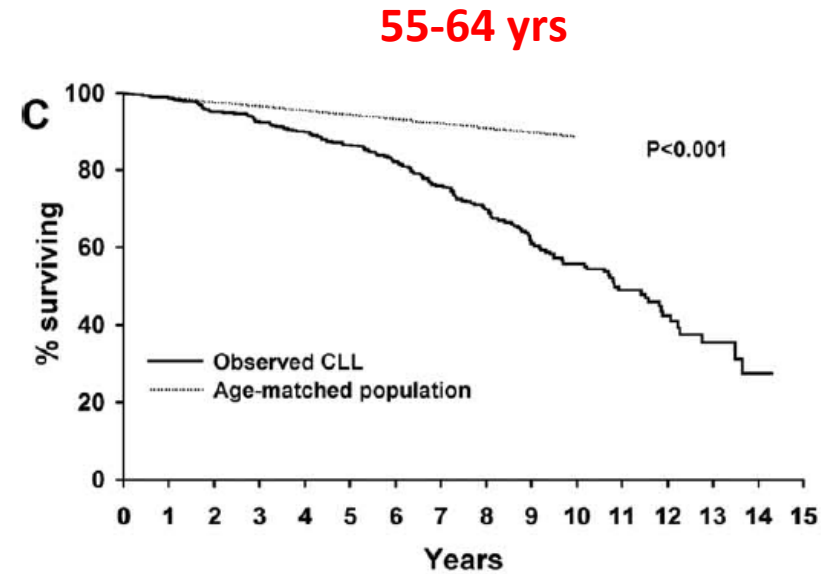
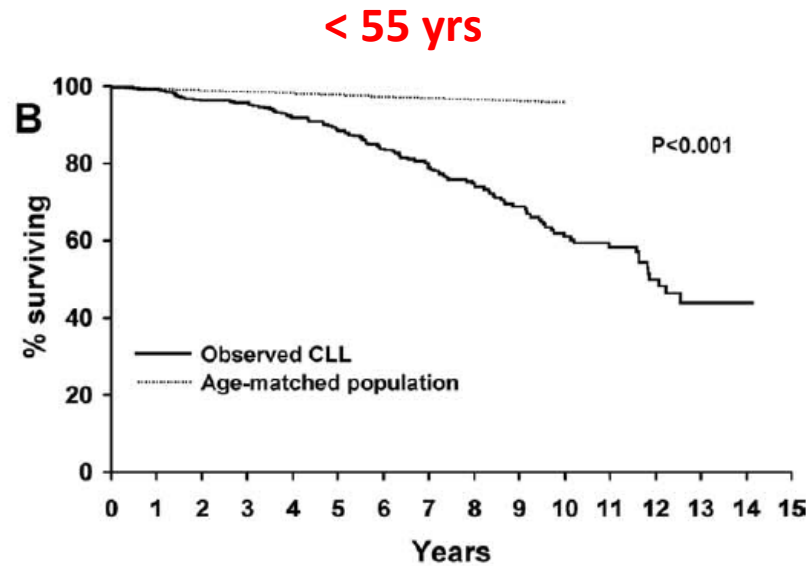
1. Ries LAG, et al. SEER Cancer Statistics Review 1975–2005. Available at: [http://seer.cancer.gov/csr/1975\\_2005/](http://seer.cancer.gov/csr/1975_2005/) accessed February 2009.

2. Yancik R, Cancer 1997; 80: 1273–83.

## Stratificazione dei pazienti in diversi gruppi clinici a seconda della presenza o meno di comorbidità loro stato di “fitness”

| <b>‘Go-go’</b>   | <b>‘Slow-go’</b>  | <b>‘No-go’</b>  |
|--|---|---|
| <ul style="list-style-type: none"><li>• <b>Completamente indipendenti</b></li><li>• <b>No comorbidità</b></li><li>• <b>Normale aspettativa di vita</b></li></ul> <p>→ <b>Approccio terapeutico intensivo</b></p> | <ul style="list-style-type: none"><li>• <b>Alcune comorbidità</b></li><li>• <b>Alcune funzioni d'organo compromesse</b></li><li>• <b>Performance status alterato</b></li></ul> <p>→ <b>Approccio terapeutico meno intensivo</b></p> | <ul style="list-style-type: none"><li>• <b>Condizioni generali compromesse</b></li><li>• <b>Alcune importanti comorbidità</b></li><li>• <b>Aspettativa di vita ridotta</b></li></ul> <p>→ <b>Approccio terapeutico palliativo</b></p> |

# Survival of CLL pts compared with age-matched individuals



# FCR in Elderly

## FCR not well tolerated by patients > 70 years<sup>a,b,c</sup>

- Age > 65 years predict premature discontinuation FCR<sup>a</sup>
- 75% patients ≥ 70 years have grade 3/4 myelosuppression<sup>b</sup>
- 46% patients ≥ 70 years completed 6 cycles<sup>[b,c]</sup>
  - 50% due to prolonged cytopenia

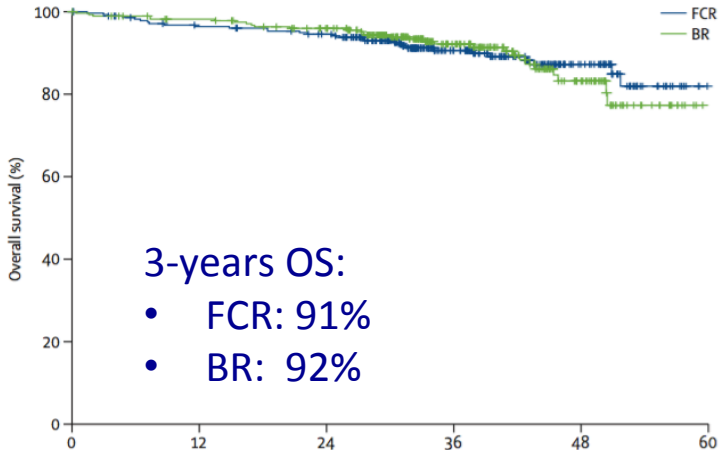
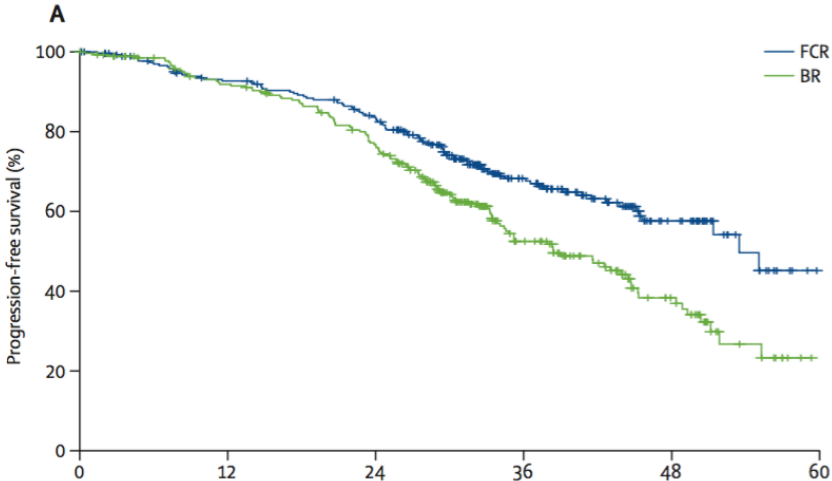
## FCR less effective patients > age 70 years<sup>c</sup>

| Age   | CR Rate | P Value |
|-------|---------|---------|
| < 60  | 75%     | .02     |
| 60-69 | 77%     |         |
| ≥ 70  | 51%     |         |

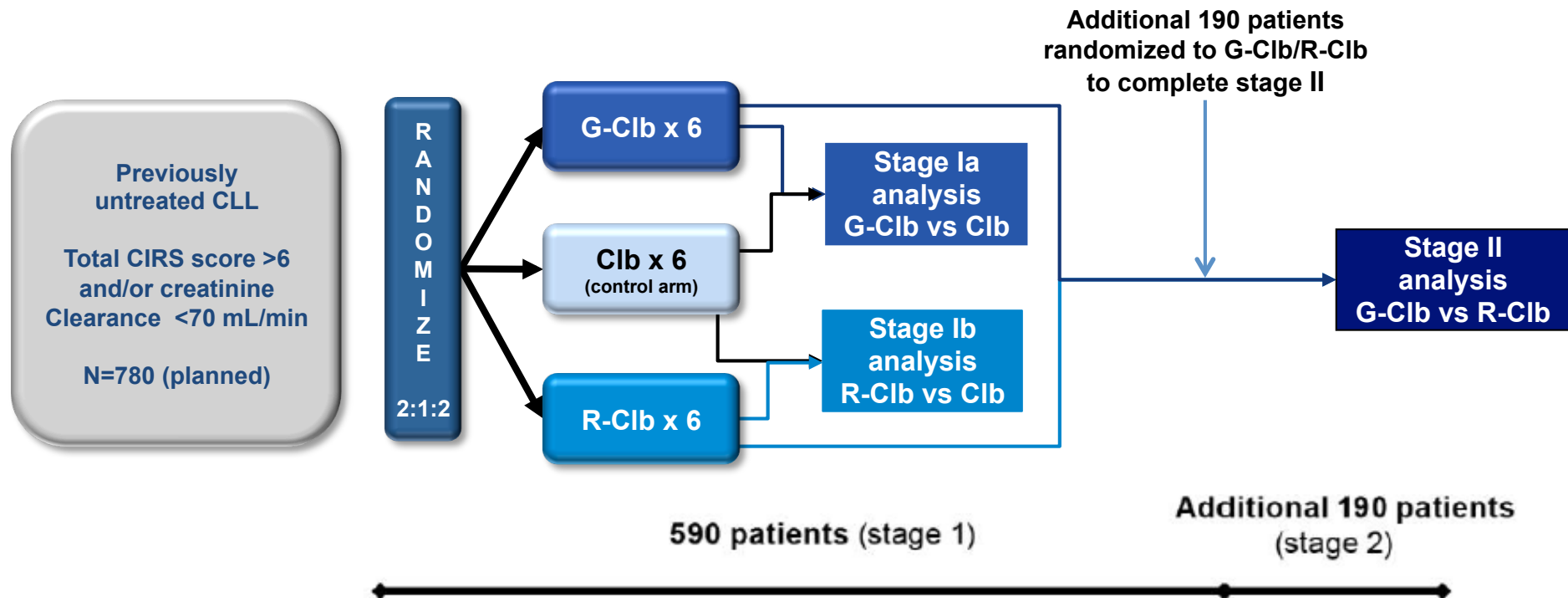
a. Keating MJ, et al. *J Clin Oncol*. 2005;23:4079-4088<sup>[52]</sup>; b. Ferrajoli A, et al. *Leuk Lymph*. 2005;46:S86<sup>[53]</sup>; c. Tam CS, et al. *Blood*. 2008;112:975-980.<sup>[50]</sup>

# 1L chemoimmunotherapy: FCR vs BR (CLL-10)

| Median follow up: 37.1 months | Median PFS (months) |             |               |
|-------------------------------|---------------------|-------------|---------------|
|                               | FCR                 | BR          | P             |
| All patients                  | 55                  | 42          |               |
| ≤ 65 years                    | 54                  | 38.5        | <b>0.0004</b> |
| > 65 years                    | NR                  | <b>48.5</b> | <b>NS</b> ←   |
| unmutated IgHV                | 42.7                | 34          | <b>0.017</b>  |
| mutated IgHV                  | NR                  | 55          | NS            |
| del (11q)                     | 38                  | 25          | <b>0.0002</b> |



# CLL11: Obinutuzomab plus Chlorambucil in patients with CLL and coexisting conditions



- GA101: 1000 mg days 1, 8, and 15 cycle 1; day 1 cycles 2–6, every 28 days
- Rituximab: 375 mg/m<sup>2</sup> day 1 cycle 1, 500 mg/m<sup>2</sup> day 1 cycles 2–6, every 28 days
- Chlorambucil: 0.5 mg/kg day 1 and day 15 cycle 1–6, every 28 days
- Patients with progressive disease in the Clb arm were allowed to cross over to G-Clb

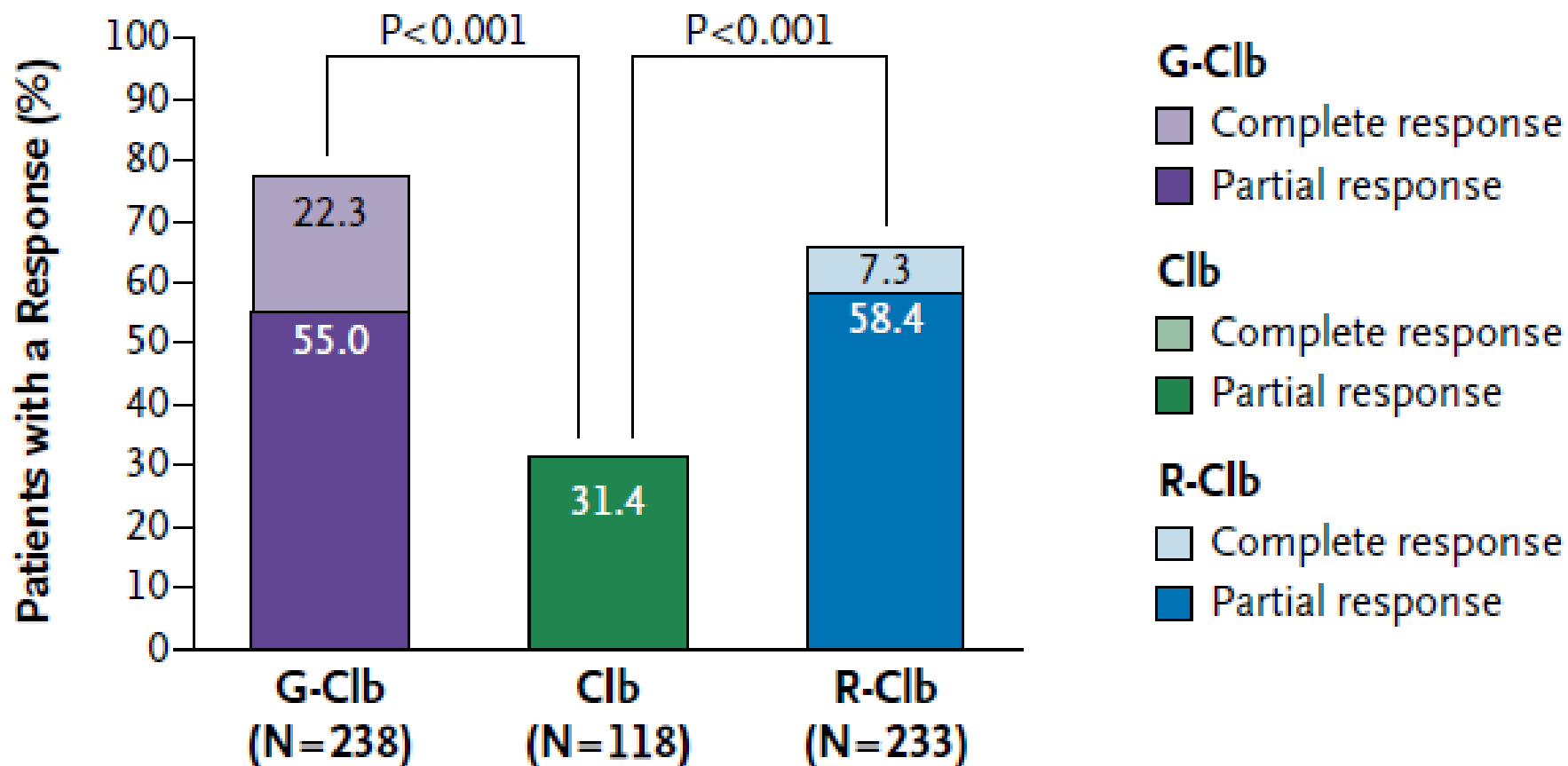


# Obinutuzumab plus Chlorambucil in Patients with CLL and Coexisting Conditions

| Characteristic                            | Obinutuzumab–Chlorambucil vs. Chlorambucil Alone |                            | Rituximab–Chlorambucil vs. Chlorambucil Alone |                            | Obinutuzumab–Chlorambucil vs. Rituximab–Chlorambucil |                                |
|---|--|----------------------------|---|----------------------------|--|--------------------------------|
|   | Obinutuzumab–Chlorambucil (N=238)                | Chlorambucil Alone (N=118) | Rituximab–Chlorambucil (N=233)                | Chlorambucil Alone (N=118) | Obinutuzumab–Chlorambucil (N=333)                    | Rituximab–Chlorambucil (N=330) |
| Age — yr                                  |  |                            |   |                            |  |                                |
| Median                                    | 74   | 72                         | 73  | 72                         | 74   | 73                             |
| Range                                     | 39–88  | 43–87                      | 40–90   | 43–87                      | 39–89  | 40–90                          |
| Cumulative Illness Rating Scale†          |  |                            |   |                            |  |                                |
| Score — median (range)                    | 8 (1–20)   | 8 (0–18)                   | 8 (0–18)                                      | 8 (0–18)                   | 8 (0–22)   | 8 (0–18)                       |
| Unmutated <i>IGHV</i> — no./total no. (%) | 129/210 (61)                                     | 58/99 (59)                 | 126/204 (62)                                  | 58/100 (58)                | 188/305 (62)   | 182/298 (61)                   |
| del(17p) on FISH — no./total no. (%)      | 16/203 (8)                                       | 10/96 (10)                 | 9/196 (5)                                     | 10/97 (10)                 | 22/295 (7)   | 20/287 (7)                     |

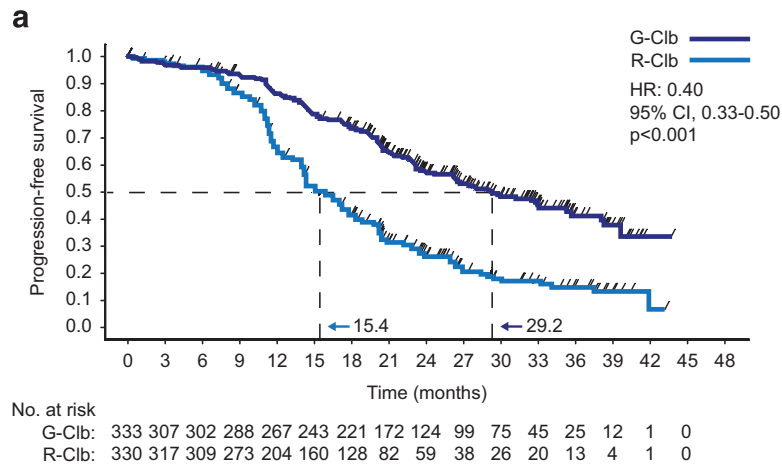
# Response rates

A

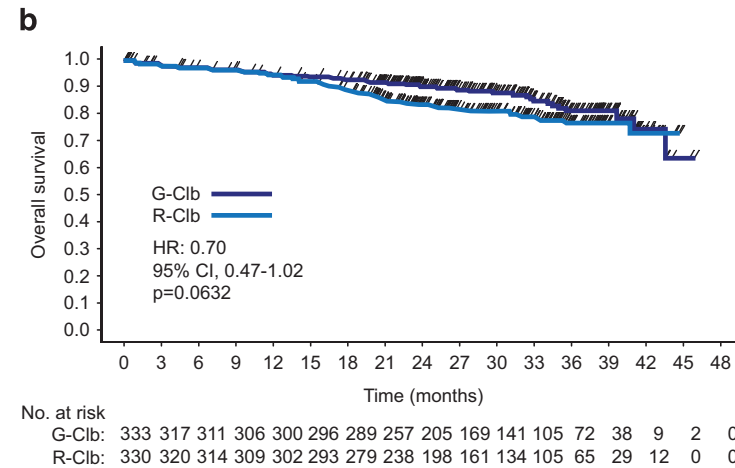


# Obinutuzomab as front line treatment of Chronic Lymphocytic leukemia: updated results of CLL11 study with 12 months more of follow-up

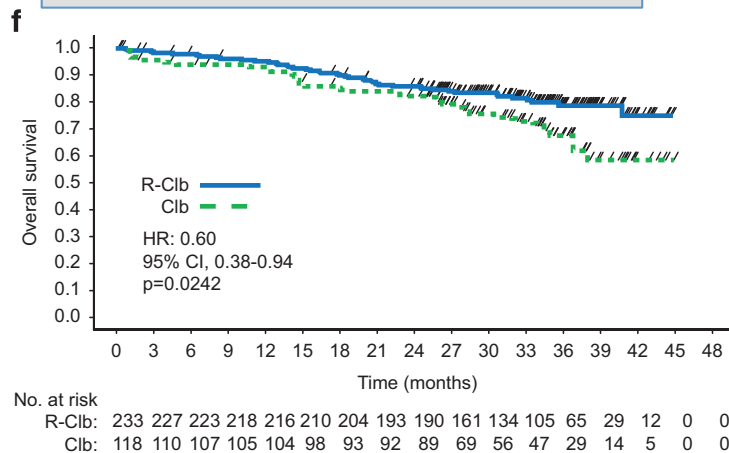
## Progression Free survival of G-Clb vs R-Clb



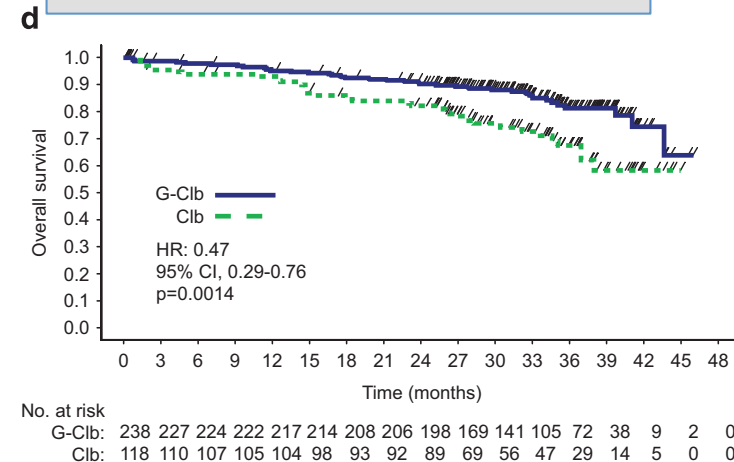
## Overall survival of G-Clb vs R-Clb



## Overall survival of R-Clb vs Clb



## Overall survival of G-Clb vs Clb



# Ibrutinib: indicazioni AIFA per CLL

## Prima linea:

- Pazienti con 17p-/mutazione p53
- Pazienti età > 70 anni
- Pazienti 65 – 69 anni:
  - con clearance creatinina < 70 ml/min
  - PLT < 100 x 10<sup>9</sup>/L o Hb < 100 g/L
  - AHA o ITP
  - ECOG 1 o 2

## Seconda linea:

- Tutti

# Ibrutinib as initial therapy for patients with CLL

An international open-label, randomized phase 3 trial to compare Ibrutinib vs Chlorambucil in previously untreated **older patients > 65 years** with CLL or SLL. (**RESONATE-2**)

Primary end-point: progression free survival

269 patients randomized 1:1 to receive either oral Ibrutinib (420 mg/day) until disease progression or unacceptable toxicities, or up to 12 cycles of Chlorambucil

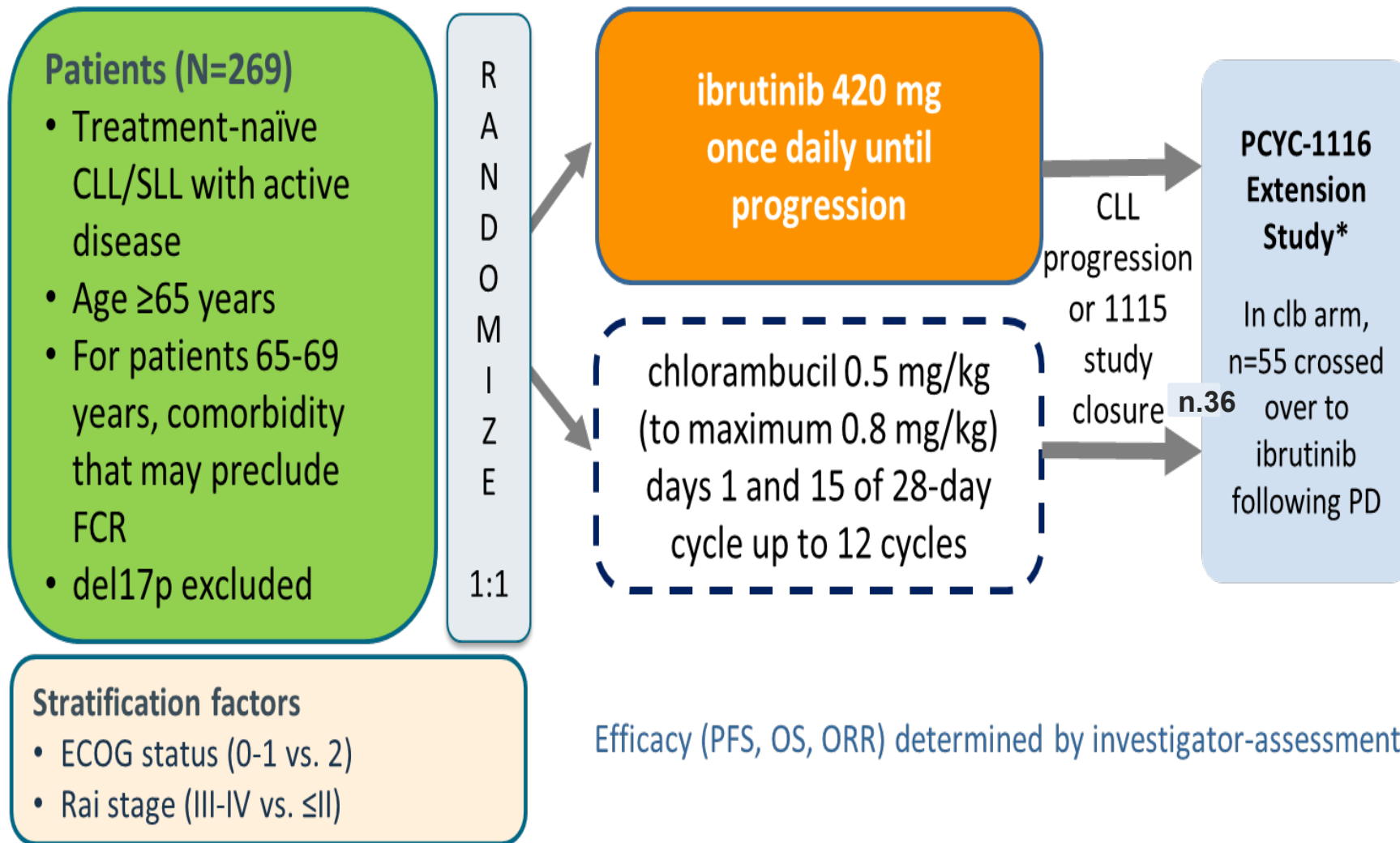
## 136 patients received Ibrutinib:

- **Median Age:** **73 (65-89)**
- ECOG PS 0-1 92%
- CLL patients 90%
- RAI stage III-IV 44%
- Del(11q) 21%
- Unmutated IgHV 43%

## Key inclusion criteria:

- Age  $\geq$  65 years
- Previously untreated CLL or SLL
- ECOG PS  $\leq$  2
- Absence of del(17p)
- Creatinine clearance  $<$ 70 mL/min
- PLT count  $<$ 100,000/ $\mu$ L or Hb  $<$ 10 g/dL
- Autoimmune cytopenia (AIHA, AIT)
- ECOG performance score = 1 or 2

# RESONATE-2 (PCYC-1115/1116)



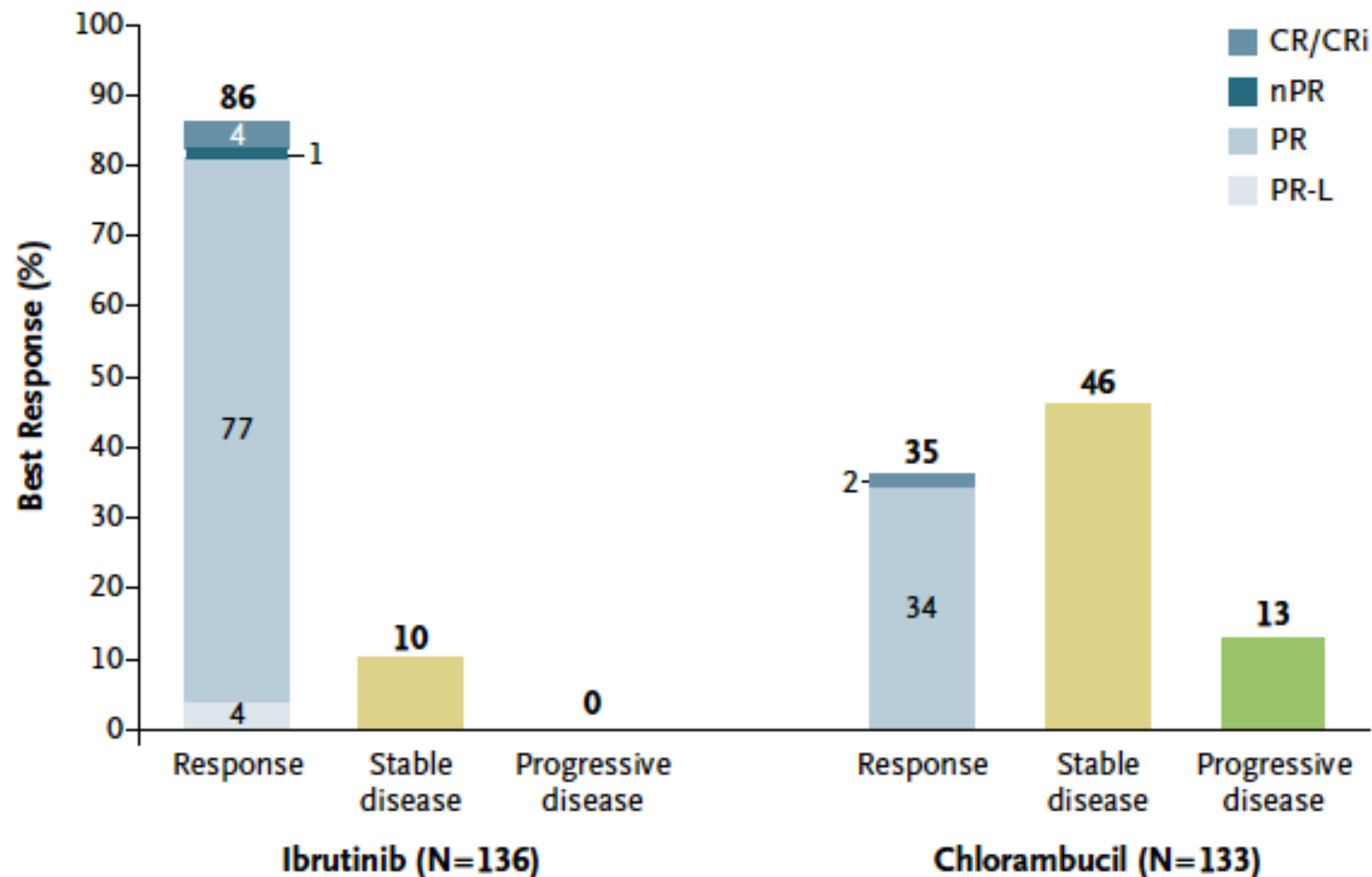
\*Patients could enroll in separate extension study PCYC-1116 after independent review committee-confirmed PD or at study PCYC-1115 closure for continuing treatment and follow-up.

## RESONATE2: Patient Characteristics

| Characteristic                              | ibrutinib<br>(n=136) | chlorambucil<br>(n=133) |
|---|----------------------|-------------------------|
| Median age, years (range)                   | 73 (65–89)           | 72 (65–90)              |
| ≥70 years, %                                | 71                   | 70                      |
| ECOG performance status, %                  |                      |                         |
| 0   | 44                   | 41                      |
| 1   | 48                   | 50                      |
| 2   | 8                    | 9                       |
| Rai stage III or IV, %                      | 44                   | 47                      |
| CIRS score >6, %                            | 31                   | 33                      |
| Creatinine clearance <60 mL/min, %          | 44                   | 50                      |
| Bulky disease ≥5 cm, %                      | 40                   | 30                      |
| β2-microglobulin >3.5 mg/L, %               | 63                   | 67                      |
| Hemoglobin ≤11 g/dL, %                      | 38                   | 41                      |
| Platelet count ≤100 x 10 <sup>9</sup> /L, % | 26                   | 21                      |
| Del11q, %                                   | 21                   | 19                      |
| Unmutated IGHV, %                           | 43                   | 45                      |

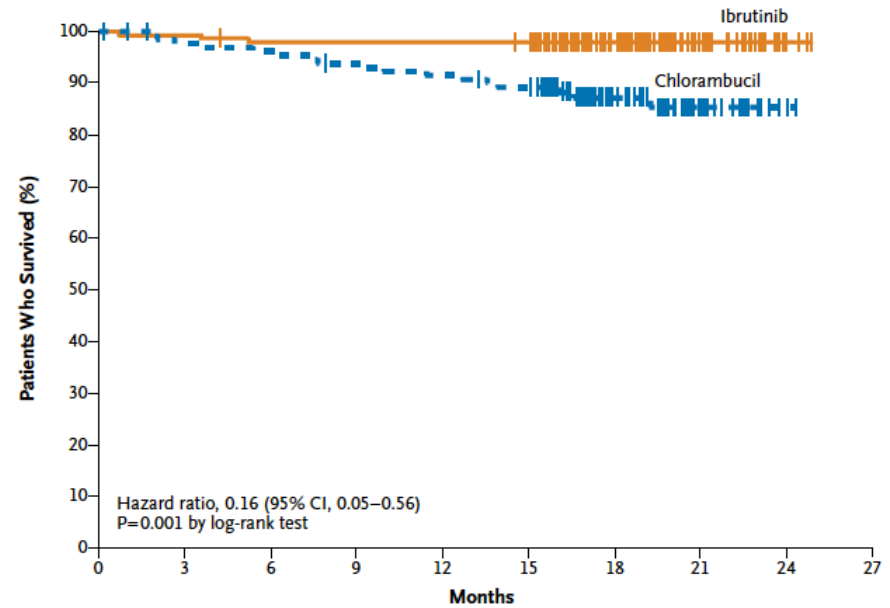
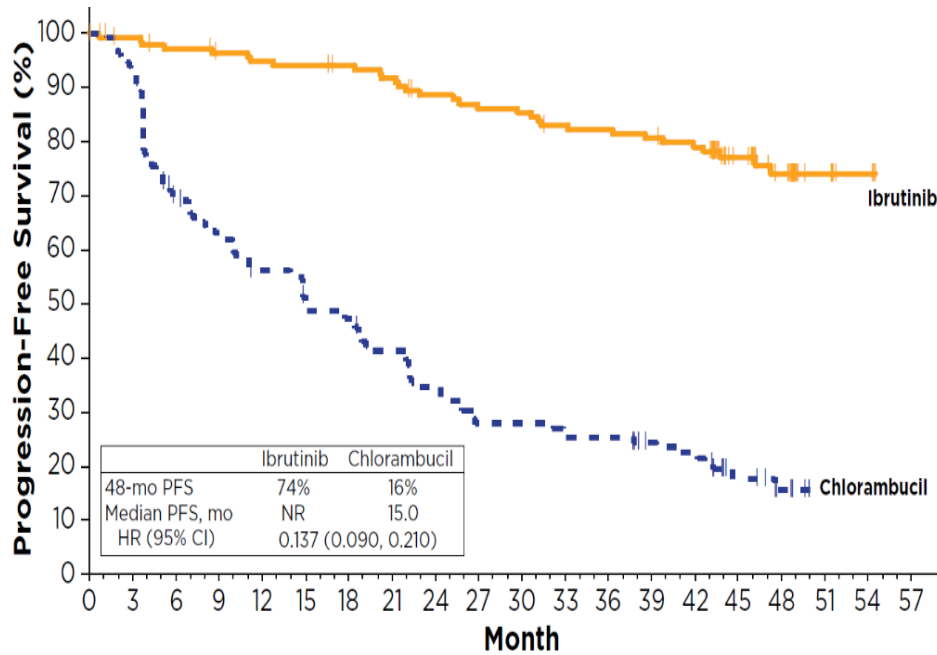
# Ibrutinib as initial therapy for patients with CLL

| Overall Response Rate | Ibrutinib<br>% of patients | Chlorambucil<br>% of patients | Rate Ratio (95% CI) | P Value |
|-----------------------|----------------------------|-------------------------------|---------------------|---------|
| With PR-L             | 86                         | 35                            | 2.42 (1.91–3.07)    | <0.001  |
| Without PR-L          | 82                         | 35                            | 2.32 (1.82–2.95)    | <0.001  |



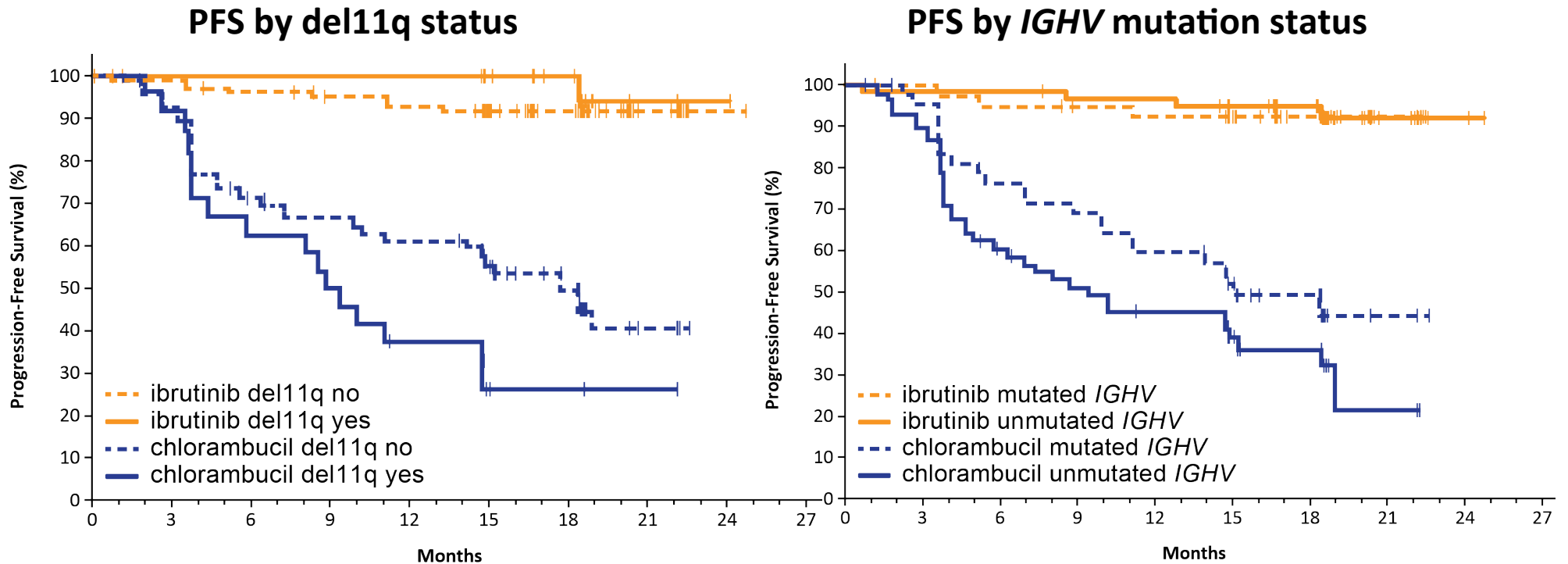


# Ibrutinib as initial therapy for patients with CLL



| Age    | n   | HR (95% CI)      |
|--------|-----|------------------|
| <70 yr | 80  | 0.13 (0.04–0.46) |
| ≥70 yr | 189 | 0.17 (0.09–0.32) |

# PFS by Investigator for High-Risk Subgroups



- Median PFS in **del11q** subgroup: NR with ibrutinib vs. 9 months with chlorambucil (HR=0.02,  $P<0.0001$ )
- Median PFS in **unmutated IGHV** subgroup: NR with ibrutinib vs. 9 months with chlorambucil (HR=0.06,  $P<0.0001$ )
- Ibrutinib: 18-month PFS 92% in *IGHV* mutated, 95% in unmutated subgroup

## CLL 1L therapy in elderly: G-Clb vs BR vs Ibrutinib

|                   | <b>G-Clb</b><br>Hallek NEJM 2014         | <b>BR</b><br>Eichhorst Lancet Onc 2016   | <b>Ibrutinib</b><br>Resonate 2 |
|-------------------|--|--|--------------------------------|
| Patients          | 333                                      | 273                                      | 136                            |
| Median age        | 74<br>> 65 years= 81%<br>> 75 years= 46% | 61<br>> 65 years= 81%<br>> 70 years= 22% | 73                             |
| ORR               | 77%                                      | 98%                                      | 86%                            |
| <b>CR</b>         | 22%                                      | 31.5%                                    | 4%                             |
| MRD PB            | 38%                                      | 63%                                      |                                |
| <b>Median PFS</b> | 29 months                                | 43 months                                | Not reached                    |
| 2-years PFS       | 60%                                      | 75%                                      | 85%                            |
| OS                | 3 years: 75%                             | 3 years: 92%                             | 2 years OS: 98%                |

## RESONATE study: duration of Ibrutinib Treatment

|   | First-line Ibrutinib<br>(n=136) |
|---|---------------------------------|
| <b>Median (range) duration of ibrutinib treatment, mo<sup>a</sup></b> | 47 (1-55)                       |
| <b>Treatment duration, n (%)</b>                                      |                                 |
| ≥3 years  | 99 (73)                         |
| ≥4 years  | 56 (41)                         |
| <b>Continuing ibrutinib on study, n (%)</b>                           | 89 (65)                         |
| <b>Discontinued ibrutinib, n (%)</b>                                  |                                 |
| PD  | 7 (5)                           |
| AEs   | 26 (19)                         |
| Death   | 7 (5)                           |
| Withdrawal of consent   | 4 (3)                           |
| Investigator decision   | 2 (1)                           |

<sup>a</sup>n=135; one patient did not receive any doses of ibrutinib.

- 65% of patients continued first-line ibrutinib treatment on study
- 12% rate of discontinuation for AEs (Barr et al Haematologica 2018)
- 55% of patients crossed over from chlorambucil to ibrutinib following PD

## Update of RESONATE study

| AE<br>Grade                      | Ibrutinib-treated patients<br>n=135 |           |         |       |       |
|----------------------------------|-------------------------------------|-----------|---------|-------|-------|
|                                  | Any                                 | 2         | 3       | 4     | 5     |
| Diarrhea                         | 61 (45)                             | 16 (12)   | 5 (4)   | 0     | 0     |
| Visual disturbances <sup>b</sup> | 30 (22)                             | 6 (4)     | 0       | 0     | 0     |
| Hypertension <sup>c</sup>        | 27 (20)                             | 13 (10)   | 7 (5)   | 0     | 0     |
| Arthralgia                       | 27 (20)                             | 9 (7)     | 3 (2)   | 0     | 0     |
| Atrial fibrillation              | 14 (10)                             | 7 (5)     | 6 (4)   | 0     | 0     |
| Major hemorrhage                 | 9 (7)                               | 1<br>(<1) | 7 (5)   | 1 (1) | 0     |
| Infections (grade ≥3)            | 31 (23)                             | NA        | 28 (21) | 4 (3) | 2 (1) |

# Ibrutinib discontinuation in CLL: reasons

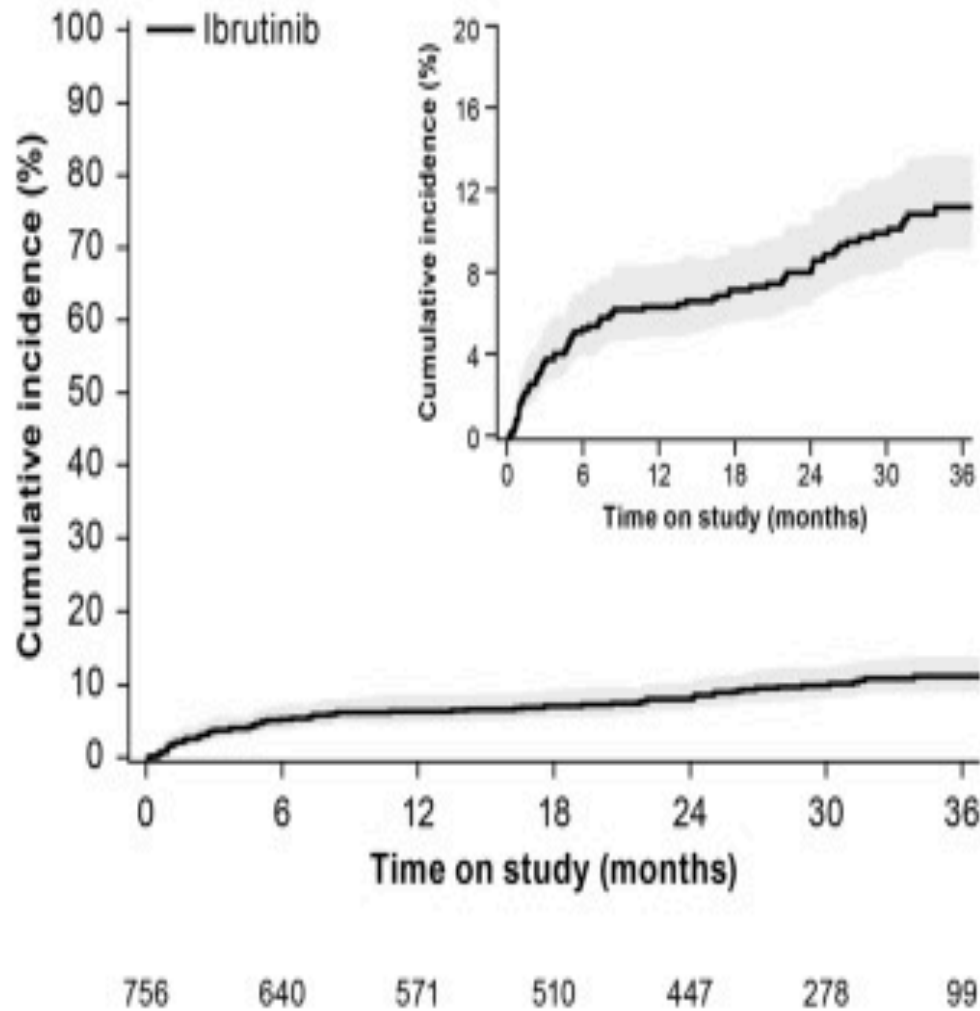
| Discontinuation Reason,%   | Ibrutinib in Frontline Setting |                           | Ibrutinib in Relapse Setting |                            |
|----------------------------|--------------------------------|---------------------------|------------------------------|----------------------------|
|                            | Real World<br>(n = 10)         | Clinical Trial<br>(n = 9) | Real World<br>(n = 200)      | Clinical Trial<br>(n = 31) |
| AE                         | 50.0                           | 77.7                      | 52.5                         | 38.7                       |
| CLL progression            | 10.0                           | 22.2                      | 19.0                         | 35.5                       |
| Other/unrelated death      | 10.0                           | 0                         | 12.0                         | 12.9                       |
| Physician or pt preference | 20.0                           | 0                         | 6.0                          | 9.7                        |
| RT into DLBCL              | 0                              | 0                         | 4.5                          | 0                          |
| SC transplantation/CAR-T   | 0                              | 0                         | 3.5                          | 3.2                        |
| Financial concerns         | 0                              | 0                         | 1.0                          | 0                          |
| Secondary malignancy       | 10.0                           | 0                         | 1.0                          | 0                          |
| RT into HL                 | 0                              | 0                         | 0.5                          | 0                          |

- 40% of pts discontinued ibrutinib during study period
- Ibrutinib starting dose did not affect d/c rate

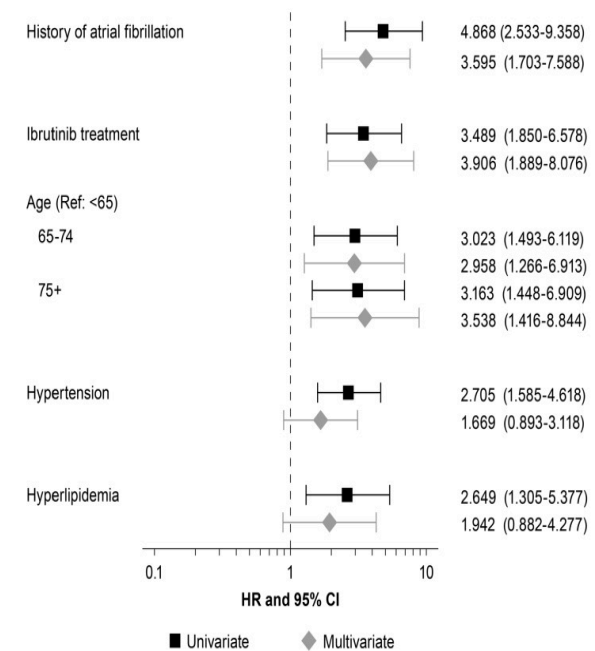
# Ibrutinib discontinuation in CLL: most common AEs causing discontinuation

| Ibrutinib-Associated Toxicity Causing D/c | Ibrutinib in Relapsed Setting, % | Ibrutinib in Frontline Setting, % | Median Time to D/c, Mos |
|---|----------------------------------|-----------------------------------|-------------------------|
| Atrial fibrillation                       | 12.3                             | 25.0                              | 7.0                     |
| Infection                                 | 10.7                             | --                                | 6.0                     |
| Pneumonitis                               | 9.9                              | --                                | 4.5                     |
| Bleeding                                  | 9.0                              | --                                | 8.0                     |
| Diarrhea                                  | 6.6                              | --                                | 7.5                     |
| Arthralgia                                | --                               | 41.6                              | 5.0                     |
| Rash                                      | --                               | 16.7                              | 3.5                     |

# ATRIAL FIBRILLATION



- Pooled analysis of 4 phase 3 trials
- 10% after a follow-up of 36 months
- **RISK FACTORS:** age (in particular >75yy), history of AF and ibrutinib treatment





# Targeting BCL2 with Venetoclax in Relapsed Chronic Lymphocytic Leukemia

Roberts et al. N Engl J Med. 2015

**Table 1. Characteristics of the Patients at Baseline.\***

| Characteristic  | Dose-Escalation Cohort (N=56) | Expansion Cohort (N=60) | All Patients (N=116)  |
|---|-------------------------------|-------------------------|-----------------------|
| <b>Age</b>  |                               |                         |                       |
| Median (range) — yr   | 67 (36–86)                    | 66 (42–84)              | 66 (36–86)            |
| ≥70 yr — no. (%)  | 20 (36)                       | 14 (23)                 | 34 (29)               |
| <b>Sex — no. (%)</b>  |                               |                         |                       |
| Male  | 41 (73)                       | 48 (80)                 | 89 (77)               |
| Female  | 15 (27)                       | 12 (20)                 | 27 (23)               |
| <b>Diagnosis — no. (%)</b>  |                               |                         |                       |
| Chronic lymphocytic leukemia  | 49 (88)                       | 53 (88)                 | 102 (88)              |
| Small lymphocytic lymphoma  | 7 (12)                        | 7 (12)                  | 14 (12)               |
| <b>Rai stage III or IV — no. (%)</b>                                    | 28 (50)                       | 39 (65)                 | 67 (58)               |
| <b>Median no. of previous therapies (range)†</b>                        | 4 (1–10)                      | 3 (1–11)                | 3 (1–11)              |
| <b>Resistance to most recent therapy — no. (%)‡</b>                     | 23 (41)                       | 22 (37)                 | 45 (39)               |
| <b>Previous fludarabine-based therapy — no. (%)</b>                     |                               |                         |                       |
| Any previous fludarabine  | 51 (91)                       | 49 (82)                 | 100 (86)              |
| Resistance to fludarabine   | 28 (50)                       | 42 (70)                 | 70 (60)               |
| <b>ECOG performance status — no. (%)</b>                                |                               |                         |                       |
| Grade 0   | 29 (52)                       | 27 (45)                 | 56 (48)               |
| Grade 1   | 27 (48)                       | 31 (52)                 | 58 (50)               |
| Missing data  | 0                             | 2 (3)                   | 2 (2)                 |
| <b>Peripheral-blood lymphocytosis</b>                                   |                               |                         |                       |
| Absolute lymphocyte count > 5000 per mm <sup>3</sup> — no. (%)          | 31 (55)                       | 35 (58)                 | 66 (57)               |
| Median count per mm <sup>3</sup> (range)                                | 27,600 (5400–204,500)         | 25,100 (5200–259,900)   | 27,500 (5200–259,900) |
| <b>Bulky nodes — no. (%)</b>  |                               |                         |                       |
| >5 cm   | 29 (52)                       | 38 (63)                 | 67 (58)               |
| >10 cm  | 10 (18)                       | 12 (20)                 | 22 (19)               |
| <b>Interphase cytogenetic abnormality — no./total no. with CLL (%)§</b> |                               |                         |                       |
| Chromosome 17p deletion   | 19/49 (39)                    | 12/53 (23)              | 31/102 (30)           |
| Chromosome 11q deletion   | 13/49 (27)                    | 15/53 (28)              | 28/102 (27)           |
| No chromosome 17p or 11q deletion                                       | 16/49 (33)                    | 27/53 (51)              | 43/102 (42)           |
| Data missing or indeterminate   | 7/49 (14)                     | 3/53 (6)                | 10/102 (10)           |
| <b>IGHV mutation status — no./total no. with CLL (%)</b>                |                               |                         |                       |
| Unmutated   | 26/49 (53)                    | 20/53 (38)              | 46/102 (45)           |
| Mutated   | 6/49 (12)                     | 11/53 (21)              | 17/102 (17)           |
| Data missing  | 17/49 (35)                    | 22/53 (42)              | 39/102 (38)           |

**Table 3. Complete and Overall Response Rates, According to Cohort and Subgroup.**

| Variable                  | No. of Patients | Complete Response Rate <sup>a</sup> | Overall Response Rate |
|---------------------------|-----------------|-------------------------------------|-----------------------|
|                           |                 | <i>percent of patients (95% CI)</i> |                       |
| All patients              | 116             | 20 (13–28)                          | 79 (71–86)            |
| Dose-escalation cohort    | 56              | 30 (19–44)                          | 77 (64–87)            |
| Expansion cohort          | 60              | 10 (4–21)                           | 82 (70–91)            |
| Age                       |                 |                                     |                       |
| ≥70 yr                    | 34              | 21 (9–38)                           | 71 (53–85)            |
| <70 yr                    | 82              | 20 (12–30)                          | 83 (73–90)            |
| No. of previous therapies |                 |                                     |                       |
| ≥4                        | 56              | 16 (8–28)                           | 73 (60–84)            |
| <4                        | 60              | 23 (13–36)                          | 85 (73–93)            |
| Fludarabine resistance    |                 |                                     |                       |
| Yes                       | 70              | 16 (8–26)                           | 79 (67–88)            |
| No                        | 44              | 27 (15–43)                          | 82 (67–92)            |
| Bulky nodes of >5 cm      |                 |                                     |                       |
| Yes                       | 67              | 8 (3–17)                            | 78 (66–87)            |
| No                        | 48              | 38 (24–53)                          | 83 (70–93)            |
| Chromosome 17p deletion   |                 |                                     |                       |
| Yes                       | 31              | 16 (6–34)                           | 71 (52–86)            |
| No                        | 60              | 18 (10–30)                          | 80 (68–89)            |
| Chromosome 11q deletion   |                 |                                     |                       |
| Yes                       | 28              | 11 (2–28)                           | 82 (63–94)            |
| No                        | 62              | 21 (12–33)                          | 76 (63–86)            |
| IGHV status               |                 |                                     |                       |
| Unmutated                 | 46              | 17 (8–31)                           | 76 (61–87)            |
| Mutated                   | 17              | 29 (10–56)                          | 94 (71–100)           |

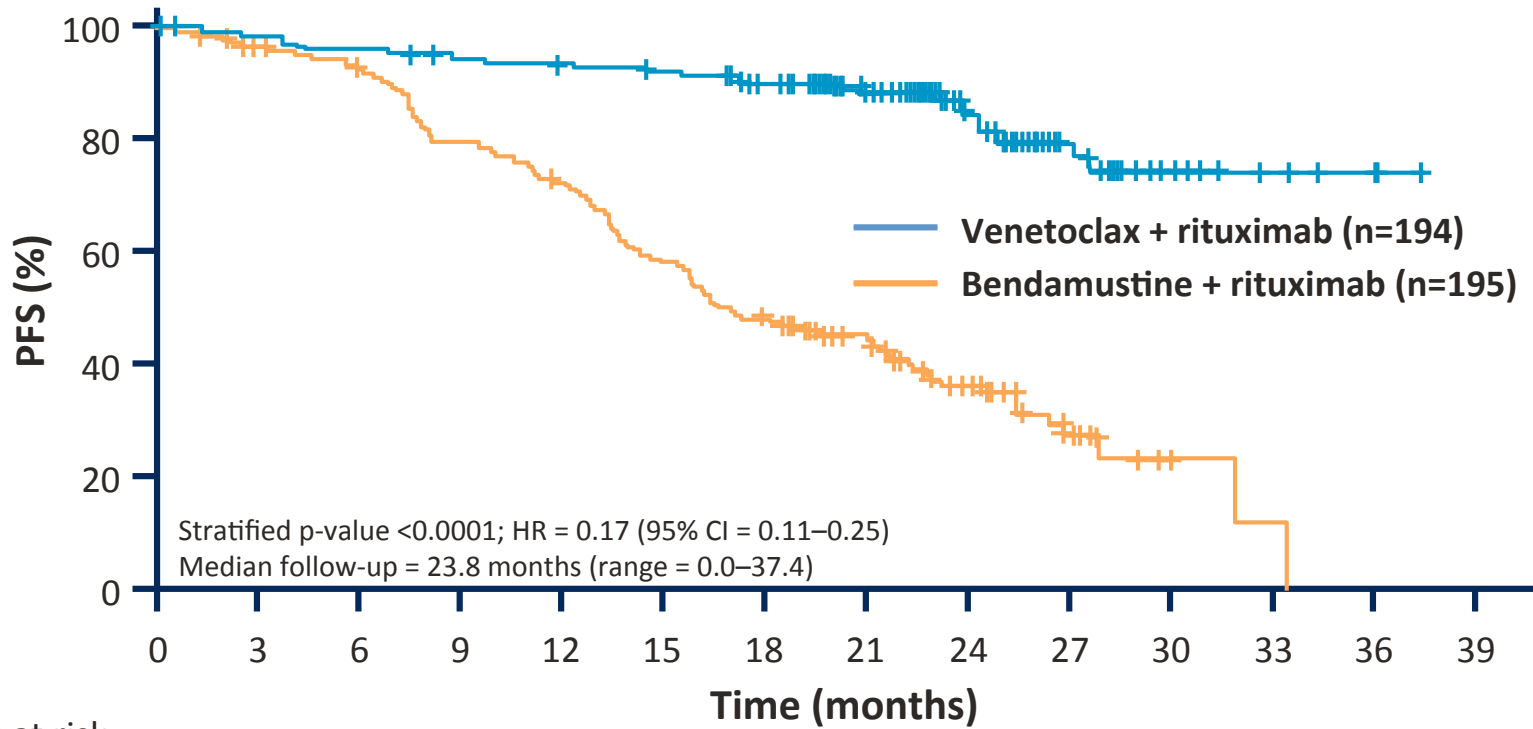
# MURANO: Patient characteristics

| Characteristics                         | BR<br>(n=195)  | VR<br>(n=194)  | Characteristics                        | BR<br>(n=195)  | VR<br>(n=194)  |
|---|----------------|----------------|--|----------------|----------------|
| Age, median, years (range)              | 66 (22–85)     | 64.5 (28–83)   | Baseline TLS risk, n (%)               |                |                |
| Male, n (%)                             | 151 (77.4)     | 136 (70.1)     | High                                   | 55 (28.2)      | 54 (27.8)      |
| ECOG PS, n/N (%)                        |                |                | Medium                                 | 104 (53.3)     | 106 (54.6)     |
| 0                                       | 108/194 (55.7) | 111/194 (57.2) | Low                                    | 36 (18.5)      | 34 (17.5)      |
| 1                                       | 84/194 (43.3)  | 82/194 (42.3)  | <b>High risk status,*</b> n (%)        | 107 (54.9)     | 104 (53.6)     |
| 2                                       | 2/194 (1.0)    | 1/194 (0.5)    | <b>del(17p)</b> – central lab, n/N (%) | 46/169 (27.2)  | 46/173 (26.6)  |
| Prior cancer therapies, n (%)           |                |                | <b>TP53 mutated</b> , n/N (%)          | 51/184 (27.7)  | 48/192 (25.0)  |
| 1                                       | 117 (60)       | 111 (57.2)     | <i>IGHV</i> n/N (%)                    |                |                |
| 2                                       | 43 (22.1)      | 57 (29.4)      | Unmutated                              | 123/180 (68.3) | 123/180 (68.3) |
| 3                                       | 34 (17.4)      | 22 (11.3)      | Mutated                                | 51/180 (28.3)  | 53/180 (29.4)  |
| >3                                      | 1 (0.5)        | 4 (2.1)        | Unknown                                | 6/180 (3.3)    | 4/180 (2.2)    |
| <b>Fludarabine refractory</b> , n/N (%) | 30/194 (15.5)  | 27/191 (14.1)  |  |                |                |

\* High risk defined as: harbouring del(17p), or no response to first-line chemotherapy-containing regimen, or relapsed within 12 months after chemotherapy or 24 months after chemoimmunotherapy.  
ECOG PS, Eastern Cooperative Oncology Group performance status.

Seymour JF, et al. New Engl J Med. 2018.

# MURANO: PFS



No. of patients at risk

|                          |     |     |     |     |     |     |     |     |    |    |    |   |   |   |
|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|---|---|---|
| Venetoclax + rituximab   | 194 | 190 | 185 | 179 | 176 | 173 | 157 | 115 | 76 | 33 | 14 | 5 | 3 | 0 |
| Bendamustine + rituximab | 195 | 177 | 163 | 141 | 127 | 102 | 81  | 57  | 35 | 12 | 3  | 1 | 0 | 0 |

| Treatment  | Patients with events (%) | Median PFS, months | HR (95% CI)      | Stratified p-value | 1-year PFS (%) | 2-year PFS (%) |
|------------|--------------------------|--------------------|------------------|--------------------|----------------|----------------|
| VR (n=194) | 32 (16.5)                | NE                 | 0.17 (0.11–0.25) | <0.0001            | 92.7           | 84.9           |
| BR (n=195) | 114 (58.5)               | 17.0               |                  |                    | 72.5           | 36.3           |

Unstratified p-value <0.0001; HR = 0.17.

Seymour JF, et al. New Engl J Med. 2018.

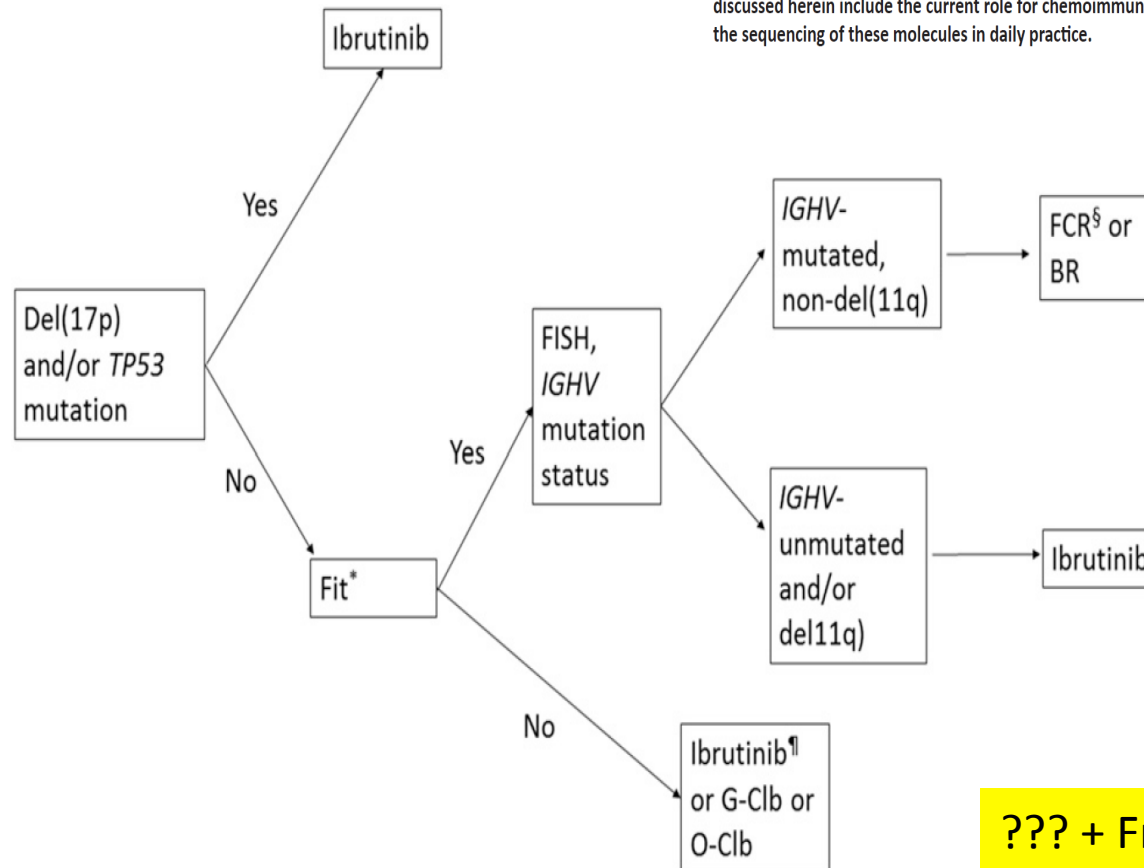
# ASCO Guidelines 2018: Treatment of Patients With CLL According to Currently Available Therapies

## Approaches to Chronic Lymphocytic Leukemia Therapy in the Era of New Agents: The Conundrum of Many Options

Nitin Jain, MD, Philip Thompson, MD, Alessandra Ferrajoli, MD, Chadi Nabhan, MD, MB, Anthony R. Mato, MD, MSCE, and Susan O'Brien, MD

### OVERVIEW

Three small molecule inhibitors have been approved for the treatment of chronic lymphocytic leukemia (CLL) in the last 4 years. Ibrutinib, idelalisib, and venetoclax are oral agents with excellent efficacy and different toxicity profiles. Issues discussed herein include the current role for chemoimmunotherapy in CLL, the use of oral inhibitors in older patients, and the sequencing of these molecules in daily practice.



??? + Frail/no go: Clb

\*Fit is defined as CIRS score of 6 or less and an eGFR of 70mL/min/1.73m<sup>2</sup> or greater.

§FCR is preferred instead of BR in patients with favorable genomic risk who are predicted to tolerate FCR, given the proven potential to achieve very-long-term remissions in this patient population.

¶Ibrutinib is preferred instead of G-Clb or O-Clb for this population on the basis of cross-study comparative data, unless comorbidities or financial considerations preclude its use.

Abbreviations: BR, bendamustine and rituximab; G-Cl, obinutuzumab + chlorambucil; FCR, fludarabine, cyclophosphamide, rituximab; FISH, fluorescence in situ hybridization; O-Clb, ofatumumab + chlorambucil.

# **Quesiti aperti nella LLC: la prognosi è cambiata anche per il paziente anziano ?**

**SI, in particolare per gli anziani FIT/UNFIT**

# Quesiti aperti nella LLC: la prognosi è cambiata anche per il paziente anziano ?

- Rispetto a pochi anni fa, disponiamo diverse opzioni terapeutiche per il paziente anziano
- Queste nuove opportunità terapeutiche si caratterizzano per:
  - alto tasso di risposta
  - significativo prolungamento della PFS
  - prolungamento dell'OS (in alcuni gruppi di pazienti)
  - possibili tossicità
  - costi molto elevati
- Difficile poter oggi trattare tutti i pazienti anziani in 1L con i nuovi farmaci
- Probabile che spesso essi possano essere riservati nei casi R/R
- Importanza della selezione del paziente anziano sulla base di caratteristiche:
  - cliniche (fit, unfit, frail)
  - biologiche (FISH, IGHV, mutazioni geniche)