

Impatto clinico terapeutico: LLC

Paolo Ghia

MILANO

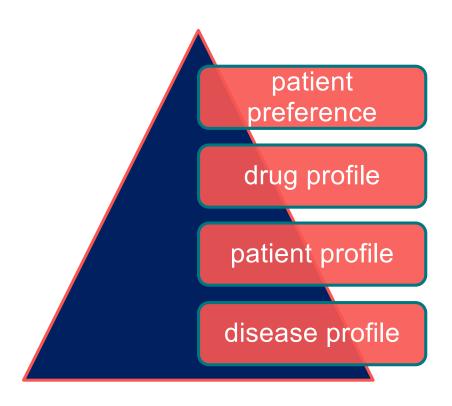
27 Aprile 2022
HILTON MILAN



Disclosures of PAOLO GHIA

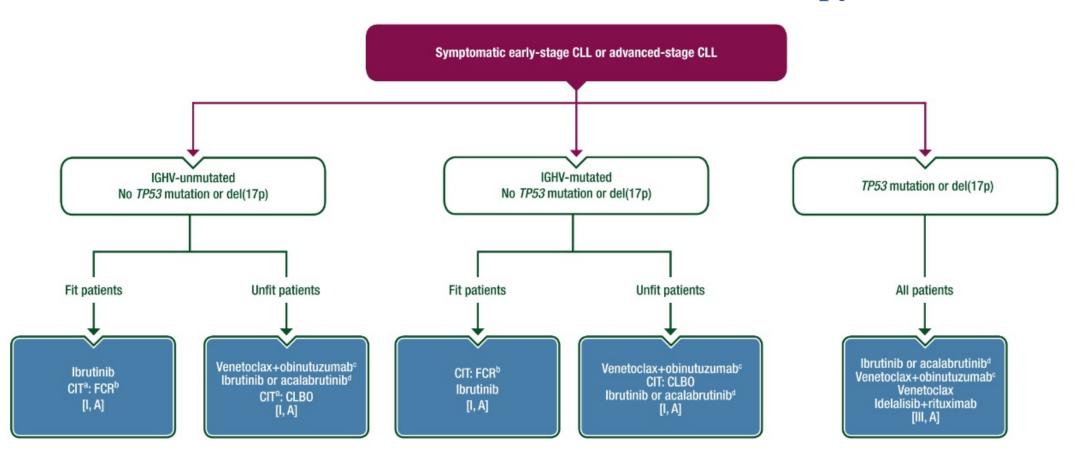
| Company name | Research support | Employee | Consultant | Stockholder | Speakers fees | Advisory board | Other |
|------------------|---------------------|----------|------------|-------------|---------------|----------------|-------|
| AstraZeneca | х | | х | | х | х | |
| AbbVie | x | | x | | x | x | |
| ArQule/MSD | | | x | | | x | |
| BeiGene | | | x | | x | x | |
| CelGene/Juno/BMS | | | x | | | x | |
| Janssen | x | | x | | x | x | |
| Lilly/Loxo | | | x | | x | x | |
| Sanofi | | | x | | | x | |
| Roche | | | х | | | x | |

Personalized management in CLL



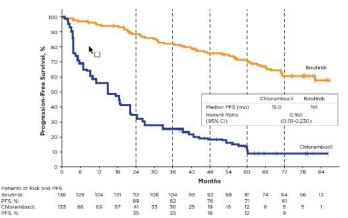


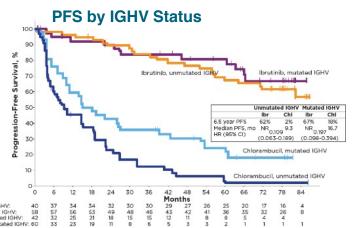
ESMO Clinical Practice: frontline therapy



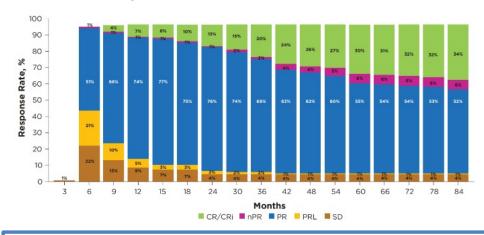
Ph3 RESONATE-2 with up to 7 years of follow-up: 1L ibrutinib

PFS: Ibrutinib vs chlorambucil





Response increase over time: CR/CRi 34%



- Longest follow-up of any Ph3 1L studies of targeted agents
- 61% of patients are alive and progression-free at 6.5 years. 6.5-year OS: 78%.
- Ibr benefit similar in pts with mIGHV and uIGHV, and response including CR/CRi continued to deepen over time.
- Only 16 (12%) pts progressed while receiving ibr.
- Close to 50% of pts remain on therapy; dose adjustments effectively managed most AEs

Patients at Risk

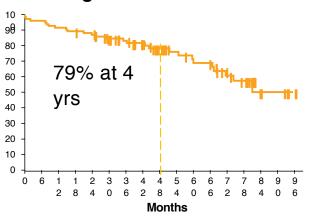


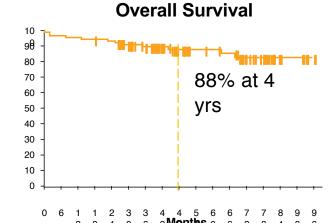
Efficacy of First-Line Ibrutinib for CLL With TP53 Aberrations

Pooled analysis: 4-year follow-up

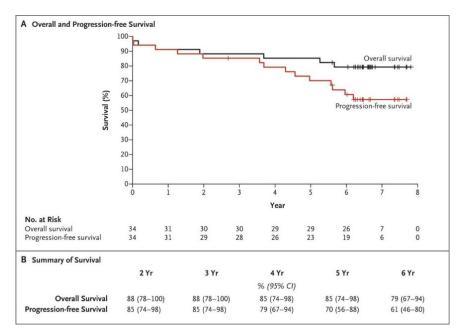
| | PCYC-1122e (NIH study) | RESONATE-2 | iLLUMINATE | ECOG1912 |
|----------|------------------------------|-----------------|------------------------------|-----------------|
| N | 34 | 11 | 18 | 26 |
| Regimen | lbr | lbr | lbr + Obinu | Ibr + Ritux |
| Patients | del(17p)/ <i>TP53</i> mut | <i>TP53</i> mut | del(17p)/ <i>TP53</i> mut | <i>TP53</i> mut |

Progression-free Survival



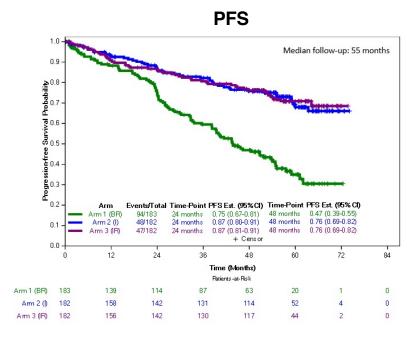


Phase 2 NIH study





Alliance A041202: ibrutinib-based regimens vs bendamustine+R

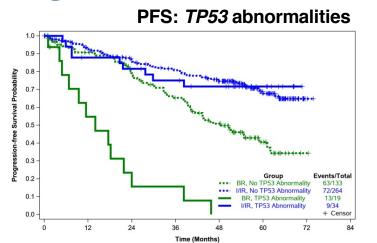


Pairwise Comparisons

I vs BR: Hazard Ratio 0.36 95% CI: 0.26-0.52 P <0.0001

IR vs BR: Hazard Ratio 0.36 95% CI: 0.25-0.51 P <0.0001

IR vs I: Hazard Ratio 0.99 95% CI: 0.66-1.48 P = 0.96



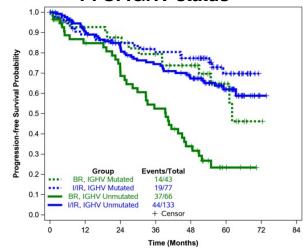
Treatment Effect
I/IR vs BR

No *TP53* Abn Hazard Ratio 0.39 95% CI: 0.27-0.55

<u>TP53 Abn</u> Hazard Ratio 0.07 95% CI: 0.03-0.18

Interaction P = 0.0006

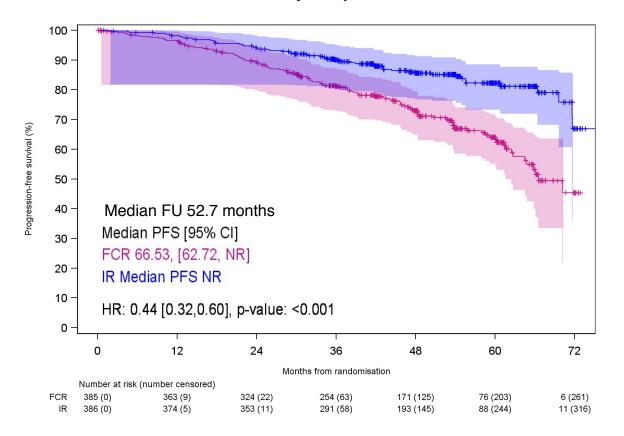
PFS: IGHV status



Third planned interim analysis of Arms 2 and 3 vs Arm 1; second planned interim analysis of Arm 3 vs Arm 2 Median follow-up = 55 months

IN HEMATOLOGY Sindromi linfoproliferative NCRI FLAIR Trial: Ibrutinib + R vs FCR Torino, 5 Aprile 2022 Starhotels Majestic Starhotels Majestic

Primary endpoint: PFS



IWCLL Response 3-months post-treatment with FCR/R

| | FCR (n=385) | IR (n=386) | | |
|----------|----------------|---------------|--|--|
| CR | 233 (60.5%) | 81 (21.0%) | | |
| PR | 106 (27.6%) | 271 (70.2%) | | |
| SD/PD/NR | 46 (11.9%) | 34 (8.8%) | | |

Proportion of participants with MRD negativity* in the bone marrow at 3months post-treatment with FCR/R

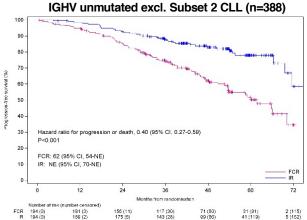
| | FCR (n=385) | IR (n=386) | |
|-----------------|----------------|---------------|----------------------------|
| MRD Negative | 213 (55.3%) | 15 (3.9%) | |
| MRD Positive | 140 (36.4%) | 357 (92.5%) | *, MRD flow |
| N/A | 32 (8.3%) | 14 (3.6%) | CLL cell/10 (IWCLL crit |

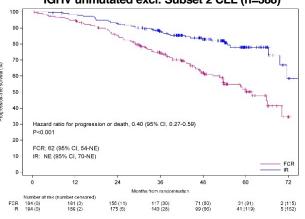
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A greater percentage of participants in the FCR arm became MRD negative in the bone marrow 3-months post-treatment compared to the IR arm (55.3% vs 3.9%)



IN HEMATOLOGY NCRI FLAIR Trial: Ibrutinib + R vs FCR Torino, 5 Aprile 2022 Starhotels Majestic





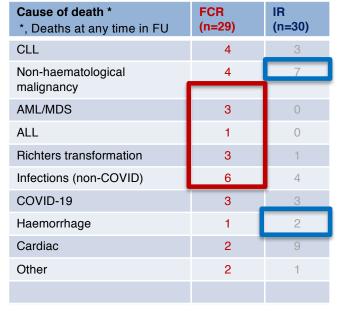
90 80 70 60 Median FU 50.2 months Median OS [95% CI] FCR Median OS NR 20 IR Median OS NR 10 -HR: 1.01 [0.61, 1.68], p-value: 0.9560 60 72 Months from randomisation 94 (266) 377 (5) 95 (261)

PFS by IGHV mutation status

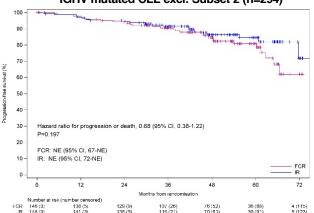
Stereotype Subset 2: n=46 (FCR 20: IR 26) → HR for PD or death 0.32 (95% Cl, 0.06-1.76), p=0.191

Deaths in FCR arm were predominantly secondary haematological malignancies, Richter's transformation and infections.

Deaths in IR arm were predominantly CVrelated and non-haematological malignancies.



IGHV mutated CLL excl. Subset 2 (n=294)



Treatment after progression

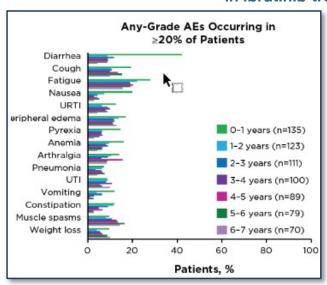
| | FCR (n=56) | IR (n=19) | | | | | | |
|---|---------------|--------------|--|--|--|--|--|--|
| Therapy for Richter's transformation or Hodgkin's | | | | | | | | |
| CHOP-R (5) or ABVD (1) | 4 | 2 | | | | | | |
| Therapy for relapsed CLL | | | | | | | | |
| BTKi | 38 | 0 | | | | | | |
| Idelalisib + R | 1 | 1 | | | | | | |
| Venetoclax + R | 8 | 5 | | | | | | |
| CIT (FCR/BR/ChIR) | 4 | 10 | | | | | | |
| Rituximab | 1 | 1 | | | | | | |
| Targeted therapy for CLL | 47/52 (90%) | 6/17 (35%) | | | | | | |

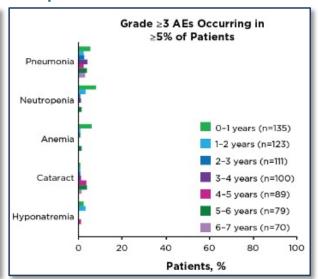
Hillmen et al., ASH 2021; abstract 642



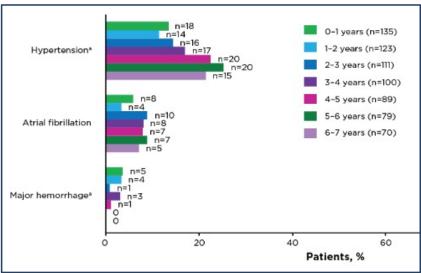
RESONATE-2: AEs with Up to 7 Years of Follow-up

Prevalence of most frequent AEs over time in ibrutinib-treated patients





AEs of clinical interest over time in patients treated with ibrutinib



- 66/79 patients (84%) had an AE that had a complete resolution following a dose hold of at least 7 days
- 31 patients (23%) experienced AEs leading to dose reductions.
 - AEs occurring in >1 patient were thrombocytopenia (n=3), and anemia, arthralgia, diarrhea, fatigue, and palpitations (n=2, each).
- At current follow-up (up to 7 years), 31 patients (23%) experienced AEs as the primary cause of ibrutinib discontinuation.
 - AEs occurring in >1 patient were atrial fibrillation (n=5), pneumonia (n=3), and palpitations (n=2).

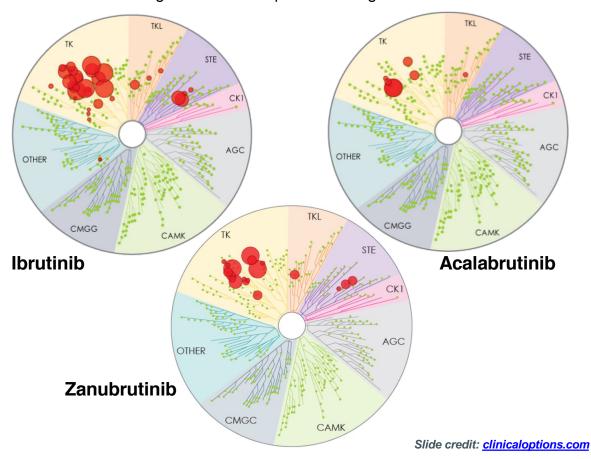
Kinase Selectivity of BTK Inhibitors

Kinase Selectivity Profiling at 1 μmol/L (in vitro)

Larger red circles represent stronger inhibition

| IC_{50}/E | C ₅₀ | (nl | M) |
|-------------|-----------------|-----|----|
|-------------|-----------------|-----|----|

| Kinase | Ibrutinib | Acalabrutinib | Zanubrutinib |
|--------|-----------|---------------|--------------|
| ВТК | 1.5 | 5.1 | 0.5 |
| TEC | 10 | 126 | 44 |
| ITK | 4.9 | >1000 | 50 |
| BMX | 0.8 | 46 | 1.4 |
| EGFR | 5.3 | >1000 | 21 |
| ERBB4 | 3.4 | 16 | 6.9 |
| JAK3 | 32 | >1000 | 1377 |
| BLK | 0.1 | >1000 | 2.5 |

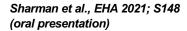


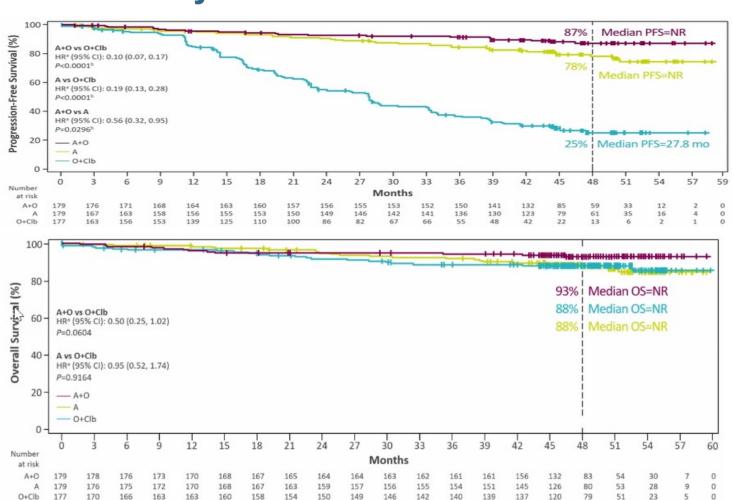
Sharman et al., EHA 2021; S148 (oral presentation)

Phase 3 ELEVATE TN Study: acalabrutinib ± obinutuzumab

Investigator assessed PFS

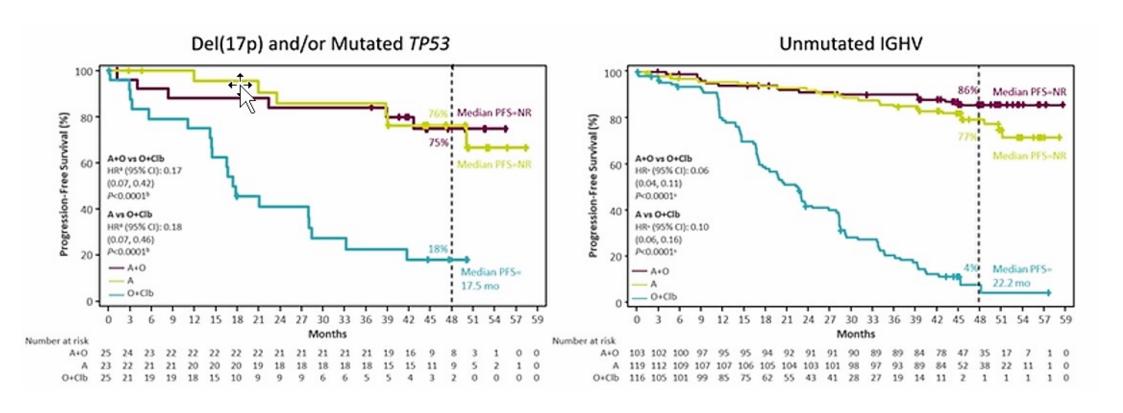
Overall Survival







ELEVATE TN: PFS according to TP53 and IGHV status



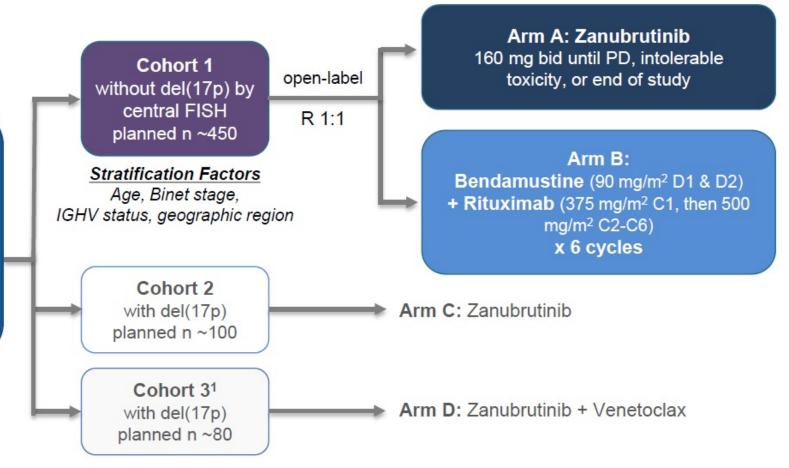
SEQUOIA (BGB-3111-304): Zanubrutinib vs BR in TN CLL

Study Design

Key Eligibility Criteria

- Untreated CLL/SLL
- Met iwCLL criteria for treatment
- ≥65 y of age OR unsuitable for treatment with FCR^a
- Anticoagulation and CYP3A inhibitors allowed

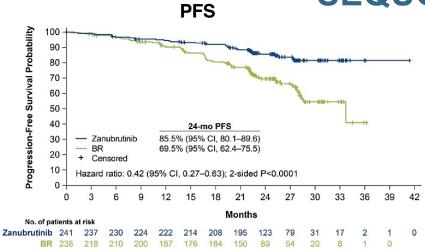
ClinicalTrials.gov: NCT03336333

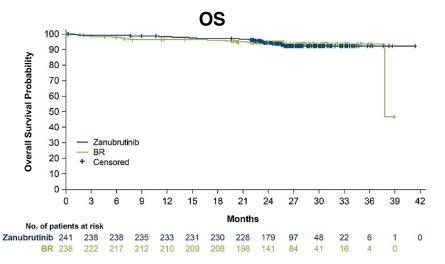


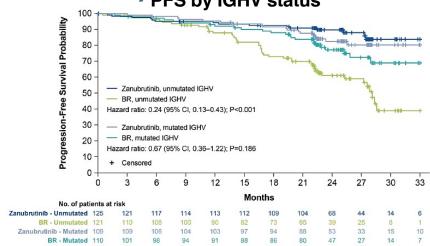
Tam et al., ASH 2021; abstract 396

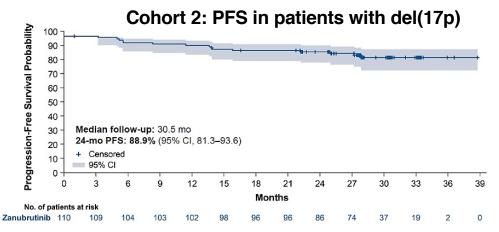


SEQUOIA (BGB-3111-304)_{PFS by IGHV status}







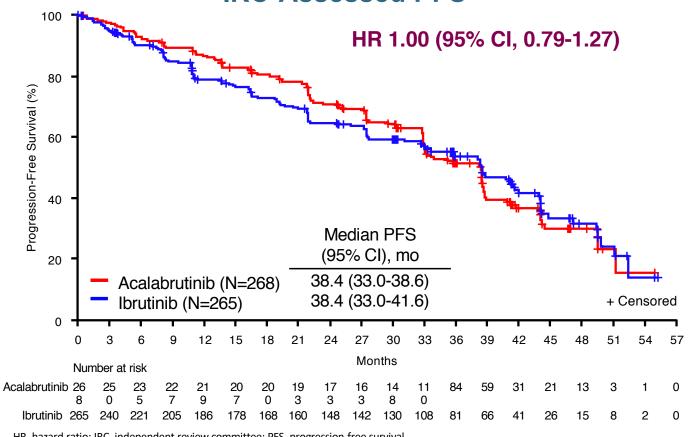


Tam et al., ASH 2021; abstract 396



Phase 3 ELEVATE RR study: Ibrutinib vs acalabrutinib





Median follow-up 41 months

| | Acalabrutinib (N=268) | Ibrutinib (N=265) |
|--|--|--|
| Events, n (%) Death PD | 143 (53.4) 22 (8.2) 121 (45.1) | 136 (51.3) 28 (10.6) 108 (40.8) |
| Censored, n (%) | 125 (46.6) | 129 (48.7) |
| PFS (95% CI), % 12 months 24 months 36 months | 86.7 (81.8-90.3) 70.9 (64.8-76.1) 51.4 (44.7-57.8) | 78.8 (73.1-83.4) 64.5 (58.1-70.2) 53.8 (47.0-60.1) |

Noninferiority achieved if the upper bound of the 95% Cl of HR is less than the prespecified NI margin of 1.429

HR, hazard ratio; IRC, independent review committee; PFS, progression-free survival.



Phase 3 ELEVATE RR study: Ibrutinib vs acalabrutinib

| | Any (| jrade | Grad | e ≥3 |
|-----------------------------|---------------|------------|---------------|-----------|
| | Acalabrutinib | Ibrutinib | Acalabrutinib | Ibrutinib |
| Events, n (%) | (n=266) | (n=263) | (n=266) | (n=263) |
| Diarrhea ^{a,b} | 92 (34.6) | 121 (46.0) | 3 (1.1) | 13 (4.9) |
| Headache ^{a,b} | 92 (34.6) | 53 (20.2) | 4 (1.5) | 0 |
| Cough ^a | 77 (28.9) | 56 (21.3) | 2 (0.8) | 1 (0.4) |
| URTI | 71 (26.7) | 65 (24.7) | 5 (1.9) | 1 (0.4) |
| Neutropenia | 56 (21.1) | 65 (24.7) | 52 (19.5) | 60 (22.8) |
| Pyrexia | 62 (23.3) | 50 (19.0) | 8 (3.0) | 2 (0.8) |
| Arthralgia ^a | 42 (15.8) | 60 (22.8) | 0 | 2 (0.8) |
| Hypertension ^{a,b} | 23 (8.6) | 60 (22.8) | 11 (4.1) | 23 (8.7) |
| Anemia | 58 (21.8) | 49 (18.6) | 31 (11.7) | 34 (12.9) |
| Fatigue ^b | 54 (20.3) | 44 (16.7) | 9 (3.4) | 0 |
| Nausea | 47 (17.7) | 49 (18.6) | 0 | 1 (0.4) |
| dary Contusiona | 31 (11.7) | 48 (18.3) | 0 | 1 (0.4) |
| int Pneumonia | 47 (17.7) | 43 (16.3) | 28 (10.5) | 23 (8.7) |
| Atrial fibrillationa | 24 (9.0) | 41 (15.6) | 12 (4.5) | 9 (3.4) |
| Thrombocytopenia | 40 (15.0) | 35 (13.3) | 26 (9.8) | 18 (6.8) |

Higher incidence in **bold red** for terms with statistical differences.

Among most common AEs above, grade 5 were reported in 5 (1.9%) acalabrutinib patients (pyrexia, n=1; pneumonia, n=4) and 4 (1.5%) ibrutinib patients (URTI, n=1; pneumonia, n=3).

^aBased on Barnard's exact test, two-sided P-value <0.05 without multiplicity adjustment for any grade events.

^bBased on Barnard's exact test, two-sided P-value <0.05 without multiplicity adjustment for grade ≥3 events.

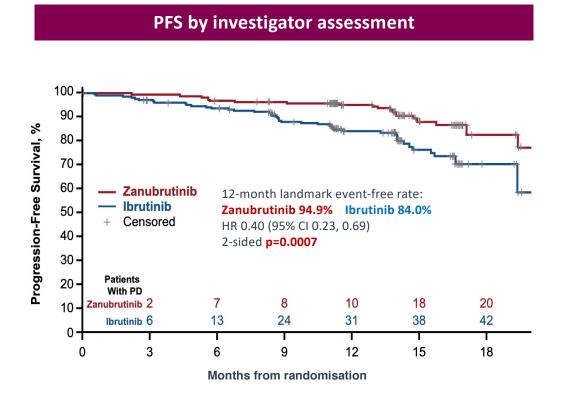
Includes AEs reported at ≥15% incidence (any grade) in either arm.

AE, adverse event; URTI, upper respiratory tract infection.



Phase 3 ALPINE study: Ibrutinib vs zanubrutinib in RR CLL

| ORR by investigator assessment | | | | | | |
|--|---|--|--|--|--|--|
| | Zanubrutinib (n=207), n (%) | lbrutinib (n=208), n (%) | | | | |
| Primary endpoint: ORR (PR+CR) | 162 (78.3) 95% CI: 72.0, 83.7 Superiority 2-sided with pre-specified | The second secon | | | | |
| CR/CRi | 4 (1.9) | 3 (1.4) | | | | |
| nPR ORR (PR- L+PR+CR) | 1 (0.5) 183 (88.4) | 0 169 (81.3) | | | | |
| PR-L | 21 (10.1) | 39 (18.8) | | | | |
| SD | 17 (8.2) | 28 (13.5) | | | | |
| PD | 1 (0.5) | 2 (1.0) | | | | |
| Discontinued or new therapy prior to 1 st assessment | 6 (2.9) | 9 (4.3) | | | | |
| | del(17p) (n=24), n (%) | del(17p) (n=26), n (%) | | | | |
| ORR (PR+CR) | 20 (83.3) | 14 (53.8) | | | | |



CR, complete response; CRi, CR with incomplete bone marrow recovery; nPR, nodular partial response; ORR, overall response rate; PD, progressive disease; PFS, progression-free survival; PR, partial response; PR-L, partial response with lymphocytosis; SD, stable disease

Phase 3 ALPINE study: AEs of Special Interest

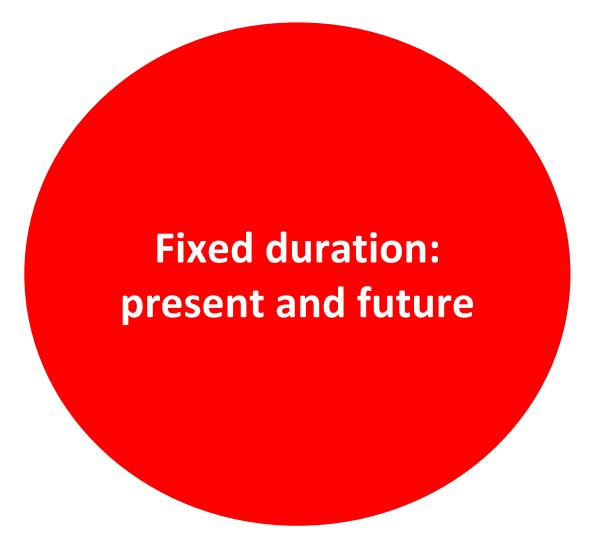
| Safety Analysis Population | Zanubrutinik | n=204), n (%) | Ibrutinib (n=207), n (%) | | | |
|---|----------------------|---------------------|--------------------------|--------------------|--|--|
| | Any Grade | Grade ≥3 | Any Grade | Grade ≥3 | | |
| Cardiac disorders ^a | 28 (13.7) | 5 (2.5) | 52 (25.1) | 14 (6.8) | | |
| Atrial fibrillation and flutter (key 2° endpoint) | 5 (2.5) | 2 (1.0) | 21 (10.1) | 4 (1.9) | | |
| Hemorrhage Major hemorrhage ^b | 73 (35.8) 6 (2.9) | 6 (2.9) 6 (2.9) | 75 (36.2) 8 (3.9) | 6 (2.9) 6 (2.9) | | |
| Hypertension | 34 (16.7) | 22 (10.8) | 34 (16.4) | 22 (10.6) | | |
| Infections | 122 (59.8) | 26 (12.7) | 131 (63.3) | 37 (17.9) | | |
| Neutropenia ^c | 58 (28.4) | 38 (18.6) | 45 (21.7) | 31 (15.0) | | |
| Thrombocytopeniac | 19 (9.3) | 7 (3.4) | 26 (12.6) | 7 (3.4) | | |
| Secondary primary malignancies Skin cancers | 17 (8.3) 7 (3.4) | 10 (4.9) 3 (1.5) | 13 (6.3) 10 (4.8) | 4 (1.9) 2 (1.0) | | |

AE, adverse events. All events are of any grade unless otherwise specified.

^a Cardiac disorders leading to treatment discontinuation: zanubrutinib 0 patients and ibrutinib 7 (3.4%) patients.

blncludes hemorrhages that were serious or grade ≥3 or CNS hemorrhages of all grades.

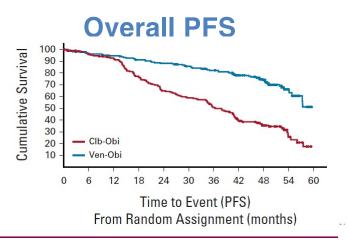
^c Pooled terms including neutropenia, neutrophil count decreased, and febrile neutropenia; thrombocytopenia and platelet count decreased.

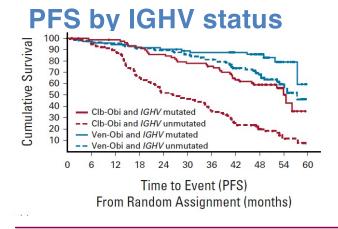




CLL14 Phase 3 trial: venetoclax + obinutuzumab^{1,2}

Median observation time = 52.4 months





| Cumulative Survival | 100 | - CIb-Ob CIb-Ob Ven-Ol | ii and no ii and TP! bi and no bi and TP | 53 deletion TP53 ab | errations on and/o | r mutations | on on | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | -\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\-\ | | <u>_</u> |
|---------------------|---------------------|------------------------------|---|------------------------|--------------------|-------------|-------|--|--|------|----------|
| | _ | - | 10 | 10 | 24 | 20 | 200 | 40 | 10 | F.4 | 00 |
| | 0 | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 |
| | Time to Event (PFS) | | | | | | | | | | |
| | | F | rom | Rand | dom | Assi | gnm | ent (| mon | ths) | |

PFS by TP53 status

| | Median PFS | 4-year PFS rate |
|---------|-------------------------------------|-----------------|
| Ven-Obi | NR | 74.0% |
| Clb-Obi | 36.4 months | 35.4% |
| | HR 0.33, 95% CI 0.25, 0.45 p<0.0001 | |

| | Median PFS | | Median PFS |
|--------------------------|-------------|-------------------------------|-------------|
| Ven-Obi & IGHV mutated | NR | Ven-Obi & no TP53 del/mutated | NR |
| Ven-Obi & IGHV unmutated | 57.3 months | Ven-Obi & TP53 del/mutated | 49.0 months |
| Clb-Obi & IGHV mutated | 54.5 months | Clb-Obi & no TP53 del/mutated | 38.9 months |
| Clb-Obi & IGHV unmutated | 26.9 months | Clb-Obi & TP53 del/mutated | 20.8 months |

CI, confidence interval; del, deletion; HR, hazard ratio; IGHV, immunoglobulin heavy chain; m, months; NR, not reached; Obi, obinutuzumab; PFS, progression-free survival; TP53, tumour protein p53; Ven, venetoclax



CLL14 Phase 3 trial: venetoclax + obinutuzumab

Most frequent grade ≥3 AEs

| | Venetoclax-obinutuzumab (N=212) | | Chlorambucil- obinutuzumab (N=214) | |
|---------------------------|------------------------------------|--------------------|--|--------------------|
| | During treatment | After treatment | During treatment | After treatment |
| Neutropenia | 51.9% | 4.0% | 47.2% | 1.9% |
| Thrombocytopenia | 13.7% | 0.5% | 15.0% | 0.0% |
| Anaemia | 7.5% | 1.5% | 6.1% | 0.5% |
| Febrile neutropenia | 4.2% | 1.0% | 3.3% | 0.5% |
| Leukopenia | 2.4% | 0.0% | 4.7% | 0.0% |
| Pneunomia | 3.3% | 3.0% | 2.8% | 1.4% |
| Infusion-related reaction | 9.0% | 0.0% | 9.8% | 0.5% |
| Tumour lysis syndrome | 1.4% | 0.0% | 3.3% | 0.0% |

AML, acute myeloid leukaemia; MDS, myelodysplastic syndromes; SPM, second primary cancers; T-NHL, T-cell non-Hodgkin lymphoma **Al-Sawaf O, et al. Oral presentation at EHA 2021 (Abstract S146)**

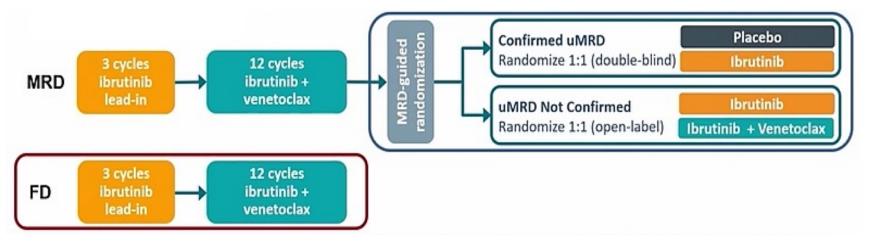
Second primary malignancies

| | Venetoclax-obinutuzumab (N=212) | Chlorambucil- obinutuzumab (N=214) |
|--|------------------------------------|--|
| Overall total number of events | 47 | 42 |
| Number of patients with at least one SPM | 40 (18.9%) | 30 (14.0%) |
| Non-melanoma skin cancer | 19 (8.9%) | 18 (8.4%) |
| Melanoma | 8 (3.7%) | 3 (1.4%) |
| Prostate cancer | 4 (1.8%) | 3 (1.4%) |
| Colon cancer | 2 (0.9%) | 2 (0.9%) |
| Lung cancer | 2 (0.9%) | 2 (0.9%) |
| Bladder cancer | 2 (0.9%) | 0 |
| Breast cancer | 2 (0.9%) | 0 |
| Hepatocellular carcinoma | 0 | 1 (0.5%) |
| Pancreatic cancer | 0 | 1 (0.5%) |
| Haematological cancer (MDS, AML, T-NHL) | 3 (1.4%) | 1 |
| Other | 2 (0.5%) | 3 (1.4%) |
| · | 2 (0.5%) | 3 (1.4%) |



CAPTIVATE Phase 2 trial: 1L ibrutinib + venetoclax

CAPTIVATE is an international, multicentre Phase 2 study evaluating 3 cycles of ibrutinib followed by 12 cycles of combined ibrutinib + venetoclax that comprises two cohorts: MRD and FD^{1,2}



uMRD rates with 12 cycles of combined ibrutinib + venetoclax³

| | Peripheral blood | Bone marrow |
|--|------------------------|------------------------|
| | (n=163) | (n=155) |
| Best response of uMRD in evaluable patients (95% CI) | 75% (69, 82) | 72% (65, 79) |

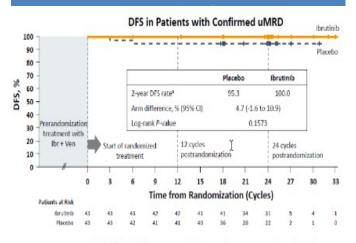
¹L, first-line; CI, confidence interval; FD, fixed duration; MRD, minimal residual disease; uMRD, undetectable MRD

^{1.} Ghia P, et al. Oral presentation at ASCO 2021 (Abstract 7501); 2. Allan JN, et al. Oral presentation at EHA 2021 (Abstract S147); 3. Wierda WG, et al. Oral presentation at iwCLL 2021 (Abstract 1084132)

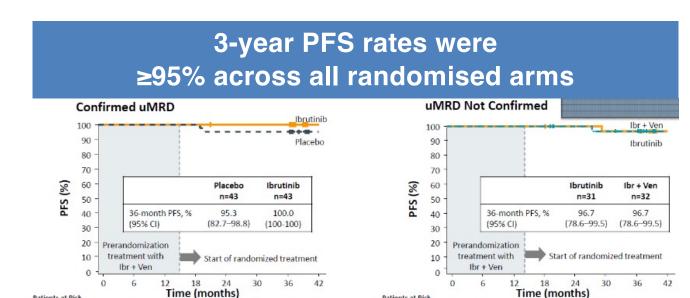
CAPTIVATE Phase 2 trial: DFS from the MRD cohort

Patients at Risk

No new DFS events occurred since primary



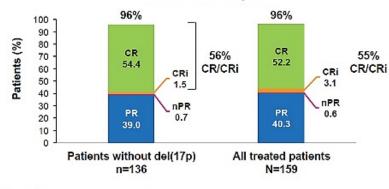
Median follow-up = 24 months postrandomization

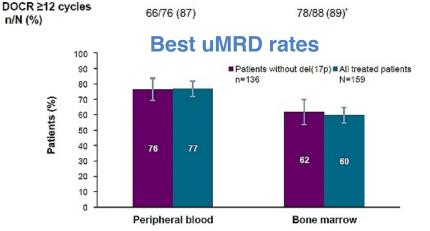


Median follow-up = 38 months

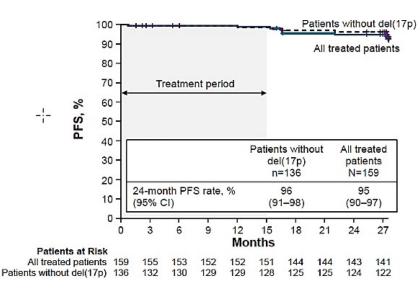
CAPTIVATE Phase 2 trial: primary analysis of the FD cohort

Best overall response





PFS



Estimated 24-month PFS rates

- Unmutated IGHV: 93% (95% CI 85, 97)
- Mutated IGHV: 97% (95% CI 88, 99)

CI, confidence interval; CR, complete response; CRi, CR with incomplete bone marrow recovery; DOCR, duration of CR; FD, fixed duration; IGHV, immunoglobulin heavy chain; MRD, minimal residual disease; uMRD, undetectable MRD; PFS, progression-free survival; PR, partial response

A glimpse into the future

Third generation of BTK-inhibitors

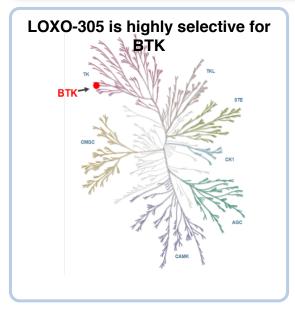
Relapsed/Refractory CLL

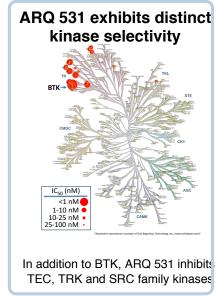
Third generation BTK inhibitors

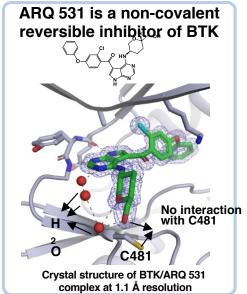
LOXO-305 Pirtobrutinib MK-1026 (ARQ531) Nemtabrutinib

- They bind REVERSIBLY to BTK

- They are DUAL INHIBITORS of both wild type and C481S mutated BTK

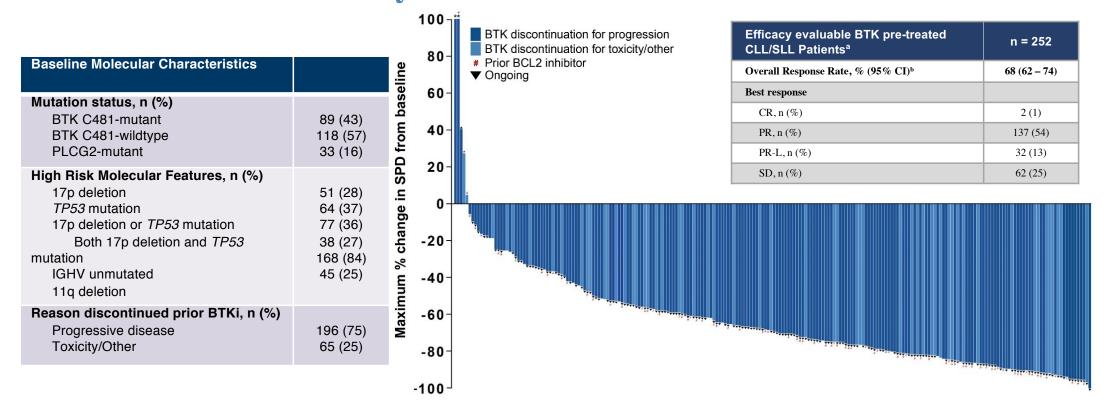








Phase 1/2 BRUIN study: Pirtobrutinib in RR CLL



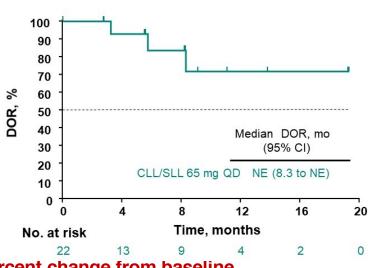
Efficacy was independent of BTK C481 mutation status, the reason for prior BTK discontinuation or other classes of prior therapy received

MK-1026 (ARQ531)

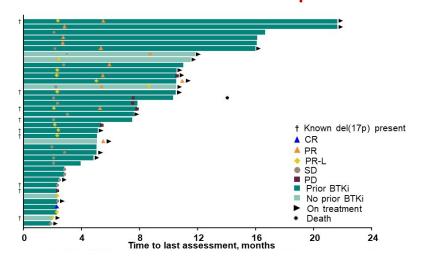
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| Characteristic, n (%) | CLL/SLL 65 mg QD N = 51 |
|--|----------------------------|
| Prior lines, median (range) | 4 (1-18) |
| Prior BTK inhibitor therapy | 43 (84.3) |
| ECOG PS 0 | 14 (27.5) |
| 1 | 32 (62.7) |
| 2 | 5 (9.8) |
| IGHV Unmutated | 30 (58.8) |
| Mutated | 2 (3.9) |
| Unknown | 19 (37.3) |
| Del (17p) Present | 12 (23.5) |
| Absent | 33 (64.7) |
| Missing | 6 (11.8) |
| BTK C481S Present | 32 (62.7) |
| Absent | 12 (23.5) |
| Unknown/Missing | 7 (13.7) |
| proposessi (face de resoltar el 200 mengalular sudan C | (1211) |

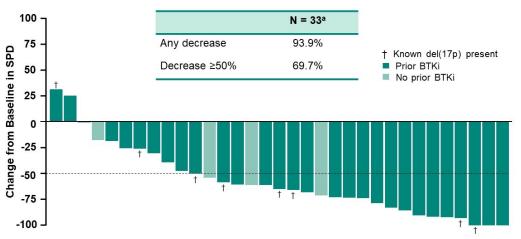
| 10 | |
|----------------|-----------------------------|
| n (%) [95% CI] | CLL/SLL 65 mg QD N = 38ª |
| ORR | 22 (57.9%) |
| | [40.8-73.6] |
| CR | 1 (2.6%) [0.0-13.8] |
| PR | 12 (31.6%) [17.5-48.6] |
| PR-L | 9 (23.7%) [11.4-40.2] |
| SD | 15 (39.5%) [24.0-5.6] |



Treatment duration response

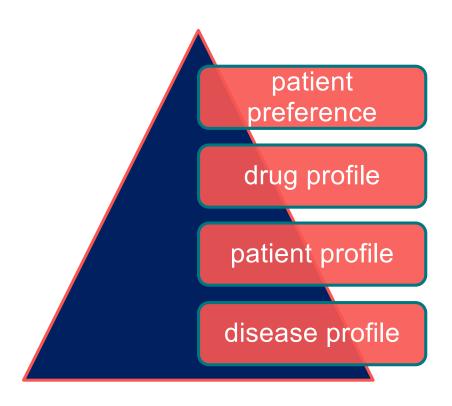


Percent change from baseline



Woyach et al., ASH 2021; abstract 392

Personalized management in CLL



Division of Experimental Oncology

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