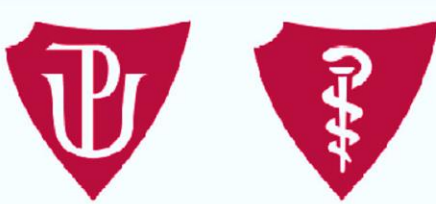


Real-World Outcomes of Idelalisib in Relapsed/Refractory CLL (2016–2025)

Peter Turcsanyi¹, R. Urbanová¹, A. Petráčková², Z. Kubová¹, Tomas Papajik¹, Eva Kriegová²

1.Department of Hemato-Oncology, Faculty of Medicine and Dentistry, Palacký University and University Hospital Olomouc, Olomouc, Czech Republic
2.Department of Immunology, Faculty of Medicine and Dentistry, Palacký University and University Hospital Olomouc, Olomouc



Lékařská fakulta
Univerzity Palackého
v Olomouci



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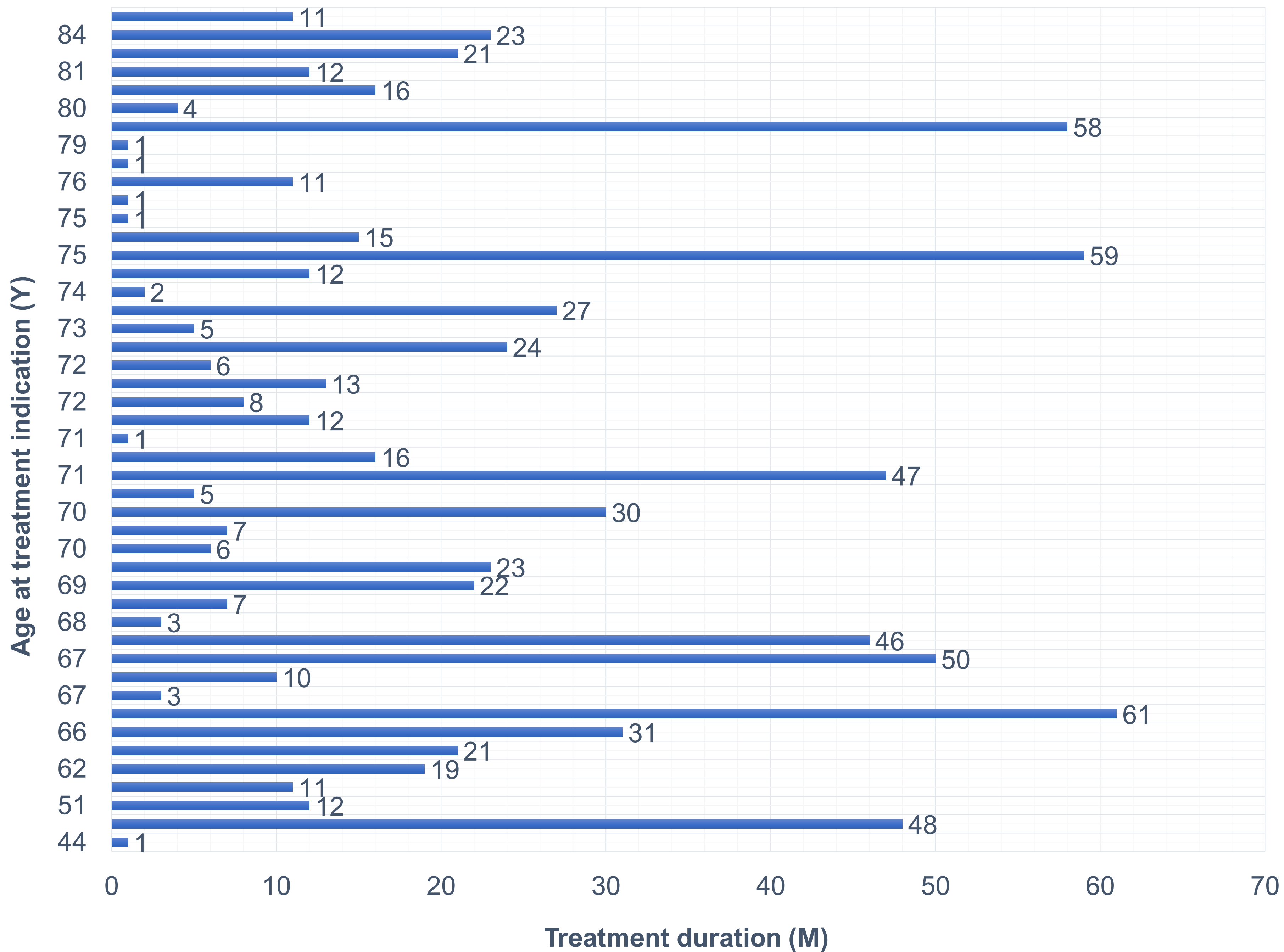
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INTRODUCTION

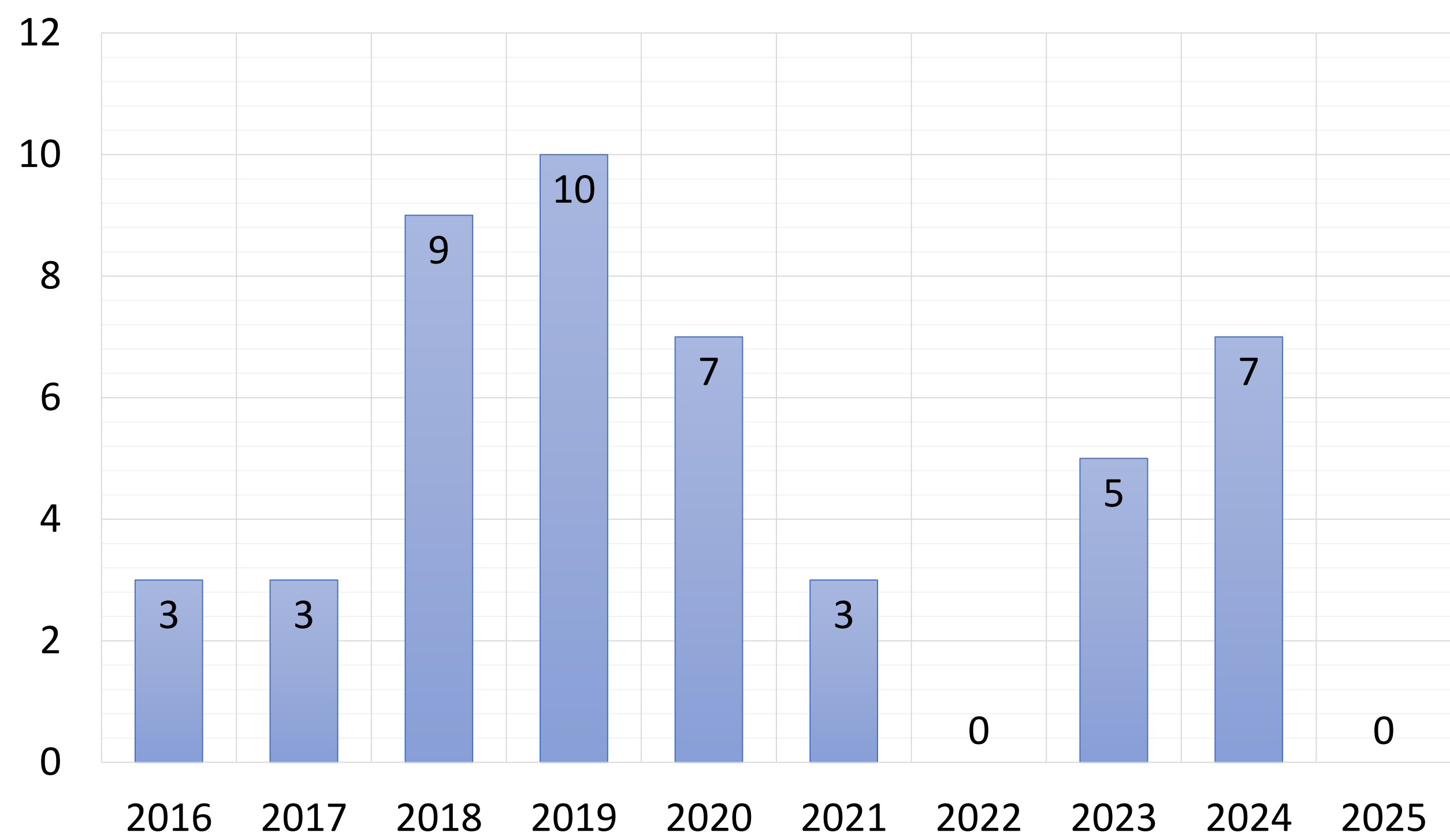
Despite major advances, therapeutic options after BTK and/or BCL2 inhibitor failure in CLL are limited, especially for TP53-aberrant disease. Idelalisib (PI3K δ) remains a salvage option, but real-world durability is challenged by toxicity. **We report a single-center experience (2016–2025) and quantify time on idelalisib and reasons for discontinuation, including results in TP53-aberrant and previously BTKi/BCL2-treated patients.**

RESULTS

Treatment duration corelated with age of initiation



Frequency of patients treated at the center over time



CONCLUSION

- Idelalisib demonstrated clinical activity in relapsed/refractory CLL, including patients with high-risk features (del17p/p53).
- Treatment was limited by adverse events, most commonly colitis and infections, leading to discontinuation in a substantial proportion of patients.
- A subset of patients achieved durable benefit, with some continuing treatment beyond 40 months.
- Subsequent therapies after idelalisib failure (venetoclax, BTKi) showed meaningful efficacy. Idelalisib also retained activity in heavily pretreated patients after bcl2/BTKi failure, with a 50% response rate.

PATIENTS AND CASES DESCRIPTION

- We retrospectively reviewed **46 patients with R/R CLL** treated with idelalisib (\pm rituximab) between 2016 and 2025 at the Hemato-Oncology Clinic, University Hospital Olomouc.
- Median age was 71 years, range: 44–84.
- IGHV mutation status was unmutated in 83% (33 of 40 tested).
- TP53 mutation and/or del(17p) was detected in 37% (17/46).
- Most patients were heavily pretreated, with a median of 3 prior therapy lines.

Parameter	Findings
Median treatment duration (all)	17.9 months (0.5-61)
del17p/p53 subgroup	20.1 months (1-58)
Treatment discontinued (42 pts)	20 PD (4RT), median 19.6 months (1-50) 14AE, median 8 months (1-24) 1 second malignancy
Ongoing treatment	4 pts, median 40.2 months
Adverse events (46%)	Colitis 26% (12) Infections 9% (5) Hepatopathy 6% (3) Pneumonitis 2% (1) Fatal: 1 COVID, 1 hepatitis/MODS
Therapy after idelalisib failure	Venetoclax (15 pts), ORR 60% Ibrutinib (2pts), PD
Idelalisib after bcl2/BTKi failure	10 pts (7 double refractory), ORR 50%, median 8.1 months (1-21)