

# Abstract ID 1550759: Efficacy and toxicity of ibrutinib in CLL - Croatian experience.

# A non-interventional, real world study of KroHem



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### Introduction

Ibrutinib has revolutionized the treatment of CLL. Despite being a targeted agent it causes off-target toxicities, most notably cardiac and hemorrhagic. Factors affecting the risk of adverse outcomes are incompletely understood.

### Aim

Evaluate the efficacy and toxicity of ibrutinib treatment and risk factors for adverse outcomes.

### Patients and methods

We retrospectively collected data on 436 patients who started ibrutinib for CLL between 2015 and 2021.

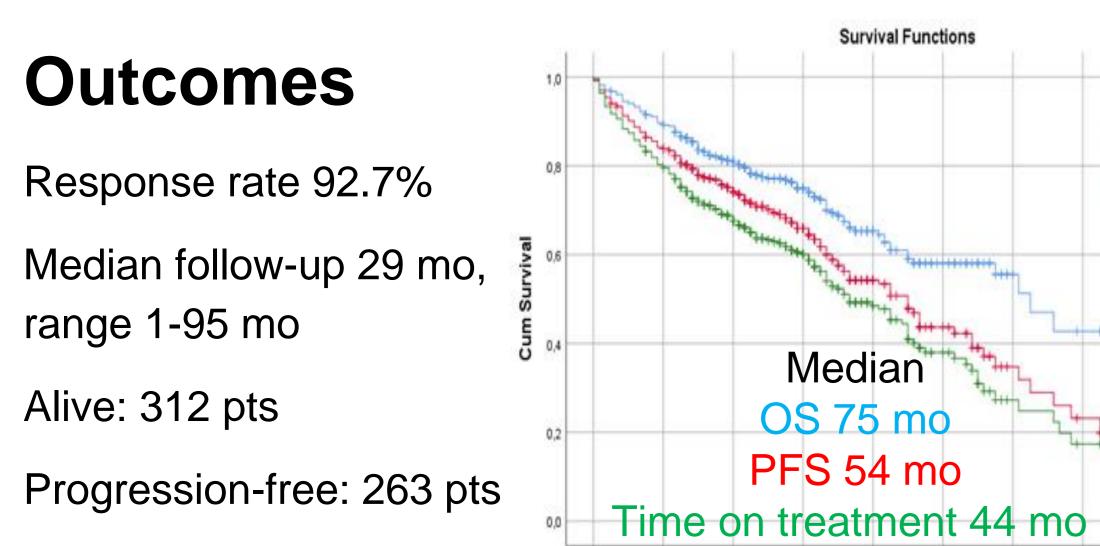
#### Patient characteristics

Characteristic	N (%)
Gender M/F	268 (61.5%) / 168 (38.5%)
Age (median/range)	68 y / 36-87 y
Binet stage (A/B/C)*	46 (10.6%) / 209 (43.3%) / 176 (40.6%)
FISH: not done normal del 11 +12 del 13 del 17	85 112 (31.0%) 49 (13.6%) 22 (6.1%) 62 (17.2%) 116 (32.1%)
IgHv mutational status: not done mutated / unmutated	378 10 (17%) / 48 (83%)
Treatment line: 1 <sup>st</sup> 2 <sup>nd</sup> ≥3 <sup>rd</sup> / median, range	216 (49.5%) 116 (26.6%) 104 (23.9%) / 3, 3-11
Pretreatment cardiac consultation (yes / no)**	132 (30.3%) / 303 (69.7%)
History or pretreatment ECG with cardiac arrhythmia (yes / no)**	54 (12.4%) / 381 (87.6%)
Pretreatment arterial hypertension (yes / no)	223 (51.1%) / 213 (48.9%)

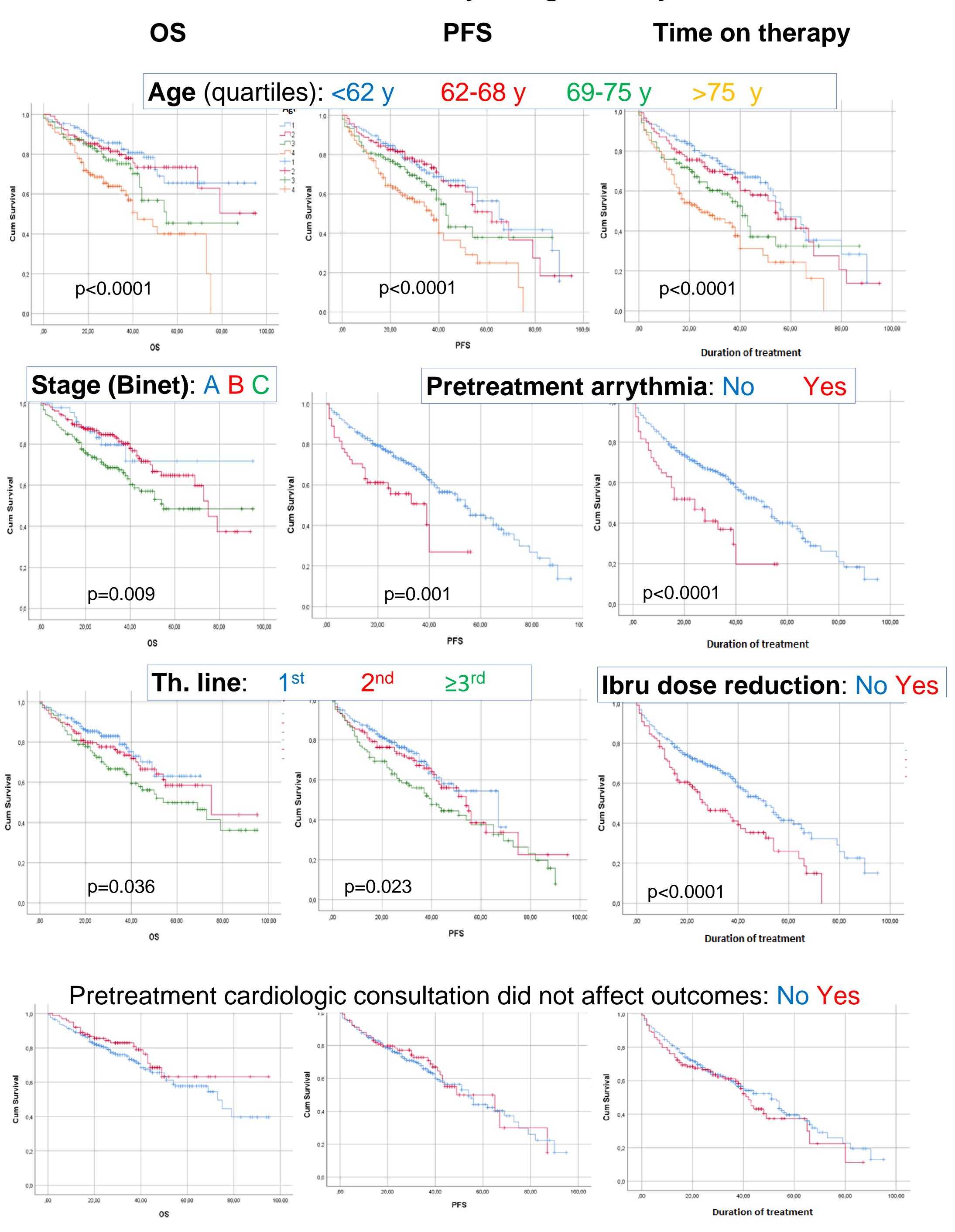
<sup>\*</sup>unknown for 3 patients

\*\*unknown for 1 patient

On therapy: 233 pts



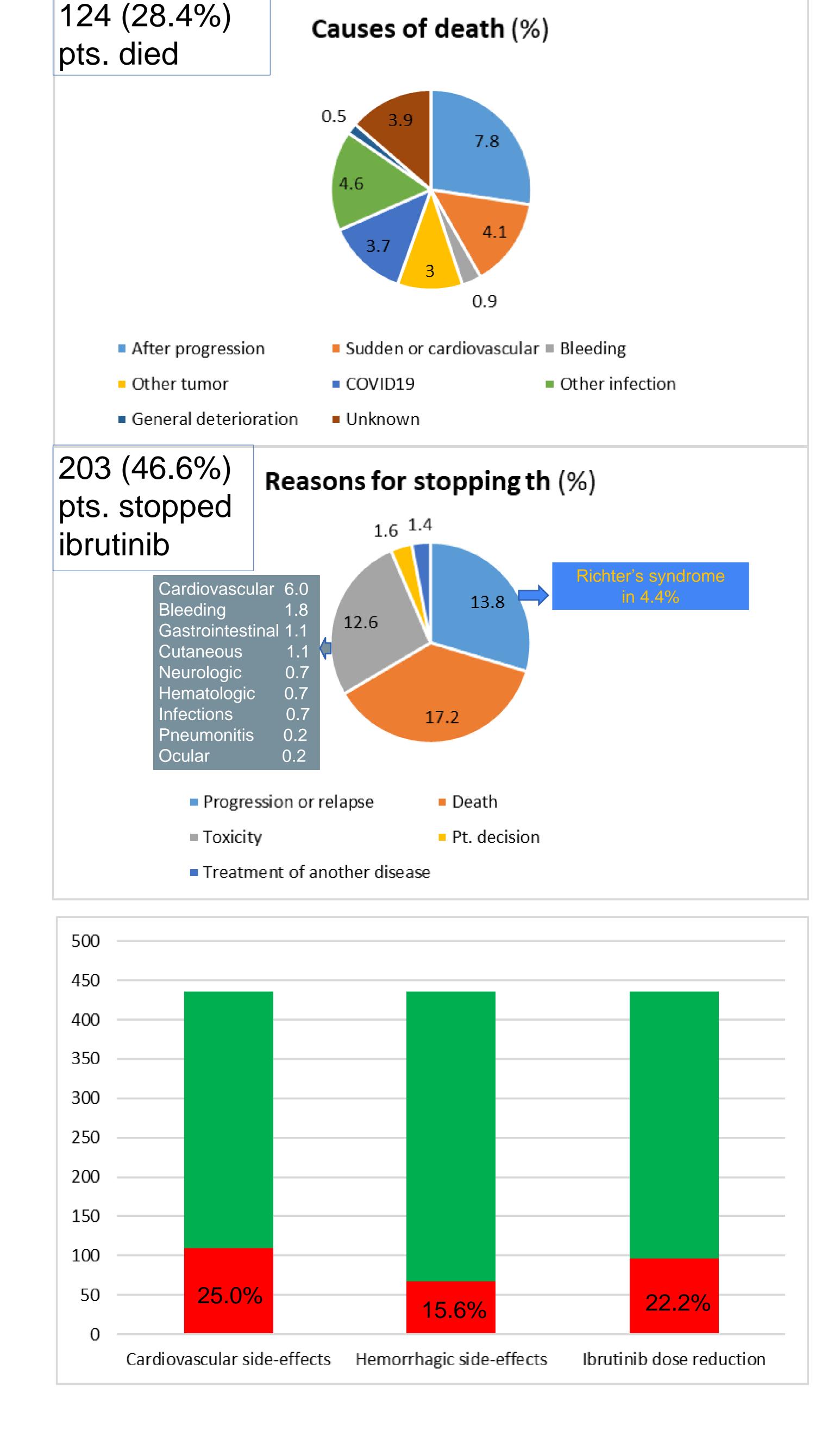
## Factors in multivariate analysis significantly related to:



Sex, FISH and presence of arterial hypertension were not independently significantly related to any of these outcomes.

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## **Toxicity**



## Conclusions

Our analysis confirms the efficacy of ibrutinib in treatment of CLL. Patients with cardiac arrhythmias are at an increased risk of having to stop treatment early.

Cca. 4% die of cardiovascular side effects and additional 6% have to stop ibrutinib for same reasons. Routine pretreatment cardiologic consultation is insufficient to reduce this risk.