Abstract ID:1550829 Frequent monitoring in chronic lymphocytic leukemia clinical trials: what is the true value?

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Introduction

- Industry-initiated clinical trial protocols require frequent:
 - Admissions
 - Blood analyses
 - Computerized tomography (CT)
- The value of intense monitoring has not been systematically analyzed
- It is in bright contrast to recommendations by iwCLL guidelines

Methods

- Patients who participated in industry-initiated clinical trials were included
- Descriptive analyses were performed on number of admissions, blood tests and CT examinations
- Patients served as their own controls and were analyzed twice; once according to the study protocol and once hypothetically according to iwCLL guidelines
- Time to response (TTR), time to progression (TTP) and objective response rate (ORR) was compared

Results

- 42 patients with CLL from 7 industry-initiated trials at one centre were included
- Treatment start between February 2013 and December 2020
- Median follow-up time was 38 months (range 2-108)
- Median total radiation dose was 100 mSv (range 16-22) to 136–187) in the protocol group
- ORR was 90% per protocol and 93% when analysed according to iwCLL guidelines (ns)
- The median TTR was 5.6 months (per protocol) versus 4.6 months (per iwCLL) (Fig 1)
- TTP was almost identical (Fig 2)

Table 1. Baseline characteristics

		Number (%)		
Median age at treatment start (range)		73 (52–87)		
Gender				
	Male	25 (60)		
	Female	17 (40)		
ECOG				
	0	23 (55)		
	1	16 (38)		
	2	3 (7)		
Genetics				
	17p/TP53	12 (29)		
Median number of prior treatments				
	First-line	18 (43)		
	Second-line	14 (33)		
	Later-line	10 (24)		
Type of treatment				
	Zanubrutinib	16 (38)		
	Ibrutinib	10 (24)		
	R-bendamustine	5 (12)		
	O-ibrutinib	4 (10)		
	R-bendamustine + ibrutinib	3 (7)		
	O-idelalisib	2 (5)		
	Acalabrutinib	1(2)		
	O-leukeran	1(2)		

Table 2. Treatment follow-up

	Protocol	iwCLL	p-value
Admissions, median (range)	18 (3–34)	10 (1–18)	p<0.001
Blood tests, median (range)	30 (3–73)	18 (1–45)	p<0.001
CT examinations, median (range)	10 (2–17)	Ο	p<0.001
Number of bone marrow biopsies, median (range)	1(0-4)	0 (0-0)	ns

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Conclusion

- tests and CT examinations
- be limited
- guidelines
- and iwCLL guidelines is warranted
- centers are warranted

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Clinical trials results in extra admissions, blood

The value of such intense monitoring appears to

For many patients, the cumulative radiation dose from CT examinations was higher than recommended in recent national protection

Harmonization between clinical trial protocols

Extended analyses on more patients and

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