

Characteristics and Reporting of Seamless Early-Phase Trials in Oncology – A Cross-Sectional Analysis of Trials Registered on ClinicalTrials.gov



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Background

Seamless trials often combine two distinct phases of drug development, allowing for the concurrent assessment of objectives traditionally addressed in separate trials. This is a possible way to accelerate drug development [1, 2].

The growing importance of seamless trials can be seen in oncology research, especially in the early stages of drug development. Clinical trial registries, such as the ClinicalTrials.gov database, should keep pace with evolving clinical trial models to ensure a comprehensive and accurate representation of trial characteristics and results.

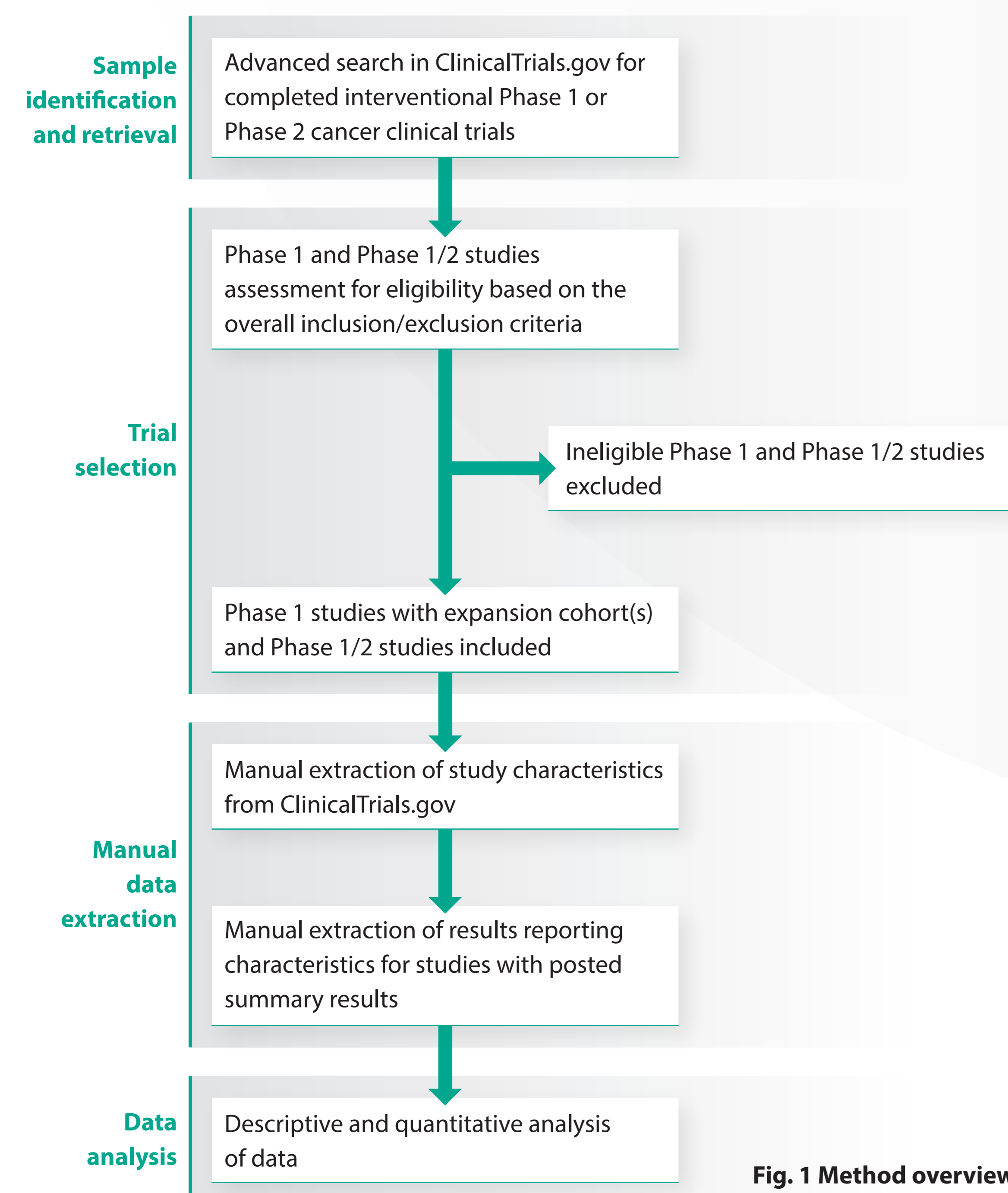
Objectives

Our aims are:

- 1) examine the basic characteristics of seamless early-phase oncology trials registered on the ClinicalTrials.gov registry.
- 2) determine results reporting rates and identify factors associated with results reporting.

Methods

We define seamless early-phase trials as Phase 1/2 trials or Phase 1 trials with planned expansion cohort(s) [3]. The method overview is presented in Figure 1.



Results

We analysed 1051 early-phase seamless oncology trials completed between 2016 and 2020 (see Figure 2).

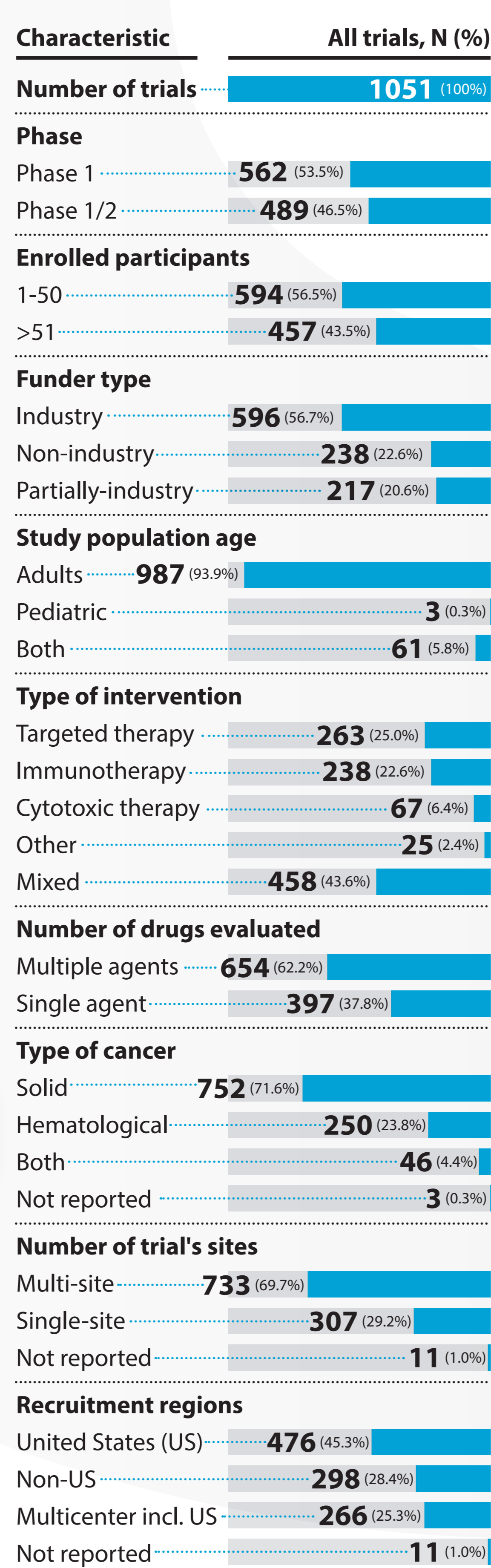


Fig. 2 Characteristics of clinical trials

We found that only 365 of 1051 trials (34.7%) reported results on the ClinicalTrials.gov. The results reporting rates for 24 months was 24.0%. The overall reporting rate for Phase 1/2 studies was more than three times higher than for seamless Phase 1 studies.

Our analysis revealed an additional problem

Study characteristics and results reports on ClinicalTrials.gov are often available for the entire trial, rather than for specific stages of a seamless trial. This causes difficulty in accurately tracing the trial process.

Conclusion

Our study provides cross-sectional data on seamless early-phase oncology trials registered on the ClinicalTrials.gov registry. In addition, we found that ClinicalTrials.gov should be optimized to enable easy tracking of the entire trial process and to accommodate the complexity of seamless trial design.

References

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Acknowledgments

The authors thank Phyllis Zych Budka for language editing and Pro Science for poster design assistance.

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Questions? Ask me

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Funding

This study was funded by the National Science Center, Poland, UMO-2021/41/B/HS1/01123 (www.ncn.gov.pl).



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Scan to view the study protocol

