



Recruitment rate stochasticity at the design stage of a clinical trial

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Why recruitment rates?

- Timely recruitment vital to the success of a clinical trial
- Inadequate number of subjects → lack of power
- Recruitment period too long → competing treatments
- Recruitment of patients varies at each stage
- [Carter \(2004\)](#)



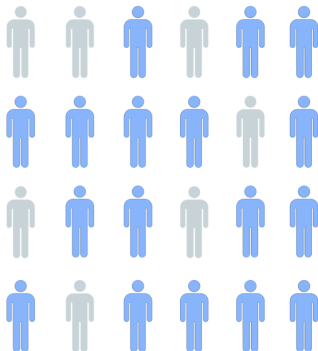
Target Population



Target Population

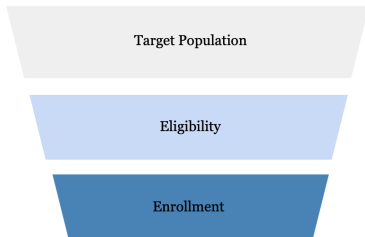
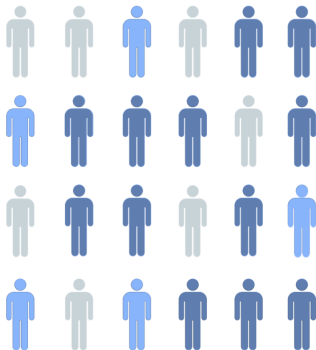


Eligibility

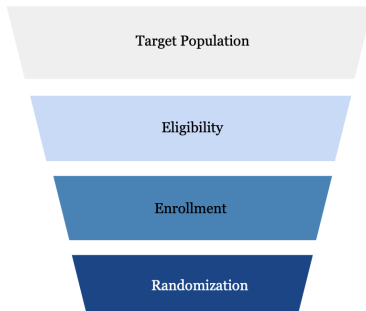
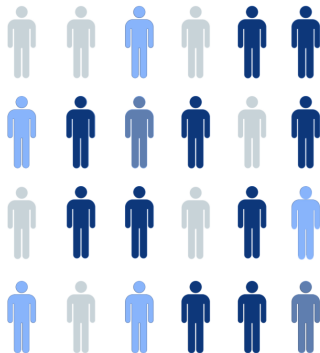




Enrollment

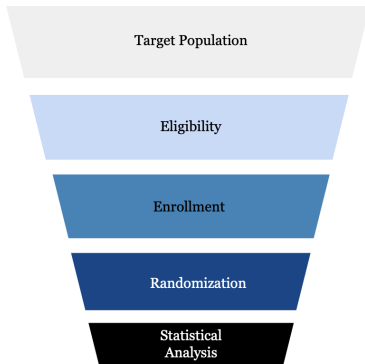
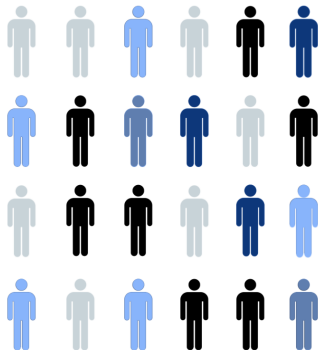


Randomization

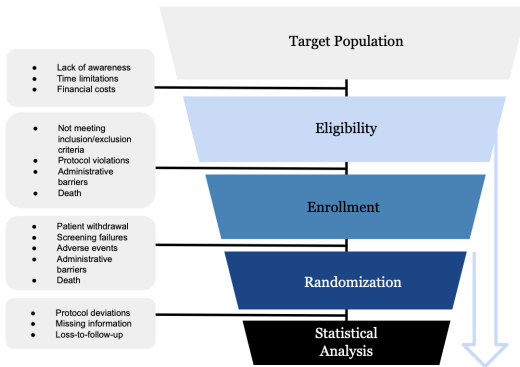




Statistical Analysis



Patient Attrition





Shrunk Slide 1



Shrunk slide 2



Results



Conclusion



Next steps



References

Carter, R. E. (2004). Application of stochastic processes to participant recruitment in clinical trials. *Controlled clinical trials*, 25(5):429–436.