Diabetic retinopathy
Optimization of Brolucizumab phase II clinical program

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Background

- Clinical trials are costly ($50,000 per patient in oncology) and time consuming
- Often carried out with delays and cost overruns
    - screening failure
    - under recruitment
    - drop out
- Clinical trial data of varying quality
    - lack of screening oversight (low screening failure rate)
    - trial patients not representative of target population (high screening failure rate)
    - departure from trial protocol

Clinical program optimization problem

Identify physicians and trial sites likely to provide

- high quality trial data
- complying with budget
- on time

Clinical program optimization problem (cont')

Best predictor of performance in the future is performance in the past.

Data analytics objectives:

- Identify *performance variables* in database
- Look for physicians and trial sites best in terms of those variables

Data at hand

Method

Result

Conclusion

Supplementary material

THANK YOU!