# Understanding Clinical Collaborations Through Federated Classifier Selection

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Let's examine the advantages and obstacles of training an ML model on multiple clinical centers' data.

- The advantages relate to the size of the data.
  - Larger sample sizes.
  - Increased availability of rare and new diseases.
  - Potential to enhance generalizability.
- The obstacles relate to accessing the data and deriving utility from it.
  - Limits on data sharing.
  - Population level differences may hurt model performance.
  - Overemphasis on predictive power.
    - We want to explain whether a decision is being made based mostly on external knowledge.

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Limits on data sharing.	Reuses classifiers trained in outside institutions, exchanging their associated parameters.
Population heterogeneity.	Adapts to the data distribution of each clinical center.
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Thank you!

