Considerations for the Use of Next Generation Sequencing in the TB Laboratory: Part 2

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To Sequence or Not to Sequence?

Should my lab sequence for TB?
Why sequence for TB?

What questions can a TB sequence answer?

Cluster Identification

Drug Resistance
Why you may (or may not) sequence for cluster identification?

Things to Consider:

• Disease burden?
• Sequencing capacity?
• Ability to run with other pathogens?
• Faster turnaround time?
• Can we analyze the data?
• Do we have staff that can interpret the data?
• Cost
Why you may (or may not) sequence for the detection of drug resistance mechanisms?

Things to Consider:

- Disease burden?
- Sequencing capacity?
- Ability to run with other pathogens?
- Faster turnaround time?
- Can we analyze the data?
- Do we have staff that can interpret the data?
- Cost
- Do we get better/more information?
- Validation
More Considerations...

• National Approach/ Regional Labs
• Are there benefits to sequencing prospectively versus retrospectively?
• Does that answer change if you’re sequencing to identify drug resistance mechanisms?
• What best serves the patient population?
Thank You!