

AGENDA

- Call to order and introductions
- Approve minutes from last meeting
- Draft workplan oral presentation
- Questions and comments from the public
- Final recommendation of Expert Science Panel members – Closed Session

Ceriodaphnia dubia Study Draft Workplan

Stakeholder Committee Meeting #2
January 20, 2021



Process for developing the study workplan

- Oral presentation to Stakeholder Committee
- Oral presentation to the Expert Science Panel
- Written workplan to Stakeholder Committee
- Written workplan to the Expert Science Panel
 - Expert Panel provides final approval

Goal for today:
Review and refine the workplan concepts for presentation to the Expert Science Panel

Overview of scope of work

Task 1- Identify potential sources of variability within and among laboratories

Task 2- For potentially largest sources of variability, optimize test method and QA parameters to minimize variability

Task 3- Evaluate efficacy of test method and QA refinements

- Interlaboratory comparison exercise with State-accredited laboratories

Task 1- Options for identifying sources of variability

- Meta-analyses of laboratory method information
- Analysis of historical data collated from participating laboratories
- Laboratory visits for details on implementation of lab protocols
- Laboratory analyses of split samples

Laboratory method information

- Standard operating procedures (SOPs)
- Quality assurance plans (QAPs)
- Technician experience/Training logs
- Queries or surveys

Lab meta-data factors to focus on

- Culturing and Brood stock
- Dilution water
- Food and feeding

Some example details

Dilution water

- Recipe
- Supplies vendor
- Source water (e.g. DI, Double DI, Milli-Q, etc..)
- Shelf-time
- Water quality data (hardness, pH)

Food

- YCT recipe
- Vendor
- Algal culture protocols
- Shelf-time

Culturing

- Origin of brood stock
- Frequency of restart/turnover
- Frequency of culture failure
- Culture sheet observations

Task 1- Options for identifying sources of variability

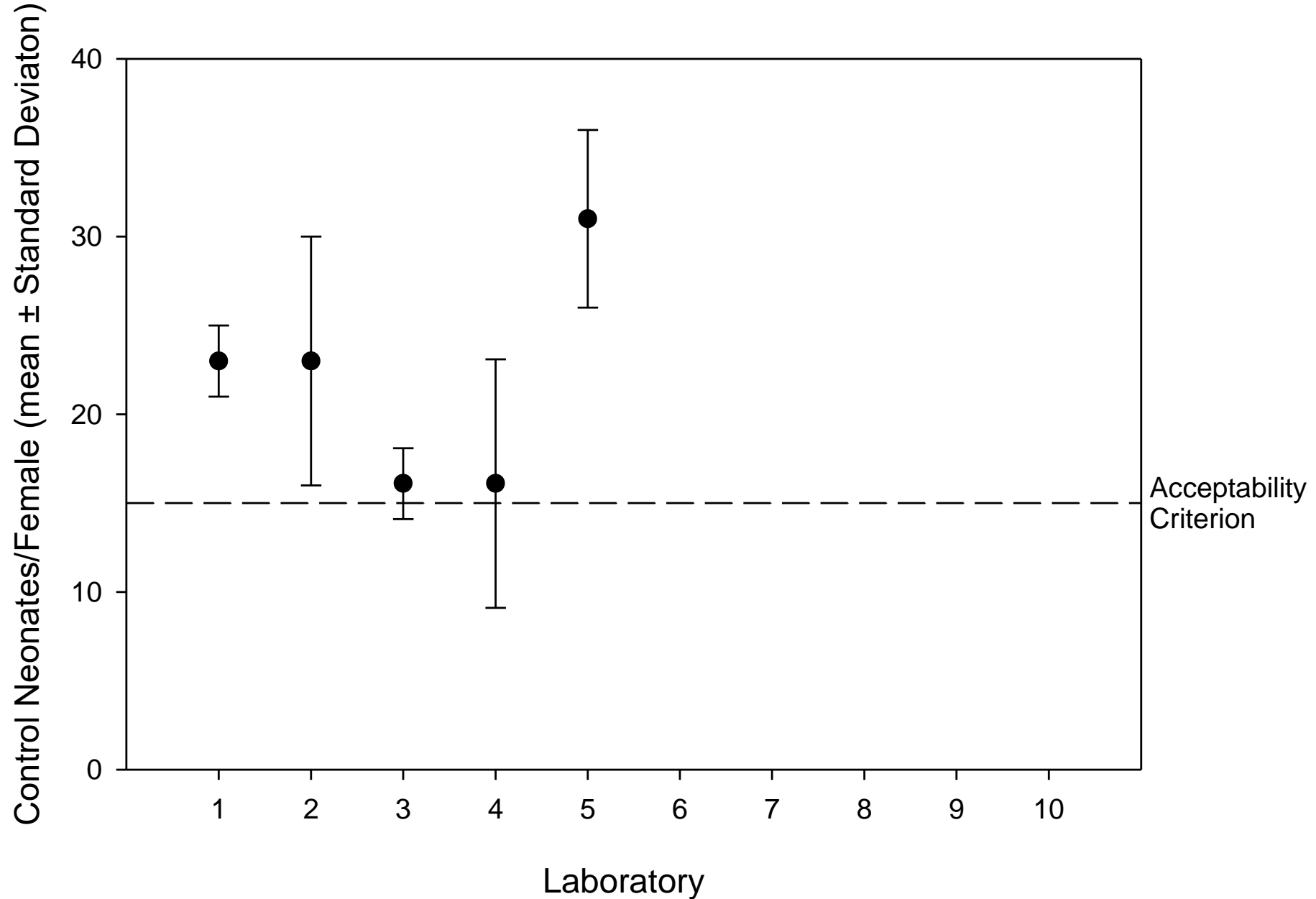
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Historical testing data factors to evaluate

- Control variability
- # of neonates/female
- # of broods/female
- How to deal with 4th broods
- Time to reproduction
- Frequency of test failures
- Water quality parameters

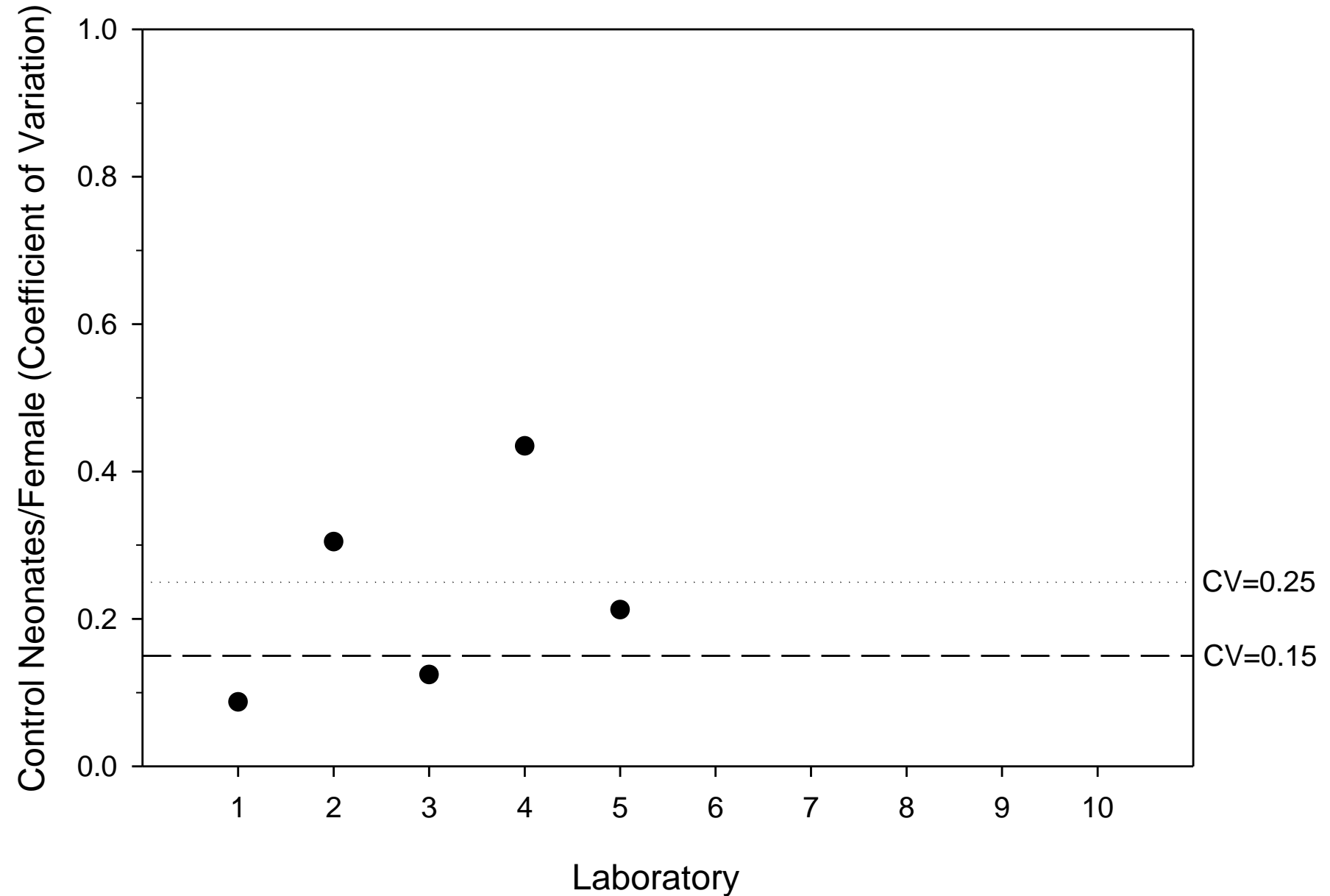
Example Data Analysis: Identifying Variability Across Labs

- Example only – data not real!
- Control data
- Mean and SD both important



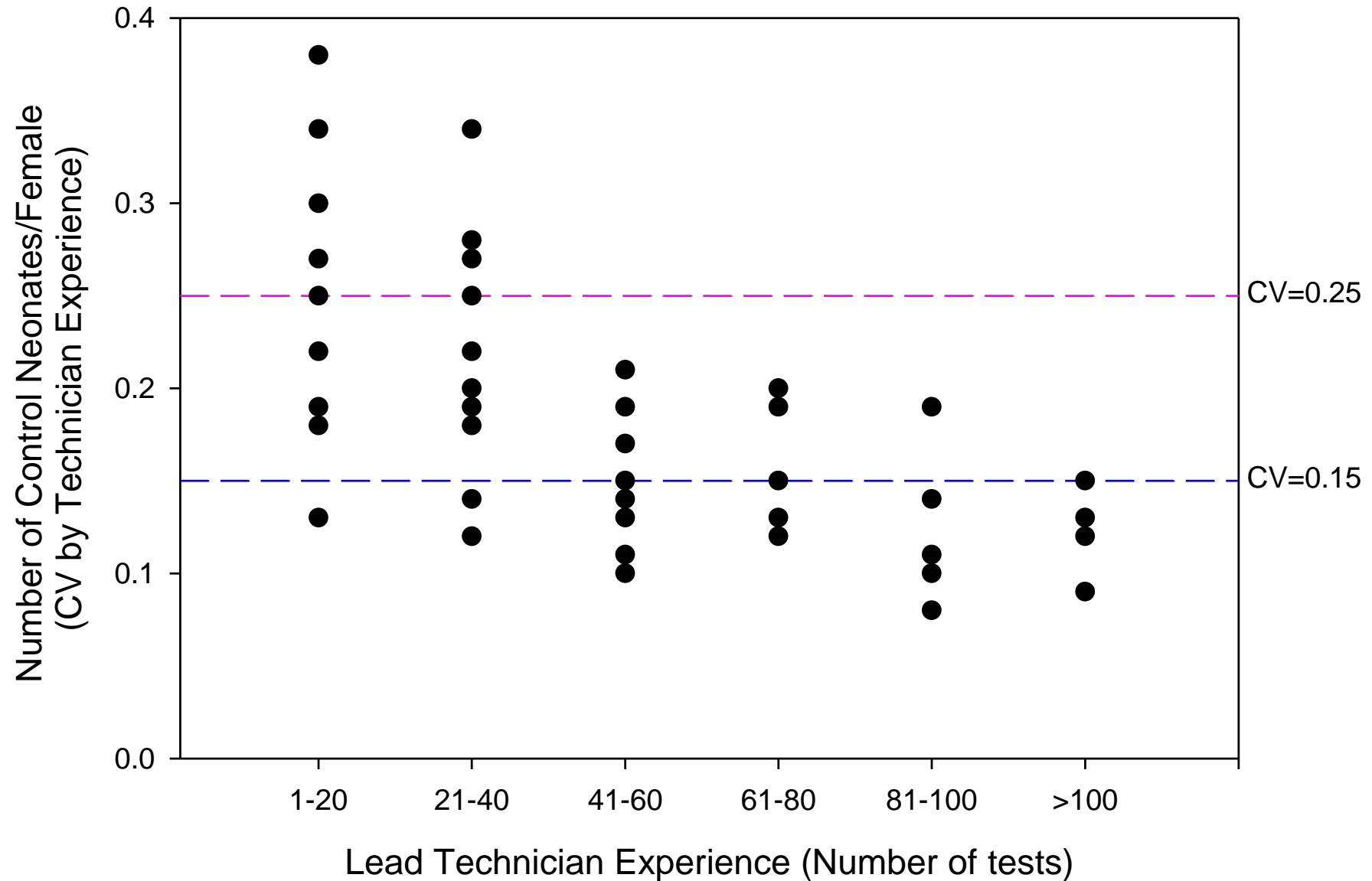
Example Data Analysis: Identifying Variability Across Labs

- Example only – data not real!
- Control CV incorporates both Mean and SD



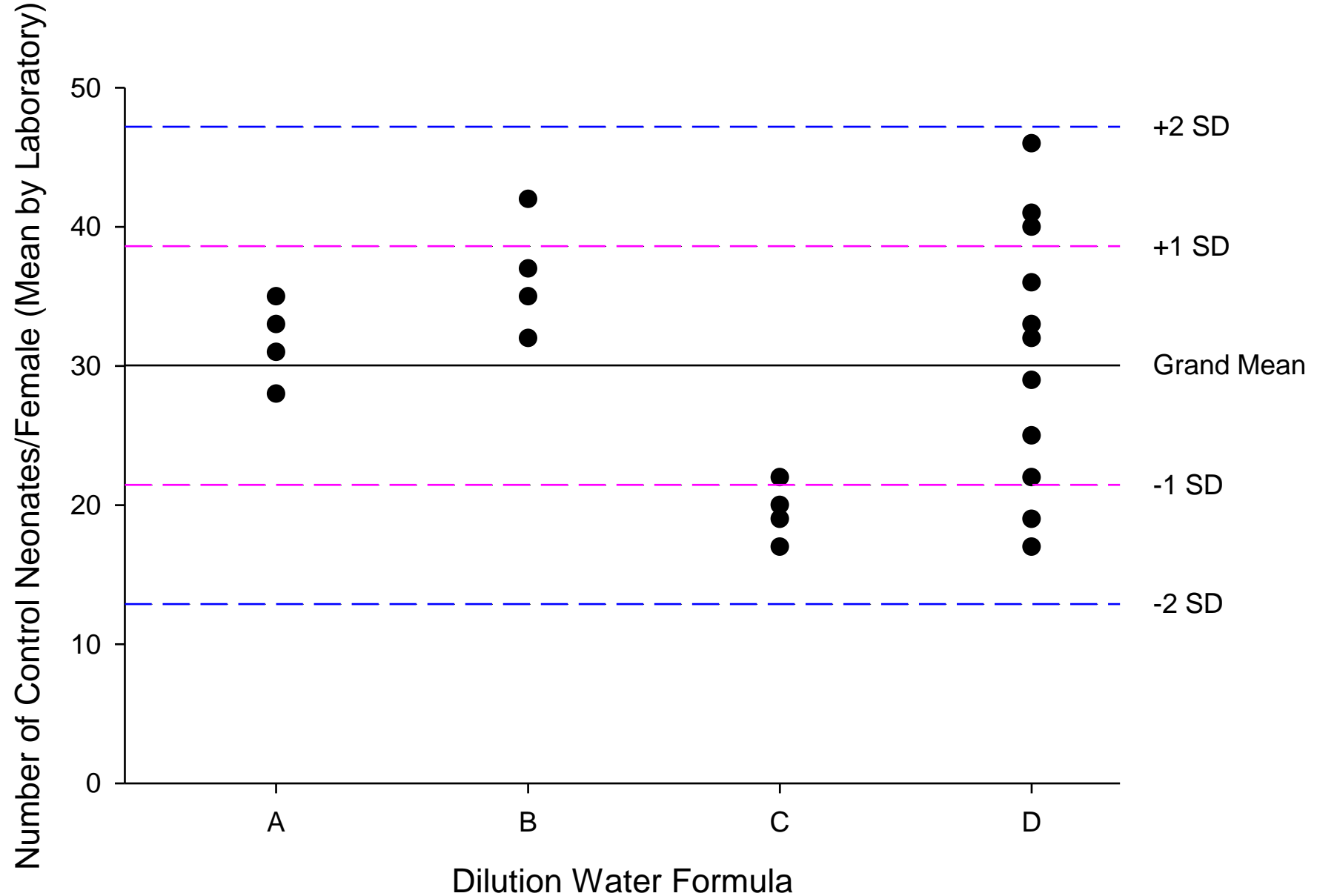
Example Data Analysis: Identifying Variability Across Technician Experience

- Example only – data not real!
- Control CV based on number of tests run



Example Data Analysis: Identifying Variability Across Dilution Water

- Example only – data not real!
- Each symbol is a different lab



Some data issues to resolve

- How many tests?
- How long a time span?
- What types of samples?
- CETIS Reports or a different format?

Task 1- Options for identifying sources of variability

- Meta-analyses of laboratory method information
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Laboratory visit information

- Lab techniques relative to SOP/QAP
- Training and experience verification
- Test set-up and execution

Split sample analysis

- Sample selection must be specific to factors we want to evaluate
- Specific factors will likely become apparent after the lab information and historical data analysis
- Only utilize this option if additional resources become available

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