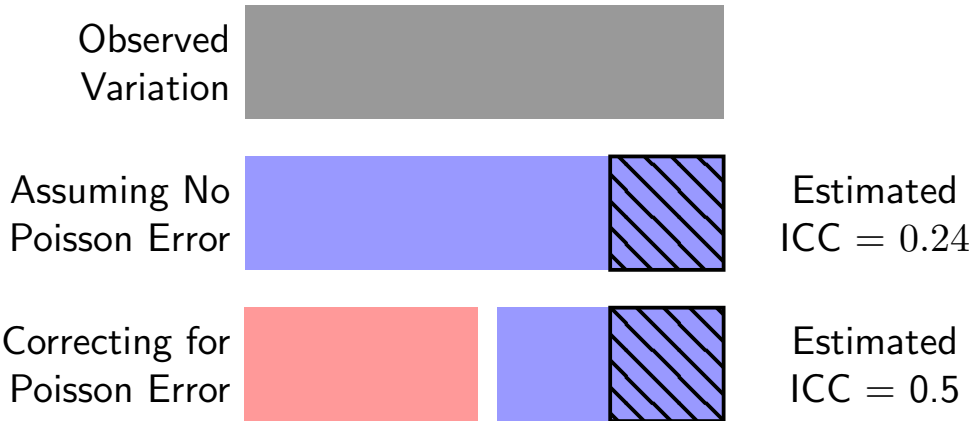**Example Population**
Provisioning Rate = 10 visits/hour, Expected CV = 0.3, Repeatability (ICC) = 0.5

Study A - Observation period = 120 mins, Mean number of observed visits = 20

Observed Variation

Assuming No Poisson Error — Estimated ICC = 0.32

Correcting for Poisson Error — Estimated ICC = 0.5

Study B - Observation period = 60 mins, Mean number of observed visits = 10

Observed Variation

Assuming No Poisson Error — Estimated ICC = 0.24

Correcting for Poisson Error — Estimated ICC = 0.5

Study C - Observation period = 30 mins, Mean number of observed visits = 5

Observed Variation

Assuming No Poisson Error — Estimated ICC = 0.16

Correcting for Poisson Error — Estimated ICC = 0.5

Total Observed Variance

'Explainable' Variation

Poisson distributed error

Variance due to between individual differences

Total Variance