Validation period:_____

CDI Validation – Form C

CDI Validation Findings

Display validation results using 2x2 tables to demonstrate both the accuracy and completeness of CDI surveillance and reporting.

CDI Example

Positive *C difficile* tests reviewed for validation = **65**		Validation Review ("Gold Standard" or truth)	
		CDI	Not CDI
Identified and Reported by Hospital	CDI **55**	54	**1** Reported in error
	Not CDI **10**	**4** Missed	6

Positive Predictive Value (PPV) =

54 True positives / 54 True pos. + 1 False pos. X 100

98%

Sensitivity =

54 True positives / 54 True pos. + 4 False neg. X 100

93%

Specificity =

6 True negatives / 6 True neg. + 1 False pos. X 100

86%

Interpretation:

From the 65 positive *C difficile* tests reviewed, the validation reviewers found **5** disparities compared to the hospital surveillance report.

The hospital had identified and reported 55 CDI. The validation reviewers determined only 54 should have been reported; **1** did not meet the surveillance criteria.

The calculated **positive predictive value (PPV)** reveals that what was reported as CDI meets the CDI LabID criteria 98% of the time.

For the other 10 positive *C difficile tests* reviewed in which routine hospital surveillance did not report CDI, the validation reviewers identified **4** additional CDI.

The calculated **sensitivity** reveals routine hospital surveillance is identifying 93% of the CDI occurring.

The calculated **specificity** reveals hospital routine surveillance accurately "rules out" CDI 86% of the time.

Data Validation for CDI

Hospital: _____

Surveillance time period: _____

From *C difficile* Review, Form B

positive *C difficile* tests reviewed = _____

		Validation Review	
		CDI	**Not CDI**
Identified and Reported by Hospital	**CDI** _____ ***Form B, total Q1 = Yes***	**A**	**B** ***Reported in Error***
	Not CDI _____ ***Form B total Q1 = No***	**C** ***Missed***	**D**

Sensitivity = $\frac{A}{A + C}$ X 100 = _____

Specificity = $\frac{D}{D + B}$ X 100 = _____

Positive Predictive Value = $\frac{A}{A + B}$ X 100 = _____