

	Number of fish by test-result category				Totals
IFAT result	+	+	0	0	
PCR result	+	0	+	0	
Diseased fish	134	4	29	9	176
Non-diseased fish	0	28	12	534	574
Series interpretation	+	0	0	0	
Parallel interpretation	+	+	+	0	

Se of IFAT only = $138/176 = 0.784$	Sp of IFAT only = $546/574 = 0.951$
Se of PCR only = $163/176 = 0.926$	Sp of PCR only = $562/574 = 0.979$
Se of series interpretation = $134/176 = 0.761$	
Se of parallel interpretation = $(134+4+29)/176 = 0.949$	
Sp of series interpretation = $(28+12+534)/574 = 1.000$	
Sp of parallel interpretation = $534/574 = 0.930$	

Table 5.3 Expected Se and Sp levels with combined tests for ISA assuming conditional independence (data from Example 5.8)

	Sensitivity		Specificity	
Interpretation	Expected	Observed	Expected	Observed
Parallel	$0.784+0.926 -$ $0.784*0.926=0.984$	0.949	$0.951*0.979=0.931$	0.930
Series	$0.784*0.926=0.726$	0.761	$0.951+0.979 -$ $0.979*0.951=0.999$	1.000