

Evidence that Jaundice syndrome in farmed Chinook salmon is **not** associated with positive PCR test results for ISAV.

[# of fish with PCR+ tests]/[# of fish examined]:

Healthy = 7/26 (27%)

Jaundiced = 2/7 (29%)

**Conclusion:** Positive PCR results are as common in healthy fish as they are in sick fish (i.e., 27%  $\approx$  29%). These results do not help us explain the cause of jaundice syndrome in farmed Chinook salmon.

**Source of data:** 15 December 2011 **DFO tab 50**;

Data include necropsies by Dr. Sonja Saksida, histopathology by Dr. Gary D. Marty, and PCR tests by Dr. Kristi Miller's laboratory.

**Statistics:**

ISAV PCR result	Condition		Total
	Healthy	Jaundiced	
+	7	2	9
- (no virus)	19	5	24
Total	26	7	33

The association between rows (ISAV PCR test results) and columns (healthy vs. jaundice) are **not statistically significant** (Fisher's exact test, 2  $\times$  2 contingency table, two-tailed P value = 1) and the odds ratio 95% Confidence interval = 0.17 - 6.9.

Analysis by Gary D. Marty, December 14, 2011.

References for calculations:

Fisher's exact test: <http://www.graphpad.com/quickcalcs/contingency2.cfm> and <http://faculty.vassar.edu/lowry/odds2x2.html>