

Article Title: An assessment of inter-observer agreement in water source classification and sanitary risk observations

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Observation characteristic	unadjusted coefficient (95% c.i)	adjusted coefficient (95% c.i)
<i>Protocol deviations:</i>		
absolute lag between 2 observers' source visits (days)	0.05 (-0.01 to 0.20)	
One of the pair of observers visited the source first	1.49 (-1.50 to 4.49)	
<i>indicators of observer fatigue</i>		
survey took place after 3.30pm	-0.77 (-4.65 to 3.11)	
survey took place at weekend	2.90 (-0.54 to 6.34)	
sequential order of source visits (1=first source visited by observer, etc)	0.06 (0.04 to 0.07)	0.03 (0.02 to 0.05)
<i>Observer (reference category for unadjusted model: Observer B)</i>		
Observer C	-5.38 (-8.51 to -2.25)	-4.88 (-7.12 to -2.60)
Observer D	-0.32 (-4.52 to 3.88)	
Observer E	-0.22 (-5.26 to 8.92)	
Observer F	5.53 (2.48 to 8.58)	5.71 (3.46 to 7.96)
<i>Source type (reference category for unadjusted model: borehole)</i>		
lake / dam	-4.58 (-9.46 to 0.30)	
protected well	-1.59 (-6.69 to 3.50)	
rainwater	9.23 (4.46 to 14.01)	10.70 (8.77 to 12.63)
river/stream	-0.70 (-6.41 to 5.01)	
unprotected spring	-5.72 (-17.52 to 6.08)	
unprotected well	-0.12 (-8.75 to 8.51)	
<i>Environmental change</i>		
absolute difference in rainfall (mm) between days when 2 source visits took place	0.55 (-0.16 to 1.26)	

Online Resource 3: unadjusted (univariate) and adjusted (multivariate) coefficients for a regression model predicting the absolute difference in sanitary risk scores for Observer A versus five other observers