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Subject: Statistical difference in median ages  
Posted by [kbietsch](#) on Thu, 21 Dec 2017 21:36:34 GMT  
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Does anyone have a suggestion for a significance test to compare two median ages. For example, I want to see if the median age at first marriage has changed between two surveys.

A more complicated question: is there a way to test for a statistical difference in SMAM (Singulate mean age at marriage)?

Thanks!

Kristin

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Subject: Re: Statistical difference in median ages  
Posted by [Reduced-For\(u\)m](#) on Thu, 21 Dec 2017 21:53:42 GMT  
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How about a quantile regression at the median, including both age-at-first-marriage AND an interaction of age-at-first-marriage with "second survey round"? Then the coefficient on the interaction gives you the difference between the two rounds and you can do a simple T-test (if the interaction coefficient is statistically significant, that's a test of the difference).

Another option would be a "seemingly unrelated regressions" version for quantiles... but looking online I'm not sure anyone has done that (or at least I don't see a Stata package for it). I'd say the interaction method above would be good - you could compare means using Seemingly Unrelated Regression (sureg/suest in Stata) by doing two separate regressions and testing the coefficients after...but it sounds like you want the median.

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