Subject: Confidence Interval for Median duration of abstinence Posted by alam.sayeef on Fri, 07 Feb 2020 14:14:48 GMT View Forum Message <> Reply to Message

I want to calculate the confidence interval of the median duration of postpartum abstinence. The variable is given in months (whole numbers).

Method 1: SUMMARIZE, detail

PROS - Calculation by category/strata is feasible.

CONS - the confidence interval so produced is not in decimal since data is not considered as normal.

SYNTAX

by por, sort: summarize m8, detail

OUTPUT

-> por = Urban

duration of abstinence

Pe	ercentiles	Smalle	st		
1%	0	0			
5%	1	0			
10%	1	0	Obs	35,523	
25%	2	0	Sum of W	gt. 35,523	
50%	3		Mean	20.01053	
	La	argest	Std. Dev.	35.44062	
75%	7	98			
90%	96	98	Variance 1256.		
95%	96	98	Skewnes	s 1.67059	4
99%	96	98	Kurtosis	3.817338	

-> por = Rural

duration of abstinence

Percentiles		Smallest		
1%	0	0		
5%	1	0		
10%	1	0	Obs	116,567

25%	2	0	Sum of Wgt	. 116,567
50%	3			20.76323
	La	rgest	Std. Dev.	36.31985
75%	7	98		
90%	96	98	Variance	1319.131
95%	96	98	Skewness	1.583656
99%	98	98	Kurtosis	3.531344

Method 2: TABSTAT

PROS - Calculation by category/strata is feasible.

CONS - the confidence interval so produced is not in decimal since data is not considered as normal.

SYNTAX

tabstat m8, stat(median) by(por)

OUTPUT

Summary for variables: m8 by categories of: por (Place of Residence)

Method 2: CENTILE PROS - The ci produced is in the desired format due to the consideration of variable as normally distributed

CONS - Calculation by category/strata is not feasible.

SYNTAX

centile m8, n

OUTPUT

Normal, based on observed centiles					centiles	
Variable	Obs	Percentile	Centile	[95%	[95% Conf. Interval]	
+						
m8	152,090	50	3	2.743866	3.256134	

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