

TABLE 2.5. Average Parameter Estimates from the Illustrative Computer Simulation

Estimate	Population parameter	Missing data technique			
		LD	AMI	RI	SRI
MCAR simulation					
IQ Mean	100.00	99.98	99.99	99.99	99.99
JP Mean	12.00	12.00	12.00	12.01	12.00
IQ Variance	169.00	170.29	169.64	169.64	169.64
JP Variance	9.00	8.99	4.47	5.62	8.99
IQ-JP Covariance	19.50	19.53	9.72	19.45	19.42
IQ-JP Correlation	0.50	0.50	0.35	0.63	0.50
MAR simulation					
IQ Mean	100.00	110.35	100.04	100.04	100.04
JP Mean	12.00	13.21	13.21	12.00	12.01
IQ Variance	169.00	61.79	168.17	168.17	168.17
JP Variance	9.00	7.61	3.79	5.79	9.14
IQ-JP Covariance	19.50	7.22	3.60	19.64	19.60
IQ-JP Correlation	0.50	0.33	0.14	0.62	0.50
MNAR simulation					
IQ Mean	100.00	105.15	100.02	100.02	100.02
JP Mean	12.00	14.40	14.40	14.14	14.14
IQ Variance	169.00	141.69	168.30	168.30	168.30
JP Variance	9.00	3.27	1.63	1.88	3.33
IQ-JP Covariance	19.50	6.97	3.47	8.29	8.27
IQ-JP Correlation	0.50	0.32	0.21	0.46	0.35

Note. JP = job performance; LD = listwise deletion; AMI = arithmetic mean imputation; RI = regression imputation, SRI = stochastic regression imputation.

p. 54 Enders, C. K. (2010). Applied Missing Data Analysis. Methodology in the Social Sciences Series. Guilford Press.

TABLE 8.3. Average Parameter Estimates from the Illustrative Computer Simulation

Parameter	Population value	Multiple imputation	Maximum likelihood
<u>MCAR simulation</u>			
μ_{IQ}	100.00	99.98	100.02
μ_{JP}	12.00	11.99	11.99
σ_{IQ}^2	169.00	169.34	168.25
σ_{JP}^2	9.00	9.08	8.96
σ_{IQJP}	19.50	19.51	19.48
<u>MAR simulation</u>			
μ_{IQ}	100.00	100.00	100.01
μ_{JP}	12.00	12.00	12.01
σ_{IQ}^2	169.00	168.46	168.50
σ_{JP}^2	9.00	9.23	8.96
σ_{IQJP}	19.50	19.43	19.15
<u>MNAR simulation</u>			
μ_{IQ}	100.00	100.02	100.00
μ_{JP}	12.00	14.13	14.12
σ_{IQ}^2	169.00	170.37	169.11
σ_{JP}^2	9.00	3.42	3.33
σ_{IQJP}	19.50	8.51	8.55

p 230. Enders, C. K. (2010). Applied Missing Data Analysis. Methodology in the Social Sciences Series. Guilford Press.