
APPLIED LONGITUDINAL ANALYSIS

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Errors and Omissions:

Despite our best efforts, the first printing contains the following errors:

- Page 17, line 16: “...analyzing longitudinal...” should be “...analyzing longitudinal data...”
- Page 54, line -12: “...from baseline to 6 weeks, is $\beta_1 \times 6$, for children...” should be “...from baseline to 6 weeks, is $\beta_2 \times 6$, for children...”
(Thanks to Joe Cappelleri for pointing this out)
- Page 62, line -4: “...response variably...” should be “...response variable...”
(Thanks to Joe Cappelleri for pointing this out)
- Page 90, Equation (4.5): $(X_i' \Sigma^{-1} X_i)$ should be $(X_i' \Sigma_i^{-1} X_i)$
(Thanks to Theo Stijnen for pointing this out)
- Page 120, line -6: “...is -5.0 .” should be “...is -15.27 .”
(Thanks to Joe Cappelleri for pointing this out)
- Page 127, line 8: “...second strategy in not...” should be “...second strategy is not...”
(Thanks to Joe Cappelleri for pointing this out)
- Page 138: Superfluous blank lines before section head
- Page 138, line -5: “2 = Plecebo.” should be “2 = Placebo.”
(Thanks to Joe Cappelleri for pointing this out)
- Page 139, Problem 5.1.4: “...with 4...” should be “...with 5...”
(Thanks to Bill Lenderking for pointing this out)
- Page 139, Problem 5.1.10: “...(group 1)...” should be “...(group 2)...”
(Thanks to Andrew Hayen for pointing this out)

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- Page 147, line -12: “...thereafter (or vice versa)” should be “...thereafter (or vice versa).” (Thanks to Joe Cappelleri for pointing this out)
 - Page 156, line -5: $\hat{\mu}_{ij} = (\hat{\beta}_1 - (\hat{\beta}_3 + \hat{\beta}_5))$ should be $\hat{\mu}_{ij} = \hat{\beta}_1 - (\hat{\beta}_3 + \hat{\beta}_5)$
 - Page 157, Table 6.4: In first row, fourth column (Succimer, Week 4), 16.7 should be 16.9. (Thanks to Ray Balise for pointing this out)
 - Page 201, line 18: “treatments group” should be “treatment group” (Thanks to Joe Cappelleri for pointing this out)
 - Page 215, Table 8.3: Replace b_{i1} and b_{i2} with b_{1i} and b_{2i} respectively
 - Page 217, line 17: “height (Ht. in cm)” should be “height (Ht. in cm),” (Thanks to Joe Cappelleri for pointing this out)
 - Page 229, lines -6 and -4: -0.0017 should be -0.0072 (Thanks to Joe Cappelleri for pointing this out)
 - Page 234, Problem 8.1: “Freund *et al.*, 1988” should be “Freund *et al.*, 1986” (Thanks to Joe Cappelleri for pointing this out)
 - Page 236, Problem 8.2.2: “...in the two groups.” should be “...in the four groups.” (Thanks to Joe Cappelleri for pointing this out)
 - Page 247: Vertical axis label for Figure 9.4(a) should be Transformed Residual
 - Page 249: Horizontal axis label for Figure 9.6(a) should be Transformed Predicted Value (Thanks to Joe Cappelleri for pointing this out)
 - Page 264, line 8: 300% should be 200% (Thanks to Joe Cappelleri for pointing this out)
 - Page 269, line -5: $\exp(4.0343 - 12 \times 0.4229) = \exp(-1.0057) = 0.366$. should be $\exp(4.0343 - 12 \times 0.4229) = \exp(-1.0405) = 0.353$. (Thanks to Joe Cappelleri for pointing this out)
 - Page 269, line -4: $0.366 / (1 + 0.366) \approx 0.27$ should be $0.353 / (1 + 0.353) \approx 0.26$ (Thanks to Joe Cappelleri for pointing this out)
 - Page 276, Table 10.5: Revised Z statistics

Variable	Estimate	SE	Z
Intercept	-5.4202	0.1308	-41.44
Smoke	0.0273	0.0056	4.88
Personality Type	0.7526	0.1362	5.53
Blood Pressure	0.7534	0.1292	5.83

(Thanks to Joe Cappelleri for pointing this out)

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- Page 286, line -8:

$$l = \log L = \sum_{i=1}^N [\{Y_i \theta_i - a(\theta_i)\} / \phi + b(Y_i, \phi)],$$

should be

$$l = \log L = \sum_{i=1}^N [\{y_i \theta_i - a(\theta_i)\} / \phi + b(y_i, \phi)],$$

(Thanks to Joe Cappelleri for pointing this out)

- Page 291, line -5: Delete superfluous right parenthesis ... “subject-specific models”.
(Thanks to Joe Cappelleri for pointing this out)
- Page 301, Equation (11.3): D' should be D'_i
(Thanks to Garry Anderson for pointing this out)
- Page 302, line 5: 2^{nd} summation in numerator should range from j (not i) = 1 to n_I .
(Thanks to Joe Cappelleri for pointing this out)
- Page 303, line -9: “...the GLE/GEE estimates...” should be “...the GLS/GEE estimates...”
(Thanks to Garry Anderson for pointing this out)
- Page 308, equation at bottom of page: $(age_{ij} - age_{i1})^2$ should be $(age_{ij}^2 - age_{i1}^2)$
- Page 309, line 6: $W^2 = 7.62$, with 4 df, ($p > 0.10$) should be $W^2 = 2.06$, with 4 df, ($p > 0.70$)
- Page 311, line 4: $W^2 = 5.35$, with 2 df, ($p > 0.05$) should be $W^2 = 1.74$, with 2 df, ($p > 0.40$)
- Page 330, line 10:
$$\log \{E(Y_{ij} = 1|b_i)\} = \eta_{ij} = X'_{ij}\beta + Z'_{ij}b_i.$$

should be
$$\log \{E(Y_{ij}|b_i)\} = \eta_{ij} = X'_{ij}\beta + Z'_{ij}b_i.$$

(Thanks to Garry Anderson for pointing this out)
- Page 336, lines 5 and 7: Replace “individuals” with “individual”
(Thanks to Joe Cappelleri for pointing this out)
- Page 344, Table 12.3: Replace “MIXED” with “NLMIXED” in footnote
(Thanks to Theo Stijnen for pointing this out)
- Page 344, line 5: Replace “measurement” with “measurements”
(Thanks to Theo Stijnen for pointing this out)
- Pages 347, 349, 350: Replace b_{i1} and b_{i2} with b_{1i} and b_{2i} respectively

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- Page 357, Problem 12.2: “...1770 subjects...” should be “...1683 subjects...”
(Thanks to Joe Cappelleri for pointing this out)
 - Page 376, line -11: “...in Section 12.5.” should be “...in Section 11.4.”
(Thanks to Joe Cappelleri for pointing this out)
 - Page 377, line -10: “missing data mechanism”. should be “missing data mechanism.”
(Thanks to Joe Cappelleri for pointing this out)
 - Page 382, line -5: Σ^O should be Σ_i^O
(Thanks to Joe Cappelleri for pointing this out)
 - Page 383, (top): Σ^{OM} and Σ^M should be Σ_i^{OM} and Σ_i^M
(Thanks to Joe Cappelleri for pointing this out)
 - Page 389, lines 7, 28: “...date...” should be “...data...”
(Thanks to Joe Cappelleri for pointing this out)
 - Page 394, line -15: “of E-step” should be “or E-step”
 - Page 394, line -1: (Italicize k) k^{th}
(Thanks to Joe Cappelleri for pointing this out)
 - Page 396, line 16: (Italicize k) $(k - 1)^{th}$
(Thanks to Joe Cappelleri for pointing this out)
 - Page 396, line 22: “completers”. should be “completers.”
(Thanks to Joe Cappelleri for pointing this out)
 - Page 410, line 8: “...182 subjects...” should be “...162 subjects...”
(Thanks to Joe Cappelleri for pointing this out)
 - Page 434, line 6: “...requite...” should be “...require...”
(Thanks to Joe Cappelleri for pointing this out)
 - Page 439, line -11: “...requisites...” should be “...requires...”

Please report any additional errors or omissions to fitzmaur@hsph.harvard.edu

(Last updated on April 3, 2011)