Biostatistical Analysis

Jerrold H. Zar

5th Edition, 2010

Published by Prentice Hall

ERRATA / CORRECTIONS

**The printing number of the book is on the reverse side of the title page,
indicated by the last number in the series of numbers beneath "Printed in the United States of America."
For example, the third printing is indicated by this sequence of numbers: 10 9 8 7 6 5 4 3.**

Printing 3

Date	Location	Change
16 May 10	page 122, line 2 under box	***from:*** σ ***to:*** σ^2
16 May 10	page 122, line 4 under box	***from:*** *F* test for variances ***to:*** χ^2 test for a variance ***from:*** *t* test for means ***to:*** *t* test for a mean
16 May 10	page 199, section **(f)**, line 1	***from:*** **amd** ***to:*** **and**
16 May 10	page 226, paragraph 1, lines 5 & 6	***from:*** ν_2 ***to:*** μ_2 [in 4 places]
16 May 10	page 230, paragraph 3, line 7	***from:*** $\mu_1 \neq \mu_3 \neq \mu_4$ ***to:*** $\mu_1 \neq \mu_3 = \mu_4$
16 May 10	page 236, Example 11.4, Table heading, 2nd column	***from:*** $\bar{X}_2$ ***to:*** $\bar{X}_B$
16 May 10	page 266, Equations 12.23, 12.24, 12.25, 12.26	***from:*** : ***to:*** [delete colon]
16 May 10	page 271, Example 12.4 In 1st table, row for *Block 2*	***from:*** 10.00 ***to:*** 11.00
16 May 10	page 532, Example 24.7 line 3 from bottom of page	***from:*** $p > 5$ ***to:*** $p > 0.5$
16 May 10	page 533, in box, line 1 under section **(c)** heading line 3 under that heading	***from:*** $n - 12$ ***to:*** $n = 12$ ***from:*** and to ***to:*** to ***from:*** $C_{0.05(1),12,n}$ ***to:*** $C_{0.05(1),n}$
16 May 10	page 536, Equation 24.30 numerator	***from:*** $p - p_0$ ***to:*** $\hat{p} - p_0$
16 May 10	page 536, Example 24.9 under "Using Equation 24.30"	***from:*** $p - p_0$ ***to:*** $\hat{p} - p_0$ [in two equations]
16 May 10	page 878, Exercise 11.4 line 1	***from:*** 60.62, 69.30, 86.24, 100.35 ***to:*** 63.24, 64.62, 71.30, 73.35

	line 3 line 4 last line	***from:*** 8.557 ***to:*** 9.3833 ***from:*** reject H_0: $\mu_4 = \mu_1$ ***to:*** do not reject H_0: $\mu_4 = \mu_1$ ***from:*** mean of each other population ***to:*** mean of populations 2 and 3
16 May 10	page 880, Exercise 17.1, line 1	***from:*** $a = 3.78$ ***to:*** $a = 3.47$
16 May 10	page 939	***from:*** Pseudo-R^2, , ***to:*** Pseudo-R^2, [delete one of the two commas]
16 May 10	page 939, for Pseudoreplication	***from:*** *142* ***to:*** *103, 142*
16 May 10	page 943, for John Venn	***from:*** 5 ***to:*** 58
26 Jun 10	page 122, paragraph 1, last sentence	***delete:*** , even if the distribution is normal
26 Jun 10	page 182, line 4 from bottom	***delete:*** as indicated in equation 8.29,
26 Jun 10	page 401, last equation	***from:*** 242 ***to:*** 240 ***from:*** 0.852 ***to:*** 0.845
26 Jun 10	page 498, last line in top box	***from:*** $P = 0.22$ ***to:*** $P = 0.13$
26 Jun 10	page 598, line 6 inside box	***from:*** $u = 9$ ***to:*** $u = 8$
26 Jun 10	page 884, Exercise 24.20	***delete:*** all of Exercise 24.20
26 Jun 10	page 884, following Exercise 24.19	***insert:*** **24.20. (a)** 1-tailed $P = 0.028$; reject H_0. **(b)** $\chi_c^2 = 3.593$; $\chi_{0.05,1}^2 = 3.841$; do not reject H_0; $0.05 < P < 0.10$ [$P = 0.058$]. **(c)** $\chi_H^2 = 4.909$; $\chi_{0.05,1}^2 = 3.841$; reject H_0; $0.025 < P < 0.05$ [$P = 0.028$]. **(d)** second tail $P = 0.005$; 2-tailed $P = 0.033$; reject H_0. **24.21.** $\chi_c^2 = 3.593$; $\chi_{0.05,1}^2 = 3.841$; do not reject H_0; $0.10 < P < 0.25$ [$P = 0.15$].
26 Jun 10	page 928, for Please, N. W.	***from:*** 102 ***to:*** 102, 122

Printing 1 and Printing 2

Date	Location	Change
15 Dec 09	page 108, Example 7.6 in the 2 equations beginning with 25.03°C	***from:*** denominator of 2 ***to:*** denominator of 25
15 Dec 09	page 140, Example 8.2a under column headed “At 30° C” under column headed “At 10° C”	***align:*** column of numbers from 40 to 35 ***align:*** column of numbers 36 to 55
15 Dec 09	page 196, Example 10.1b in groups SS equation numerator	***from***: $\left(\sum_{j=1}^{n_i}\ \right)^2$ ***to***: $\left(\sum_{j=1}^{n_i} X_{ij}\right)^2$

[to appear as it does in Equation 10.14]

15 Dec 09 page 231, Example 11.2

1st line under title	***from:*** Equation 10.1 ***to:*** Example 10.1
sample sizes (n_i)	***from:*** 4 5 5 5 ***to:*** 5 5 5 4
	from: sample sizes (n_i): ***to:*** sample size (n_i):
next line	***from:*** 2.111 ***to:*** 1.877
	from: 1.453 ***to:*** 1.370
next line	***from:*** 0.383 ***to:*** 9.383
next line	***from:*** 1.877 ***to:*** 2.111
	from: 1.370 ***to:*** 1.453

15 Dec 09 page 231, Example 11.2, in table

q for 3 vs. 1	***from:*** 6.371 ***to:*** 6.372
SE for 3 vs. 2	***from:*** 1.370 ***to:*** 1.453
q for 3 vs. 2	***from:*** 1.496 ***to:*** 1.411
SE for 1 vs. 4	***from:*** 1.453 ***to:*** 1.370
q for 1 vs. 4	***from:*** 0.950 ***to:*** 1.007

15 Dec 09 page 240, line 2

from: Table B.5 ***to:*** Table B.5)
delete: parenthesis at end of line

page 240, line 4 below example box ***from:*** Section 11.7 ***to:*** Section 11.6

15 Dec 09 page 241, Example 11.7

line 1 under title ***from:*** 10.10. ***to:*** 10.10. By Equation 11.22:

15 Dec 09 page 242, Example 11.8

line 2 under title	***from:*** That ***to:*** that
	insert: period at end of line
"Rank sum" line	***from:*** 63.24 64.62 71.30 73.35
	to: 55 132.5 163.5 145
"Sample size" line	***from:*** 5 ***to:*** 8

15 Dec 09 page 537, 1st footnote, 1st line ***from:*** Arbuthnott ***to:*** Arbuthnot

15 Dec 09 page 619, Example 26.6

in equation for *R*	***from:*** 6.60108 ***to:*** 6.6018
in 2nd arccos equation	***from:*** 6.60108 ***to:*** 6.6018 [2 times]
in the last 3 lines	***from:*** 0.89883 ***to:*** 0.85779
	from: 26° ***to:*** 31° [3 times]
	from: 334° ***to:*** 229°
	from: 73° ***to:*** 68°
	from: 125° ***to:*** 130°

15 Dec 09 page 633, last line ***from:*** 1.0251 ***to:*** 1.0351

15 Dec 09 page 734, line 1 ***from:*** ad ***to:*** and

15 Dec 09 page 763, table B.14

for row $a = 4$, $b = 3$ and column 0.01 ***delete:*** 9.000

15 Dec 09 pages 786-794 ***note:*** The numbers in the *n* columns are not all in consecutive order. However, in each line (that is, for each *n*) all of the numbers in that line are correct.

15 Dec 09 page 852

	in equation after 1st paragraph	***insert:*** minus sign before 1st parenthesis
15 Dec 09	page 910, the Papanastasiou reference	***indent:*** *STATS*
15 Dec 09	page 935, "Dunn test"	***from:*** 232 ***to:*** 232, 240 243
15 Dec 09	page 939, under "Number"	***from:*** pseudo- ***to:*** pseudorandom
15 Dec 09	page 942, for t , t_i	***delete:*** 440,
26 Jan 10	page 115, Example 7.7 in 1st line after 1st equation	***from:*** (by Equation 7.7) ***to:*** (by Equation 7.9)
27 Jan 10	page 278, Example 12.5 in the equation for χ_r^2	***from:*** $2b(a + 1)$ ***to:*** $3b(a + 1)$
	in the equation for F_F	***from:*** $\frac{(5-1)(8.4)}{5(3-1)}$ 8.4 ***to:*** $\frac{(5-1)(8.4)}{5(3-1)- 8.4}$
5 Mar 10	page 199, section **(f)**, line 1	***from:*** **amd** ***to:*** **and**
5 Mar 10	page 226, paragraph 1, lines 5 & 6	***from:*** ν_2 ***to:*** μ_2 [in 4 places]
5 Mar 10	page 230, paragraph 3, line 7	***from:*** $\mu_1 \neq \mu_3 \neq \mu_4$ ***to:*** $\mu_1 \neq \mu_3 = \mu_4$
5 Mar 10	page 236, Example 11.4, table heading, 2nd column	***from:*** $\bar{X}_2$ ***to:*** $\bar{X}_B$
5 Mar 10	p. 271, Example 12.4 in 1st table, row for *Block 2*	***from:*** 10.00 ***to:*** 11.00
5 Mar 10	page 532, Example 24.7 line 3 from bottom of page	***from:*** $p > 5$ ***to:*** $p > 0.5$
5 Mar 10	page 533, in box, line 1 under section **(c)** heading line 3 under that heading	***from:*** $n - 12$ ***to:*** $n = 12$ ***from:*** and to ***to:*** to ***from:*** $C_{0.05(1),12,n}$ ***to:*** $C_{0.05(1),n}$
5 Mar 10	page 536 Equation 24.30 in Example 24.9 box line 5 from bottom of box line 3 from bottom of box	***from:*** $p - p_0$ ***to:*** $\hat{p} - p_0$ ***from:*** $p - p_0$ ***to:*** $\hat{p} - p_0$ ***from:*** $p - p_0$ ***to:*** $\hat{p} - p_0$
5 Mar 10	page 878, Exercise 11.4 line 1 line 3 line 4 last line	***from:*** 60.62, 69.30, 86.24, 100.35 ***to:*** 63.24, 64.62, 71.30, 73.35 ***from:*** 8.557 ***to:*** 9.3833 ***from:*** reject H_0: $\mu_4 = \mu_1$ ***to:*** do not reject H_0: $\mu_4 = \mu_1$ ***from:*** mean of each other population ***to:*** mean of populations 2 and 3
5 Mar 10	page 880, Exercise 17.1, line 1	***from:*** $a = 3.78$ ***to:*** $a = 3.47$
16 May 10	page 122, line 2 under box	***from:*** σ ***to:*** σ^2

16 May 10	page 122, line 4 under box	***from:*** *F* test for variances ***to:*** χ^2 test for a variance ***from:*** *t* test for means ***to:*** *t* test for a mean
16 May 10	page 199, section **(f)**, line 1	***from:*** **amd** ***to:*** **and**
16 May 10	page 226, paragraph 1, lines 5 & 6	***from:*** ν_2 ***to:*** μ_2 [in 4 places]
16 May 10	page 230, paragraph 3, line 7	***from:*** $\mu_1 \neq \mu_3 \neq \mu_4$ ***to:*** $\mu_1 \neq \mu_3 = \mu_4$
16 May 10	page 236, Example 11.4, Table heading, 2nd column	***from:*** $\bar{X}_2$ ***to:*** $\bar{X}_B$
16 May 10	page 266, Equations 12.23, 12.24, 12.25, 12.26	***from:*** : ***to:*** [delete colon]
16 May 10	p. 271, Example 12.4 In 1st table, row for *Block 2*	***from:*** 10.00 ***to:*** 11.00
16 May 10	page 532, Example 24.7 line 3 from bottom of page	***from:*** $p > 5$ ***to:*** $p > 0.5$
16 May 10	page 533, in box, line 1 under section **(c)** heading line 3 under that heading	***from:*** $n - 12$ ***to:*** $n = 12$ ***from:*** and to ***to:*** to ***from:*** $C_{0.05(1),12,n}$ ***to:*** $C_{0.05(1),n}$
16 May 10	page 536, Equation 24.30 numerator	***from:*** $p - p_0$ ***to:*** $\hat{p} - p_0$
16 May 10	page 536, Example 24.9 under "Using Equation 24.30"	***from:*** $p - p_0$ ***to:*** $\hat{p} - p_0$ [in two equations]
16 May 10	page 878, Exercise 11.4 line 1 line 3 line 4 last line	***from:*** 60.62, 69.30, 86.24, 100.35 ***to:*** 63.24, 64.62, 71.30, 73.35 ***from:*** 8.557 ***to:*** 9.3833 ***from:*** reject H_0: $\mu_4 = \mu_1$ ***to:*** do not reject H_0: $\mu_4 = \mu_1$ ***from:*** mean of each other population ***to:*** mean of populations 2 and 3
16 May 10	page 880, Exercise 17.1, line 1	***from:*** $a = 3.78$ ***to:*** $a = 3.47$
16 May 10	page 939	***from:*** Pseudo-R^2, , ***to:*** Pseudo-R^2, [delete one of the two commas]
16 May 10	page 939, for Pseudoreplication	***from:*** 142 ***to:*** 103, 142
16 May 10	page 943, for John Venn	***from:*** 5 ***to:*** 58