

List of corrections for

Odd O. Aalen, Ørnulf Borgan and Håkon K. Gjessing: *Survival and Event History Analysis: A process point of view*. Springer-Verlag, 2008.

(Last updated 1 February 2023)

Page 10, line 3 from below:

Replace “Examples 3.8, 3.10, and 10.2” by “Examples 3.7, 3.8, 3.10, and 10.2”.

Page 20, line 5 from below:

Replace “Examples 3.3, 3.15, 4.1, 4.4, and 5.5” by “Examples 3.3, 3.13, 3.15, 4.1, 4.4, and 5.5”.

Page 22, last line:

Omit “ $g \neq h$ ” in formula (1.9).

Page 23, line 3 from above:

Add “ $g \neq h$ ” at the end of formula (1.10).

Page 49, line 13 from above:

Replace “ $0 \leq s < t < u < v \leq \tau$ ” by “ $0 \leq s < t \leq u < v \leq \tau$ ”.

Page 56, line 4 from below:

Replace “*self-exiting*” by “*self-exciting*”

Page 66, line 2 from below:

Omit subscript n on the optional variation process $[M_1, M_2]$.

Page 87, legend to Fig. 3.10:

The description of the lines should read: “*Drawn line: first child died within one year; dashed line: first child survived one year.*”

Page 104, line 1 from above:

Replace “From Section 3.2.1 we know ...” by “From Section 3.1.5 we know ...”.

Page 153, line 7 from above:

Replace “ $\mathbf{S}^{(1)}(\boldsymbol{\beta}_0, u)$ ” by “ $\mathbf{S}^{(1)}(\boldsymbol{\beta}_0, u)^T$ ” in formula (4.50).

Page 153, line 14 from above:

Replace “ $\dot{\mathbf{r}}(\boldsymbol{\beta}_0, \mathbf{x}_0(u))$ ” by “ $\dot{\mathbf{r}}(\boldsymbol{\beta}_0, \mathbf{x}_0(u))^T$ ” in the formula.

Page 153, line 8 from below:

Replace “ $\dot{\mathbf{r}}(\boldsymbol{\beta}_0, \mathbf{x}_0(u))$ ” by “ $\dot{\mathbf{r}}(\boldsymbol{\beta}_0, \mathbf{x}_0(u))^T$ ” and replace “ $\mathbf{S}^{(1)}(\boldsymbol{\beta}_0, u)$ ” by “ $\mathbf{S}^{(1)}(\boldsymbol{\beta}_0, u)^T$ ” in the second term on the right-hand side of formula (4.51).

Page 169, line 8 from above:

Replace “ $[\mathbf{M}_{\text{res}}^{\mathbf{V}}(t)](t)$ ” by “ $[\mathbf{M}_{\text{res}}^{\mathbf{V}}](t)$ ” on the left-hand side of formula (4.77).

Page 203, Exercise 4.1.a:

Replace “ $\mathbf{U}(\boldsymbol{\beta}) = \log L(\boldsymbol{\beta})/\partial\boldsymbol{\beta}$ ” by “ $\mathbf{U}(\boldsymbol{\beta}) = \partial \log L(\boldsymbol{\beta})/\partial\boldsymbol{\beta}$ ”.

Page 203, Exercise 4.1.b:

Replace “ $\mathbf{I}(\boldsymbol{\beta}) = -\mathbf{U}(\boldsymbol{\beta})/\partial\boldsymbol{\beta}^T$ ” by “ $\mathbf{I}(\boldsymbol{\beta}) = -\partial\mathbf{U}(\boldsymbol{\beta})/\partial\boldsymbol{\beta}^T$ ”.

Page 215, line 2 from below:

Replace “181 weeks” by “182 weeks”.

Page 220, line 12 from above:

Replace “ $0 = t_0 < t_1 < t_2 < \dots < t_K = \tau$ ” by “ $0 = t_0 < t_1 < t_2 < \dots < t_K = \tau$ ”.

Page 224, formula (5.15):

Replace “ $\alpha_0(t; \boldsymbol{\theta}) = \sum_{i=1}^K \theta_k I_k(t)$ ” by “ $\alpha_0(t; \boldsymbol{\theta}) = \sum_{k=1}^K \theta_k I_k(t)$ ”.

Page 228, line 12 from above:

Replace “ $R_i(t) = \int_0^{\tau} Y_i(u) du$ ” by “ $R_i(t) = \int_0^t Y_i(u) du$ ”.

Page 228, line 17 from above:

Replace “ $\nu = \log \beta$ ” by “ $\nu = e^{\beta}$ ”.

Page 244, line 3 from above:

Replace “formula (6.18)” by “formula (6.17)”.

Page 260, Figure 6.13:

In the lower right-hand box of the figure, “A” should be replaced by “C”. Similarly, the symbols beside the lower arrow should read “ $Z_C \alpha_C(t)$,” not “ $Z_A \alpha_A(t)$ ”.

Page 278, line 10 from above:

A subscript i is missing for the Z in the denominator of the right-hand expression. The denominator should read “ $\mathbb{E}_{Z_i} \left\{ Z_i^{D_i \bullet} \exp(-V_i Z_i) \right\}$ ”

Page 278, line 11 from above:

A factor Z_i is missing in the exponent of the denominator of the left-hand expression. The denominator should read “ $\mathbb{E}_{Z_i} \left\{ Z_i^{D_i \bullet} \exp(-V_i Z_i) \right\}$ ”.

Page 279, line 6 from below:

In the last sum, “ K_{ir} ” should be replaced by “ D_{ir} ”.

Page 288, Table 7.3:

Due to a small error in the version of the data we used for our analysis, some of the numbers in Table 7.3 are slightly wrong. The table below gives the correct numbers and also corrects the signs of the first and last Wald statistic.

| Covariate | Estimate | Standard error | Hazard ratio | Wald statistic | P-value |
|--------------------------|----------|----------------|--------------|----------------|---------|
| Treatment | -0.608 | 0.333 | 0.545 | -1.82 | 0.068 |
| Number of initial tumors | 0.239 | 0.093 | 1.270 | 2.56 | 0.010 |
| Size of largest tumor | -0.022 | 0.114 | 0.979 | -0.19 | 0.850 |

Page 288, line 10 from below:

The variance of the gamma frailty should be 1.08, not 1.07.

Page 303, line 2 from above:

Omit “rate function”.

Page 307, lines 7 & 8 from above:

Replace “ $\beta_3(t)$ ” by “ $\beta_2(t)$ ”.

Page 314, Table 8.1:

Due to a small error in the version of the data we used for our analysis, some of the numbers in Table 8.1 are slightly wrong. The table below gives the correct numbers.

| Covariate | Estimate | Standard Error | Wald Statistic | P-value |
|--------------------------|----------|----------------|----------------|---------|
| Treatment | -0.465 | 0.266 | -1.75 | 0.080 |
| Number of initial tumors | 0.175 | 0.063 | 2.78 | 0.006 |
| Size of largest tumor | -0.044 | 0.078 | -0.563 | 0.574 |

Page 330, legend to Fig. 8.10:

Replace “. . . the time-dependent covariate “initial number of tumors” . . .” by “. . . the time-dependent covariate “number of previous tumors $N(t-)$ ” . . .”.

Page 459, line 3 from above:

Replace “Stiltjes integral” by “Stieltjes integral”.

Page 460, line 7 from below:

Replace “ $\exp(\alpha(u)du) \approx 1 - \alpha(u)du$ ” by “ $\exp(-\alpha(u)du) \approx 1 - \alpha(u)du$ ”.

Page 470, line 3 from below:

Replace “1” (i.e. the number one) by “ \mathbf{I} ” (i.e. the identity matrix).

