

S5 Appendix. Output hierarchical regression analysis

Basic model with control variables child impairment, age, and sex

```
Call:
lm(formula = Sorgen_m ~ KBeein + KAlter_Gesamtmonate + KGesch,
    data = dat_complete, na.action = na.exclude)

Residuals:
    Min       1Q   Median       3Q      Max
-2.4813 -1.4088 -0.4914  1.0368  6.3699

Coefficients:
                Estimate Std. Error t value Pr(>|t|)
(Intercept)      2.362946   0.865114   2.731   0.0071 **
KBeein            0.668205   0.315566   2.117   0.0359 *
KAlter_Gesamtmonate 0.004370   0.007947   0.550   0.5832
KGeschWeiblich   -0.184778   0.346040  -0.534   0.5942
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 1.807 on 143 degrees of freedom
Multiple R-squared:  0.03897,    Adjusted R-squared:  0.0188
F-statistic: 1.933 on 3 and 143 DF,  p-value: 0.127
```

Expansion model with difficulties in restricting media consumption

```
Call:
lm(formula = Sorgen_m ~ KBeein + KAlter_Gesamtmonate + KGesch +
    UmgangE1, data = dat_complete, na.action = na.exclude)

Residuals:
    Min       1Q   Median       3Q      Max
-2.8259 -1.2089 -0.3385  0.9064  6.6873

Coefficients:
                Estimate Std. Error t value Pr(>|t|)
(Intercept)      2.750626   0.809524   3.398 0.000882 ***
KBeein            0.347650   0.301330   1.154 0.250553
KAlter_Gesamtmonate -0.005419   0.007676  -0.706 0.481389
KGeschWeiblich   -0.227855   0.322308  -0.707 0.480757
UmgangE1          0.248446   0.051848   4.792 4.12e-06 ***
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 1.682 on 142 degrees of freedom
Multiple R-squared:  0.1727,    Adjusted R-squared:  0.1494
F-statistic: 7.412 on 4 and 142 DF,  p-value: 1.886e-05
```

Expansion model with difficulties in restricting media consumption + Preference for digital media and media addiction

Call:
lm(formula = Sorgen_m ~ KBeein + KAlter_Gesamtmonate + KGesch +
UmgangE1 + U_Mediensucht_m, data = dat_complete, na.action = na.exclude)

Residuals:
Min 1Q Median 3Q Max
-2.1232 -0.8658 -0.1782 0.5098 7.6348

Coefficients:
Estimate Std. Error t value Pr(>|t|)
(Intercept) 1.611831 0.707988 2.277 0.0243 *
KBeein -0.183699 0.267117 -0.688 0.4928
KAlter_Gesamtmonate -0.012112 0.006613 -1.832 0.0691 .
KGeschweiblich -0.084908 0.275733 -0.308 0.7586
UmgangE1 0.015545 0.054427 0.286 0.7756
U_Mediensucht_m 0.677830 0.092246 7.348 1.48e-11 ***

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 1.436 on 141 degrees of freedom
Multiple R-squared: 0.4018, Adjusted R-squared: 0.3806
F-statistic: 18.94 on 5 and 141 DF, p-value: 2.223e-14

Expansion model with difficulties in restricting media consumption + Preference for digital media and media addiction + How many hours can the child cope without media

Call:
lm(formula = Sorgen_m ~ KBeein + KAlter_Gesamtmonate + KGesch +
UmgangE1 + U_Mediensucht_m + Aushalohn, data = dat_complete,
na.action = na.exclude)

Residuals:
Min 1Q Median 3Q Max
-2.3122 -0.8401 -0.2084 0.4901 7.5143

Coefficients:
Estimate Std. Error t value Pr(>|t|)
(Intercept) 3.105969 0.994715 3.122 0.00218 **
KBeein -0.280698 0.267861 -1.048 0.29648
KAlter_Gesamtmonate -0.013900 0.006588 -2.110 0.03665 *
KGeschweiblich -0.090724 0.272422 -0.333 0.73961
UmgangE1 -0.006940 0.054813 -0.127 0.89943
U_Mediensucht_m 0.589317 0.100304 5.875 2.94e-08 ***
Aushalohn -0.176857 0.083717 -2.113 0.03641 *

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 1.418 on 140 degrees of freedom
Multiple R-squared: 0.4203, Adjusted R-squared: 0.3954
F-statistic: 16.92 on 6 and 140 DF, p-value: 1.249e-14

Final model with difficulties in restricting media consumption + Preference for digital media and media addiction + How many hours can the child cope without media + Maximum media time

Call:

```
lm(formula = Sorgen_m ~ KBeein + KAlter_Gesamtmonate + KGesch +
    UmgangE1 + U_Mediensucht_m + Aushalohn + MeZeitTag_mean,
    data = dat_complete, na.action = na.exclude)
```

Residuals:

```
      Min       1Q   Median       3Q      Max
-2.1187 -0.8087 -0.2433  0.4319  7.4549
```

Coefficients:

	Estimate	Std. Error	t value	Pr(> t)	
(Intercept)	3.173988	0.992400	3.198	0.00171	**
KBeein	-0.166739	0.278894	-0.598	0.55091	
KAlter_Gesamtmonate	-0.011494	0.006783	-1.694	0.09243	.
KGeschweiblich	-0.068168	0.271937	-0.251	0.80244	
UmgangE1	-0.002929	0.054695	-0.054	0.95737	
U_Mediensucht_m	0.585019	0.099998	5.850	3.36e-08	***
Aushalohn	-0.194010	0.084306	-2.301	0.02286	*
MeZeitTag_mean	-0.002505	0.001777	-1.410	0.16086	

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 1.413 on 139 degrees of freedom
 Multiple R-squared: 0.4285, Adjusted R-squared: 0.3997
 F-statistic: 14.89 on 7 and 139 DF, p-value: 2.116e-14

Model comparison

Analysis of Variance Table

Model 1: Sorgen_m ~ KBeein + KAlter_Gesamtmonate + KGesch

Model 2: Sorgen_m ~ KBeein + KAlter_Gesamtmonate + KGesch + UmgangE1

Model 3: Sorgen_m ~ KBeein + KAlter_Gesamtmonate + KGesch + UmgangE1 + U_Mediensucht_m

Model 4: Sorgen_m ~ KBeein + KAlter_Gesamtmonate + KGesch + UmgangE1 + U_Mediensucht_m + Aushalohn

Model 5: Sorgen_m ~ KBeein + KAlter_Gesamtmonate + KGesch + UmgangE1 + U_Mediensucht_m + Aushalohn + MeZeitTag_mean

	Res.Df	RSS	Df	Sum of Sq	F	Pr(>F)	
1	143	466.87					
2	142	401.89	1	64.985	32.5328	6.773e-08	***
3	141	290.60	1	111.284	55.7105	8.336e-12	***
4	140	281.63	1	8.978	4.4943	0.03578	*
5	139	277.66	1	3.970	1.9873	0.16086	

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1