**Appendix**

Table A1. Descriptive statistics

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | France | France | Switzerland | Switzerland | The Netherlands | The Netherlands |
| *Meat eaten* |  |  |  |  |  |  |
| False | 19142 | 0.75 | 14966 | 0.77 | 20225 | 0.75 |
| True | 6486 | 0.25 | 4578 | 0.23 | 6601 | 0.25 |
| Total | 25628 | 1 | 19544 | 1 | 26826 | 1 |
|  |  |  |  |  |  |  |
| Red meat eaten | 22831 | 0.89 | 18560 | 0.95 | 25202 | 0.94 |
|  | 2797 | 0.11 | 984 | 0.05 | 1624 | 0.06 |
|  | 25628 | 1 | 19544 | 1 | 26826 | 1 |
|  |  |  |  |  |  |  |
| *Meal type* |  |  |  |  |  |  |
| Breakfast | 5684 | 0.22 | 3768 | 0.19 | 4348 | 0.16 |
| Morning | 2111 | 0.08 | 2217 | 0.11 | 3785 | 0.14 |
| Lunch | 5848 | 0.23 | 3775 | 0.19 | 3884 | 0.14 |
| Afternoon | 4577 | 0.18 | 3661 | 0.19 | 5104 | 0.19 |
| Dinner  | 5906 | 0.23 | 3977 | 0.20 | 4219 | 0.16 |
| After dinner | 1502 | 0.06 | 2146 | 0.11 | 5486 | 0.20 |
| Total | 25628 | 1 | 19544 | 1 | 26826 | 1 |
|  |  |  |  |  |  |
| *Day of the week* |  |  |  |  |  |
| Monday | 3610 | 0.14 | 3335 | 0.17 | 4250 | 0.16 |
| Tuesday | 4790 | 0.19 | 3450 | 0.18 | 4243 | 0.16 |
| Wednesday | 2849 | 0.11 | 3670 | 0.19 | 3817 | 0.14 |
| Thursday | 3831 | 0.15 | 3318 | 0.17 | 3751 | 0.14 |
| Friday | 2061 | 0.08 | 2005 | 0.10 | 3530 | 0.13 |
| Saturday | 3440 | 0.13 | 1793 | 0.09 | 3458 | 0.13 |
| Sunday | 5047 | 0.20 | 1973 | 0.10 | 3777 | 0.14 |
| Total | 25628 | 1 | 19544 | 1 | 26826 | 1 |
|  |  |  |  |  |  |  |
| *Location* |  |  |  |  |  |  |
| Home | 20006  | 0.78 | 12711  | 0.65 | 19580 | 0.73 |
| Work | 2238 | 0.09 | 2853 | 0.15 | 3584 | 0.13 |
| Friend/Family's | 1385 | 0.05 | 803 | 0.04 | 1486 | 0.06 |
| Outside | 531 | 0.02 | 401 | 0.02 | 291 | 0.01 |
| Restaurant | 838 | 0.03 | 1257 | 0.06 | 857 | 0.03 |
| Other  | 630 | 0.02 | 1519 | 0.08 | 885 | 0.03 |
| Total | 25628 | 1 | 19544 | 1 | 26826 | 1 |
|  |  |  |  |  |  |  |
| *Gender* |  |  |  |  |  |  |
| Male | 15041 | 0.59 | 10679  | 0.55 | 13460 | 0.50 |
| Female | 10587 | 0.41 | 8865 | 0.45 | 13366 | 0.50 |
| Total | 25628 | 1 | 19544 | 1 | 26826 | 1 |

|  |
| --- |
|  |

Table A2.Multilevel **regression model results for meat and red meat consumption by meal type**

|  | France meat | Switzerlandmeat | Netherlands meat | Francered meat | Switzerlandred meat | Netherlandsred meat |
| --- | --- | --- | --- | --- | --- | --- |
| Reference category: Breakfast |  |  |  |  |  |  |
| During the morning | **0.638\*\*\*** | -0.115 | **-1.288\*\*\*** | -0.935 | -1.753 | **-1.180\*** |
|  | (0.164) | (0.116) | (0.071) | (1.029) | (1.290) | (0.513) |
| Lunch | **4.719\*\*\*** | **3.066\*\*\*** | **1.933\*\*\*** | **6.021\*\*\*** | **4.570\*\*\*** | **2.821\*\*\*** |
|  | (0.110) | (0.080) | (0.048) | (0.370) | (0.393) | (0.245) |
| In the afternoon | **0.594\*\*\*** | -0.130 | **-1.221\*\*\*** | 0.651 | 0.526 | **0.972\*\*\*** |
|  | (0.136) | (0.101) | (0.063) | (0.474) | (0.500) | (0.274) |
| Dinner | **3.898\*\*\*** | **2.944\*\*\*** | **3.460\*\*\*** | **4.888\*\*\*** | 4.461\*\*\* | **5.659\*\*\*** |
|  | (0.108) | (0.079) | (0.053) | (0.370) | (0.393) | (0.240) |
| After dinner snack | -0.158 | **-0.496\*\*\*** | **-1.259\*\*\*** | 0.711 | 0.719 | **1.029\*\*\*** |
|  | (0.243) | (0.130) | (0.062) | (0.628) | (0.536) | (0.270) |
| (Intercept) | -4.205\*\*\* | -2.916\*\*\* | -2.030\*\*\* | -6.773\*\*\* | -6.745\*\*\* | -6.665\*\*\* |
|  | (0.106) | (0.073) | (0.046) | (0.369) | (0.393) | (0.242) |
| SD (Intercept ID) | 0.575 | 0.736 | 1.069 | 0.554 | 0.887 | 1.195 |
| Num.Obs. | 25628 | 19544 | 26826 | 25628 | 19544 | 26826 |
| R2 Marg. | 0.535 | 0.385 | 0.423 | 0.670 | 0.570 | 0.485 |
| R2 Cond. | 0.578 | 0.472 | 0.571 | 0.698 | 0.653 | 0.641 |
| AIC | 18340.9 | 15036.3 | 28531.8 | 12320.2 | 5926.4 | 11114.1 |
| BIC | 18397.9 | 15091.5 | 28589.2 | 12377.3 | 5981.6 | 11171.4 |
| ICC | 0.1 | 0.1 | 0.3 | 0.1 | 0.2 | 0.3 |
| RMSE | 0.33 | 0.33 | 0.31 | 0.27 | 0.20 | 0.18 |
| *Note.* \* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001. Estimates significant at 5% based on Benjamini-Hochberg within sample adjusted p-values appear in bold. Standard errors within parentheses |

Table A3.Multilevel **regression model results for meat and red meat consumption by day of the week**

|  | France Meat | SwitzerlandMeat | NetherlandsMeat | FranceRed meat | SwitzerlandRed meat | NetherlandsRed meat |
| --- | --- | --- | --- | --- | --- | --- |
| Reference category: Monday |  |  |  |  |  |  |
| Tuesday | -0.083 | -0.058 | -0.038 | -0.055 | -0.097 | -0.096 |
|  | (0.051) | (0.069) | (0.052) | (0.071) | (0.132) | (0.089) |
| Wednesday | -0.004 | -0.024 | -0.047 | 0.097 | -0.200 | -0.070 |
|  | (0.057) | (0.068) | (0.053) | (0.079) | (0.134) | (0.088) |
| Thursday | -0.125\* | 0.035 | -0.067 | -0.058 | -0.293\* | -0.126 |
|  | (0.055) | (0.069) | (0.055) | (0.076) | (0.141) | (0.092) |
| Friday | -0.146\* | 0.043 | -0.094 | -0.076 | -0.020 | -0.179 |
|  | (0.065) | (0.068) | (0.055) | (0.090) | (0.131) | (0.094) |
| Saturday | -0.026 | 0.107 | -0.046 | 0.003 | 0.081 | -0.162 |
|  | (0.060) | (0.071) | (0.054) | (0.083) | (0.135) | (0.091) |
| Sunday | 0.042 | **0.161\*** | 0.027 | 0.001 | **0.387\*\*\*** | 0.049 |
|  | (0.053) | (0.069) | (0.052) | (0.074) | (0.126) | (0.086) |
| Intercept | -1.050\*\*\* | -1.221\*\*\* | -1.123\*\*\* | -2.129\*\*\* | -3.155\*\*\* | -2.899\*\*\* |
|  | (0.039) | (0.048) | (0.039) | (0.055) | (0.097) | (0.066) |
| SD (Intercept ID) | 0.297 | 0.427 | 0.610 | 0.405 | 0.774 | 0.750 |
| Num.Obs. | 25628 | 19544 | 26826 | 25628 | 19544 | 26826 |
| R2 Marg. | 0.001 | 0.001 | 0.000 | 0.001 | 0.009 | 0.002 |
| R2 Cond. | 0.027 | 0.054 | 0.102 | 0.048 | 0.162 | 0.147 |
| AIC | 28262.3 | 20702.8 | 44501.8 | 17322.3 | 7558.5 | 18211.1 |
| BIC | 28327.5 | 20765.9 | 44567.4 | 17387.5 | 7621.5 | 18276.7 |
| ICC | 0.0 | 0.1 | 0.1 | 0.0 | 0.2 | 0.1 |
| RMSE | 0.43 | 0.41 | 0.41 | 0.31 | 0.21 | 0.23 |
|

|  |
| --- |
| *Note*. \* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001. Estimates significant at 5% based on Benjamini-Hochberg within sample adjusted p-values appear in bold.. Standard errors within parentheses.  |

 |
|  |

Table A4. Multilevel **regression model results for meat and red meat consumption by location**

|  | France Meat | SwitzerlandMeat | NetherlandsMeat | France Red meat | SwitzerlandRed meat | NetherlandsRed meat |
| --- | --- | --- | --- | --- | --- | --- |
| Reference category: At home |  |  |  |  |  |  |
| At work | **-0.198\*\*\*** | **-0.633\*\*\*** | **-0.339\*\*\*** | 0.010 | **-1.082\*\*\*** | **-1.950\*\*\*** |
|  | (0.054) | (0.062) | (0.038) | (0.072) | (0.161) | (0.118) |
| At friend’s/family's home | **0.673\*\*\*** | **0.750\*\*\*** | 0.036 | **0.578\*\*\*** | **0.889\*\*\*** | 0.132 |
|  | (0.062) | (0.083) | (0.055) | (0.082) | (0.138) | (0.090) |
| Outside | **-0.731\*\*\*** | **0.359\*\*\*** | **-0.967\*\*\*** | **-1.157\*\*\*** | -0.118 | **-2.447\*\*\*** |
|  | (0.134) | (0.115) | (0.156) | (0.248) | (0.259) | (0.604) |
| Restaurant/café | **0.532\*\*\*** | **0.850\*\*\*** | **0.824\*\*\*** | **0.958\*\*\*** | **1.277\*\*\*** | **0.842\*\*\*** |
|  | (0.077) | (0.065) | (0.064) | (0.090) | (0.100) | (0.092) |
| Other place | **-1.319\*\*\*** | **0.441\*\*\*** | **-0.793\*\*\*** | **-1.358\*\*\*** | **0.398\*\*\*** | **-2.675\*\*\*** |
|  | (0.149) | (0.063) | (0.081) | (0.241) | (0.119) | (0.336) |
| Intercept | -1.103\*\*\* | -1.264\*\*\* | -1.116\*\*\* | -2.192\*\*\* | -3.303\*\*\* | -2.841\*\*\* |
|  | (0.018) | (0.025) | (0.021) | (0.028) | (0.060) | (0.037) |
| SD (Intercept ID) | 0.294 | 0.447 | 0.626 | 0.414 | 0.776 | 0.809 |
| Num.Obs. | 25628 | 19544 | 26683 | 25628 | 19544 | 26683 |
| R2 Marg. | 0.026 | 0.040 | 0.017 | 0.034 | 0.076 | 0.154 |
| R2 Cond. | 0.051 | 0.095 | 0.122 | 0.082 | 0.219 | 0.295 |
| AIC | 27945.1 | 20268.0 | 43805.7 | 17096.5 | 7317.6 | 17380.2 |
| BIC | 28002.2 | 20323.1 | 43863.0 | 17153.5 | 7372.8 | 17437.5 |
| ICC | 0.0 | 0.1 | 0.1 | 0.0 | 0.2 | 0.2 |
| RMSE | 0.43 | 0.41 | 0.41 | 0.31 | 0.21 | 0.23 |
| *Note*. \* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001. Estimates significant at 5% based on Benjamini-Hochberg within sample adjusted p-values appear in bold. Standard errors within parentheses. |

Table A5. Multilevel **regression model results for meat and red meat consumption by meal type interacted with country**

|  | Meat  | Red meat |
| --- | --- | --- |
| Reference category: Breakfast |  |  |
| During the morning | **0.630\*\*\*** | -0.702 |
|  | (0.162) | (0.954) |
| Lunch | **4.834\*\*\*** | **6.179\*\*\*** |
|  | (0.106) | (0.378) |
| In the afternoon | **0.549\*\*\*** | 0.721 |
|  | (0.135) | (0.479) |
| Dinner | **3.957\*\*\*** | **4.968\*\*\*** |
|  | (0.105) | (0.378) |
| After dinner snack | -0.153 | 0.769 |
|  | (0.237) | (0.636) |
| Reference category: France |  |  |
| Netherlands | **2.319\*\*\*** | 0.569 |
|  | (0.111) | (0.447) |
| Switzerland | **1.319\*\*\*** | 0.197 |
|  | (0.125) | (0.551) |
| During the morning × Netherlands | **-1.901\*\*\*** | -0.467 |
|  | (0.176) | (1.087) |
| Lunch × Netherlands | **-2.973\*\*\*** | **-3.361\*\*\*** |
|  | (0.115) | (0.452) |
| In the afternoon × Netherlands | **-1.750\*\*\*** | 0.257 |
|  | (0.148) | (0.553) |
| Dinner × Netherlands | **-0.637\*\*\*** | 0.545 |
|  | (0.116) | (0.449) |
| After dinner snack × Netherlands | **-1.089\*\*\*** | 0.274 |
|  | (0.245) | (0.692) |
| During the morning × Switzerland | **-0.794\*\*\*** | -1.036 |
|  | (0.200) | (1.631) |
| Lunch × Switzerland | **-1.717\*\*\*** | **-1.559\*\*** |
|  | (0.131) | (0.553) |
| In the afternoon × Switzerland | **-0.732\*\*\*** | -0.120 |
|  | (0.169) | (0.698) |
| Dinner × Switzerland | **-0.976\*\*\*** | -0.458 |
|  | (0.131) | (0.554) |
| After dinner snack × Switzerland | -0.385 | -0.014 |
|  | (0.270) | (0.840) |
| Intercept | -4.278\*\*\* | -6.996\*\*\* |
|  | (0.103) | (0.377) |
| SD (Intercept ID) | 0.858 | 0.895 |
| Num.Obs. | 71998 | 71998 |
| R2 Marg. | 0.457 | 0.586 |
| R2 Cond. | 0.557 | 0.667 |
| AIC | 62060.4 | 29471.8 |
| BIC | 62234.9 | 29646.3 |
| ICC | 0.2 | 0.2 |
| RMSE | 0.32 | 0.22 |
| *Note*. \* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001. Estimates significant at 5% based on Benjamini-Hochberg within sample adjusted p-values appear in bold. Standard errors within parentheses |

Table A6. Multilevel **regression model results for meat and red meat consumption by day of the week interacted with country**

|  | Meat | Red meat |
| --- | --- | --- |
| Reference category: Monday |
| Tuesday | -0.067 | -0.039 |
|  | (0.054) | (0.075) |
| Wednesday | 0.009 | 0.115 |
|  | (0.061) | (0.083) |
| Thursday | -0.114+ | -0.043 |
|  | (0.058) | (0.081) |
| Friday | -0.138\* | -0.045 |
|  | (0.069) | (0.095) |
| Saturday | -0.018 | 0.016 |
|  | (0.062) | (0.086) |
| Sunday | 0.054 | 0.018 |
|  | (0.055) | (0.077) |
| Reference category: France |
| Netherlands | -0.028 | **-0.647\*\*\*** |
|  | (0.056) | (0.085) |
| Switzerland | **-0.158\*** | **-0.872\*\*\*** |
|  | (0.065) | (0.107) |
| Tuesday × Netherlands | 0.031 | -0.040 |
|  | (0.073) | (0.114) |
| Wednesday × Netherlands | -0.059 | -0.154 |
|  | (0.079) | (0.119) |
| Thursday × Netherlands | 0.052 | -0.047 |
|  | (0.078) | (0.120) |
| Friday × Netherlands | 0.043 | -0.117 |
|  | (0.087) | (0.131) |
| Saturday × Netherlands | -0.033 | -0.152 |
|  | (0.081) | (0.124) |
| Sunday × Netherlands | -0.027 | 0.052 |
|  | (0.074) | (0.113) |
| Tuesday × Switzerland | 0.015 | -0.044 |
|  | (0.088) | (0.150) |
| Wednesday × Switzerland | -0.027 | -0.291 |
|  | (0.092) | (0.155) |
| Thursday × Switzerland | 0.152 | -0.226 |
|  | (0.092) | (0.160) |
| Friday × Switzerland | 0.180 | 0.040 |
|  | (0.098) | (0.159) |
| Saturday × Switzerland | 0.129 | 0.069 |
|  | (0.096) | (0.158) |
| Sunday × Switzerland | 0.113 | **0.373\*\*** |
|  | (0.090) | (0.145) |
| Intercept | -1.079\*\*\* | -2.214\*\*\* |
|  | (0.042) | (0.059) |
| SD (Intercept ID) | 0.500 | 0.633 |
| Num.Obs. | 71998 | 71998 |
| R2 Marg. | 0.001 | 0.043 |
| R2 Cond. | 0.072 | 0.147 |
| AIC | 93573.0 | 43143.2 |
| BIC | 93775.1 | 43345.2 |
| ICC | 0.1 | 0.1 |
| RMSE | 0.42 | 0.26 |
| *Note*. \* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001. Estimates significant at 5% based on Benjamini-Hochberg within sample adjusted p-values appear in bold.. Standard errors within parentheses |

Table A7. Multilevel **regression model results for meat and red meat consumption by location interacted with country**

|  | Meat | Red meat |
| --- | --- | --- |
| Reference category: At home |  |  |
| Work | **-0.184\*\*\*** | 0.037 |
|  | (0.056) | (0.075) |
| Friend/Family's home | **0.720\*\*\*** | **0.616\*\*\*** |
|  | (0.065) | (0.085) |
| Outside | **-0.724\*\*\*** | **-1.204\*\*\*** |
|  | (0.136) | (0.257) |
| Restaurant/cafe | **0.570\*\*\*** | **1.002\*\*\*** |
|  | (0.079) | (0.093) |
| Other place | **-1.329\*\*\*** | **-1.345\*\*\*** |
|  | (0.150) | (0.244) |
| Reference category: France |  |  |
| Netherlands | 0.026 | **-0.501\*\*\*** |
|  | (0.028) | (0.041) |
| Switzerland | **-0.148\*\*\*** | **-0.962\*\*\*** |
|  | (0.033) | (0.055) |
| Work × Netherlands | -0.132\* | **-1.944\*\*\*** |
|  | (0.067) | (0.139) |
| Friend/Family's home × Netherlands | **-0.684\*\*\*** | **-0.487\*\*\*** |
|  | (0.084) | (0.122) |
| Outside × Netherlands | -0.232 | -1.217 |
|  | (0.206) | (0.654) |
| Restaurant/cafe × Netherlands | **0.246\*** | -0.173 |
|  | (0.101) | (0.130) |
| Other place × Netherlands | **0.569\*\*\*** | **-1.303\*\*** |
|  | (0.170) | (0.417) |
| Work × Switzerland | **-0.458\*\*\*** | **-1.101\*\*\*** |
|  | (0.084) | (0.176) |
| Friend/Family's home × Switzerland | 0.034 | 0.271 |
|  | (0.106) | (0.160) |
| Outside × Switzerland | **1.097\*\*\*** | **1.097\*\*** |
|  | (0.179) | (0.362) |
| Restaurant/cafe × Switzerland | **0.292\*\*** | 0.258 |
|  | (0.103) | (0.135) |
| Other place × Switzerland | **1.773\*\*\*** | **1.738\*\*\*** |
|  | (0.163) | (0.271) |
| (Intercept) | -1.128\*\*\* | -2.272\*\*\* |
|  | (0.021) | (0.030) |
| SD (Intercept ID) | 0.513 | 0.664 |
| Num.Obs. | 71855 | 71855 |
| R2 Marg. | 0.027 | 0.134 |
| R2 Cond. | 0.099 | 0.237 |
| AIC | 92132.6 | 41855.9 |
| BIC | 92307.1 | 42030.3 |
| ICC | 0.1 | 0.1 |
| RMSE | 0.41 | 0.25 |
| *Note*. \* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001. Estimates significant at 5% based on Benjamini-Hochberg within sample adjusted p-values appear in bold. Standard errors within parentheses |

Table A8: Multilevel **regression model results for meat and red meat consumption – full specification**

|  | FranceMeat | FranceRed meat | Switzerland meat | Switzerland Red meat | NetherlandsMeat | NetherlandsRed meat |
| --- | --- | --- | --- | --- | --- | --- |
| Reference category: Breakfast |
| During the morning | **0.788\*\*\*** | -0.743 | -0.143 | -1.825 | **-1.486\*\*\*** | -0.873 |
|  | (0.166) | (0.999) | (0.121) | (1.372) | (0.075) | (0.516) |
| Lunch | **4.828\*\*\*** | **6.062\*\*\*** | **2.956\*\*\*** | **4.447\*\*\*** | **1.788\*\*\*** | **2.967\*\*\*** |
|  | (0.111) | (0.369) | (0.082) | (0.387) | (0.050) | (0.250) |
| In the afternoon | **0.631\*\*\*** | 0.709 | **-0.245\*** | 0.416 | **-1.430\*\*\*** | **1.156\*\*\*** |
|  | (0.137) | (0.473) | (0.103) | (0.495) | (0.067) | (0.278) |
| Dinner | **3.883\*\*\*** | **4.858\*\*\*** | **2.886\*\*\*** | **4.324\*\*\*** | **3.423\*\*\*** | **5.654\*\*\*** |
|  | (0.108) | (0.369) | (0.079) | (0.385) | (0.054) | (0.243) |
| After dinner snack | -0.167 | 0.709 | **-0.568\*\*\*** | 0.620 | **-1.351\*\*\*** | **1.059\*\*\*** |
|  | (0.245) | (0.628) | (0.131) | (0.529) | (0.064) | (0.273) |
|  Reference category: Monday |  |  |  |
|  Tuesday | -0.070 | -0.032 | -0.104 | -0.128 | -0.117 | -0.123 |
|  | (0.067) | (0.081) | (0.087) | (0.143) | (0.072) | (0.116) |
| Wednesday | 0.001 | 0.121 | -0.014 | -0.207 | -0.109 | -0.140 |
|  | (0.076) | (0.090) | (0.086) | (0.144) | (0.073) | (0.116) |
| Thursday | -0.106 | -0.023 | 0.036 | -0.368\* | -0.107 | -0.156 |
|  | (0.073) | (0.088) | (0.089) | (0.152) | (0.076) | (0.120) |
| Friday | -0.128 | -0.028 | -0.001 | -0.099 | -0.104 | -0.225+ |
|  | (0.086) | (0.103) | (0.089) | (0.144) | (0.077) | (0.123) |
|  Saturday | -0.078 | -0.027 | 0.050 | -0.001 | -0.033 | **-0.286\*** |
|  | (0.079) | (0.096) | (0.091) | (0.147) | (0.076) | (0.121) |
| Sunday | -0.056 | -0.094 | **0.198\*** | **0.413\*\*\*** | 0.075 | -0.040 |
|  | (0.070) | (0.086) | (0.089) | (0.139) | (0.073) | (0.113) |
| Reference category: At home |  |  |
| At work | **-0.554\*\*\*** | **-0.371\*\*\*** | -0.150 | **-0.535\*\*** | **0.418\*\*\*** | **-0.839\*\*\*** |
|  | (0.074) | (0.087) | (0.083) | (0.179) | (0.056) | (0.143) |
| Friend/Family's home | **0.841\*\*\*** | **0.514\*\*\*** | **0.591\*\*\*** | **0.560\*\*\*** | **0.442\*\*\*** | 0.167 |
|  | (0.088) | (0.097) | (0.106) | (0.154) | (0.080) | (0.121) |
| Outside | **-0.778\*\*\*** | **-1.244\*\*\*** | **0.532\*\*\*** | -0.165 | -0.353 | -1.338\* |
|  | (0.171) | (0.265) | (0.152) | (0.284) | (0.202) | (0.653) |
| Restaurant/café | **-0.368\*\*\*** | **0.235\*** | **0.693\*\*\*** | **1.040\*\*\*** | **0.799\*\*\*** | **0.683\*\*\*** |
|  | (0.092) | (0.101) | (0.083) | (0.114) | (0.090) | (0.126) |
| Other place | **-0.871\*\*\*** | **-0.819\*\*\*** | **0.480\*\*\*** | **0.342\*** | **0.330\*\*** | **-1.954\*\*\*** |
|  | (0.186) | (0.268) | (0.083) | (0.137) | (0.104) | (0.412) |
| Intercept | -4.150\*\*\* | -6.762\*\*\* | -2.982\*\*\* | -6.712\*\*\* | -2.010\*\*\* | -6.553\*\*\* |
|  | (0.116) | (0.372) | (0.092) | (0.397) | (0.066) | (0.256) |
| SD (Intercept ID) | 0.578 | 0.562 | 0.737 | 0.884 | 1.076 | 1.213 |
| Num.Obs. | 25628 | 25628 | 19544 | 19544 | 26683 | 26683 |
| R2 Marg. | 0.547 | 0.672 | 0.397 | 0.586 | 0.432 | 0.500 |
| R2 Cond. | 0.588 | 0.701 | 0.482 | 0.666 | 0.580 | 0.655 |
| AIC | 18134.2 | 12242.4 | 14899.1 | 5799.6 | 28153.7 | 10947.4 |
| BIC | 18280.9 | 12389.1 | 15041.0 | 5941.5 | 28301.1 | 11094.8 |
| ICC | 0.1 | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 |
| RMSE | 0.33 | 0.27 | 0.33 | 0.20 | 0.31 | 0.18 |
| *Note*. \* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001. Estimates significant at 5% based on Benjamini-Hochberg within sample adjusted p-values appear in bold.. Standard errors within parentheses |

Table A9. Multilevel **regression model results for meat and red meat consumption by meal type interacted with gender**

|  | FranceMeat | FranceRed Meat | SwitzerlandRed meat | SwitzerlandRed meat | NetherlandsMeat | NetherlandsRed meat |
| --- | --- | --- | --- | --- | --- | --- |
| Reference category: Breakfast |  |  |  |  |  |  |
| During the morning | **0.702\*\*\*** | -0.050 | -0.207 | -1.052 | **-1.212\*\*\*** | -0.317 |
|  | (0.230) | (1.143) | (0.213) | (1.592) | (0.115) | (0.936) |
| Lunch | **4.819\*\*\*** | **6.208\*\*\*** | **3.174\*\*\*** | **4.390\*\*\*** | **2.086\*\*\*** | **3.994\*\*\*** |
|  | (0.152) | (0.574) | (0.127) | (0.616) | (0.072) | (0.585) |
| In the afternoon | **0.490\*** | 0.132 | 0.014 | 0.287 | **-0.965\*\*\*** | **1.948\*\*** |
|  | (0.192) | (0.816) | (0.163) | (0.816) | (0.096) | (0.615) |
| Dinner | **3.933\*\*\*** | **4.998\*\*\*** | **3.049\*\*\*** | **4.218\*\*\*** | **3.601\*\*\*** | **6.590\*\*\*** |
|  | (0.151) | (0.575) | (0.126) | (0.617) | (0.077) | (0.580) |
| After dinner snack | -0.484 | 0.006 | -0.131 | 0.158 | **-0.949\*\*\*** | **2.093\*\*\*** |
|  | (0.402) | (1.290) | (0.213) | (1.037) | (0.096) | (0.610) |
| Male | 0.368 | 0.561 | **0.735\*\*\*** | 0.149 | **0.813\*\*\*** | **1.651\*\*** |
|  | (0.208) | (0.772) | (0.148) | (0.824) | (0.091) | (0.637) |
| During the morning × Male | -0.175 | -12.861 | 0.084 | -10.694 | -0.155 | -1.170 |
|  | (0.328) | (517.811) | (0.255) | (243.009) | (0.146) | (1.131) |
| Lunch × Male | -0.249 | -0.369 | -0.167 | 0.189 | **-0.275\*\*** | **-1.728\*\*** |
|  | (0.214) | (0.773) | (0.161) | (0.829) | (0.096) | (0.646) |
| In the afternoon × Male | 0.224 | 0.886 | -0.227 | 0.262 | **-0.469\*\*\*** | -1.351 |
|  | (0.272) | (1.033) | (0.208) | (1.081) | (0.128) | (0.691) |
| Dinner × Male | -0.092 | -0.198 | -0.167 | 0.292 | **-0.256\*** | -1.264\* |
|  | (0.214) | (0.775) | (0.160) | (0.830) | (0.102) | (0.636) |
| After dinner snack × Male | 0.520 | 1.008 | -0.598\* | 0.686 | **-0.550\*\*\*** | **-1.507\*** |
|  | (0.506) | (1.511) | (0.268) | (1.260) | (0.127) | (0.685) |
| Intercept | -4.356\*\*\* | -7.039\*\*\* | -3.303\*\*\* | -6.726\*\*\* | -2.452\*\*\* | -7.789\*\*\* |
|  | (0.148) | (0.573) | (0.119) | (0.612) | (0.070) | (0.581) |
| SD (Intercept ID) | 0.565 | 0.537 | 0.697 | 0.866 | 1.037 | 1.185 |
| Num.Obs. | 25628 | 25628 | 19544 | 19544 | 26826 | 26826 |
| R2 Marg. | 0.540 | 0.811 | 0.398 | 0.778 | 0.431 | 0.504 |
| R2 Cond. | 0.581 | 0.826 | 0.476 | 0.819 | 0.571 | 0.652 |
| AIC | 18316.7 | 12297.1 | 14928.9 | 5915.3 | 28435.7 | 11094.7 |
| BIC | 18422.7 | 12403.1 | 15031.3 | 6017.8 | 28542.3 | 11201.3 |
| ICC | 0.1 | 0.1 | 0.1 | 0.2 | 0.2 | 0.3 |
| RMSE | 0.33 | 0.27 | 0.33 | 0.20 | 0.31 | 0.18 |

*Note*. \* p < 0.05, \*\*\* p < 0.01, \*\*\* p < 0.001. Estimates significant at 5% based on Benjamini-Hochberg within sample adjusted p-values appear in bold. Standard errors within parentheses.

Table A10. Multilevel **regression model results for meat and red meat consumption by day of the week interacted with gender**

|  | FranceMeat | FranceRed meat | SwitzerlandMeat | SwitzerlandRed meat | Netherlands Meat | NetherlandsRed meat |
| --- | --- | --- | --- | --- | --- | --- |
| Reference category: Monday |  |  |  |  |  |  |
| Tuesday | -0.128 | -0.154 | -0.009 | -0.243 | -0.163\* | -0.254 |
|  | (0.067) | (0.096) | (0.100) | (0.195) | (0.076) | (0.133) |
| Wednesday | -0.008 | 0.006 | -0.014 | -0.211 | -0.161\* | -0.104 |
|  | (0.075) | (0.106) | (0.102) | (0.199) | (0.074) | (0.125) |
| Thursday | **-0.201\*\*\*** | -0.034 | 0.092 | -0.515 | -0.134 | -0.074 |
|  | (0.074) | (0.102) | (0.102) | (0.216) | (0.080) | (0.134) |
| Friday | **-0.236\*\*\*** | -0.099 | -0.214 | -0.324 | -0.152 | -0.205 |
|  | (0.088) | (0.122) | (0.107) | (0.208) | (0.080) | (0.138) |
| Saturday | -0.054 | -0.065 | 0.089 | -0.046 | -0.085 | **-0.302\*** |
|  | (0.080) | (0.114) | (0.106) | (0.204) | (0.078) | (0.137) |
| Sunday | -0.019 | -0.063 | 0.246 | 0.222 | -0.022 | -0.009 |
|  | (0.070) | (0.100) | (0.100) | (0.185) | (0.072) | (0.122) |
| Male | 0.071 | 0.127 | 0.359\*\*\* | 0.094 | **0.174\*** | 0.130 |
|  | (0.079) | (0.109) | (0.096) | (0.183) | (0.077) | (0.127) |
| Tuesday × Male | 0.118 | 0.243 | -0.069 | 0.282 | **0.235\*** | 0.283 |
|  | (0.103) | (0.143) | (0.137) | (0.265) | (0.104) | (0.179) |
| Wednesday × Male | 0.016 | 0.226 | -0.022 | 0.022 | **0.237\*** | 0.087 |
|  | (0.117) | (0.158) | (0.136) | (0.269) | (0.105) | (0.176) |
| Thursday × Male | 0.171 | -0.050 | -0.098 | 0.403 | 0.126 | -0.088 |
|  | (0.111) | (0.153) | (0.138) | (0.286) | (0.109) | (0.184) |
| Friday × Male | 0.199 | 0.052 | **0.414\*\*\*** | 0.495 | 0.103 | 0.042 |
|  | (0.130) | (0.180) | (0.139) | (0.269) | (0.109) | (0.188) |
| Saturday × Male | 0.067 | 0.150 | 0.039 | 0.231 | 0.077 | 0.253 |
|  | (0.121) | (0.166) | (0.142) | (0.272) | (0.107) | (0.184) |
| Sunday × Male | 0.146 | 0.156 | -0.144 | 0.325 | 0.105 | 0.126 |
|  | (0.107) | (0.149) | (0.138) | (0.252) | (0.103) | (0.172) |
| (Intercept) | -1.081\*\*\* | -2.183\*\*\* | -1.407\*\*\* | -3.193\*\*\* | -1.208\*\*\* | -2.962\*\*\* |
|  | (0.052) | (0.074) | (0.072) | (0.138) | (0.055) | (0.092) |
| SD (Intercept ID) | 0.289 | 0.391 | 0.394 | 0.758 | 0.595 | 0.742 |
| Num.Obs. | 25628 | 25628 | 19544 | 19544 | 26826 | 26826 |
| R2 Marg. | 0.004 | 0.006 | 0.012 | 0.018 | 0.007 | 0.006 |
| R2 Cond. | 0.028 | 0.050 | 0.057 | 0.164 | 0.104 | 0.149 |
| AIC | 28243.2 | 17299.9 | 20611.4 | 7548.9 | 44447.3 | 18204.4 |
| BIC | 28365.5 | 17422.1 | 20729.6 | 7667.1 | 44570.3 | 18327.3 |
| ICC | 0.0 | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 |
| RMSE | 0.43 | 0.31 | 0.41 | 0.21 | 0.41 | 0.23 |
| *Note*. \* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001. Estimates significant at 5% based on Benjamini-Hochberg within sample adjusted p-values appear in bold. Standard errors within parentheses |

Table A11. Multilevel **regression model results for meat and red meat consumption by location interacted with gender**

|  | FranceMeat | FranceRed Meat | Switzerland Meat | SwitzerlandRed meat | NetherlandsMeat | NetherlandsRed meat |
| --- | --- | --- | --- | --- | --- | --- |
| Refence category: At home |
| Work | **-0.218\*\*** | -0.113 | **-0.795\*\*\*** | **-1.212\*\*\*** | **-0.477\*\*\*** | **-2.034\*\*\*** |
|  | (0.073) | (0.103) | (0.101) | (0.258) | (0.062) | (0.200) |
| Friend/Family's home | **0.727\*\*\*** | **0.633\*\*\*** | **0.806\*\*\*** | 0.466\* | 0.102 | **0.335\*\*** |
|  | (0.080) | (0.106) | (0.113) | (0.217) | (0.076) | (0.121) |
| Outside | **-0.746\*\*\*** | **-1.414\*\*\*** | 0.345\* | -0.406 | **-1.082\*\*\*** | **-2.814\*\*** |
|  | (0.186) | (0.395) | (0.169) | (0.432) | (0.228) | (1.058) |
| Restaurant/café | **0.492\*\*\*** | **1.028\*\*\*** | **0.862\*\*\*** | **1.048\*\*\*** | **0.776\*\*\*** | **0.833\*\*\*** |
|  | (0.111) | (0.128) | (0.104) | (0.167) | (0.093) | (0.138) |
| Other place | **-1.401\*\*\*** | **-1.345\*\*\*** | **0.290\*\*** | -0.009 | **-0.922\*\*\*** | **-2.018\*\*\*** |
|  | (0.208) | (0.330) | (0.100) | (0.210) | (0.132) | (0.413) |
| Male | **0.174\*\*\*** | **0.228\*\*\*** | **0.334\*\*\*** | 0.111 | **0.291\*\*\*** | **0.322\*\*\*** |
|  | (0.036) | (0.051) | (0.049) | (0.098) | (0.042) | (0.065) |
| Work × Male | 0.031 | 0.234 | 0.253\* | 0.228 | **0.204\*\*** | 0.101 |
|  | (0.108) | (0.145) | (0.128) | (0.330) | (0.078) | (0.247) |
| Friend/Family's home × Male | -0.132 | -0.129 | -0.079 | **0.819\*\*** | -0.126 | **-0.410\*** |
|  | (0.127) | (0.165) | (0.167) | (0.284) | (0.109) | (0.180) |
| Outside × Male | 0.014 | 0.443 | 0.027 | 0.481 | 0.226 | 0.631 |
|  | (0.268) | (0.508) | (0.231) | (0.541) | (0.313) | (1.288) |
| Restaurant/cafe × Male | 0.042 | -0.176 | -0.060 | 0.361 | 0.077 | 0.009 |
|  | (0.153) | (0.179) | (0.133) | (0.209) | (0.127) | (0.186) |
| Other place × Male | 0.163 | -0.044 | 0.232 | **0.647\*** | 0.203 | -1.297+ |
|  | (0.298) | (0.485) | (0.130) | (0.257) | (0.168) | (0.697) |
| Intercept | -1.175\*\*\* | -2.285\*\*\* | -1.431\*\*\* | -3.351\*\*\* | -1.259\*\*\* | -2.999\*\*\* |
|  | (0.024) | (0.036) | (0.036) | (0.078) | (0.030) | (0.050) |
| SD (Intercept ID) | 0.285 | 0.400 | 0.423 | 0.762 | 0.611 | 0.797 |
| Num.Obs. | 25628 | 25628 | 19544 | 19544 | 26683 | 26683 |
| R2 Marg. | 0.029 | 0.039 | 0.052 | 0.081 | 0.025 | 0.163 |
| R2 Cond. | 0.052 | 0.084 | 0.101 | 0.219 | 0.124 | 0.298 |
| AIC | 27927.7 | 17076.4 | 20191.8 | 7300.2 | 43741.0 | 17360.9 |
| BIC | 28033.6 | 17182.3 | 20294.3 | 7402.7 | 43847.5 | 17467.4 |
| ICC | 0.0 | 0.0 | 0.1 | 0.1 | 0.1 | 0.2 |
| RMSE | 0.43 | 0.31 | 0.41 | 0.21 | 0.41 | 0.23 |
| *Note*. \* p < 0.05, \*\* p < 0.01, \*\*\* p < 0.001. Estimates significant at 5% based on Benjamini-Hochberg within sample adjusted p-values appear in bold. Standard errors within parentheses |