**SUPPLEMENTARY FILE**

This supplementary file includes the logistic regression models for the outcomes of objective binge eating (Table S1), strict dieting/fasting (Table S2), and purging (Table S3). The independent (predictor) variables include those demographic variables in the main analyses of the manuscript, with the addition of interaction terms between survey year and each demographic variable.

***Table S1****. Interaction Model for Objective Binge Eating.*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Parameter** |  |  | **AOR** | **95%** | **CI** |
|  |
|  |  |  |  |  |  |
| **ARIA** |  |  | 1.07047 | 0.1368 | 7.75555 |
| **education** | **2** |  | 2.65674 | 0.07641 | 30.5815 |
|  | **3** |  | 3.01108 | 0.06824 | 38.1752 |
|  | **4** |  | 4.57863 | 0.04353 | 86.1181 |
|  | **5** |  | 3.59412 | 0.05723 | 53.0812 |
|  | **1** |  |  |  |  |
| **Sex** | **Male** |  | 0.99206 | 0.14133 | 7.02704 |
|  | **Female** |  |  |  |  |
| **Age** |  |  | 0.95609 | 0.14347 | 6.70364 |
| **Marital** | **1** |  | 1.72616 | 0.10568 | 15.2026 |
|  | **0** |  |  |  |  |
| **BMI** |  |  | 1.09604 | 0.13536 | 8.00012 |
| **Survey year** | **2008** |  | 4.31285 | 0.04675 | 76.1312 |
|  | **2009** |  | 2.28348 | 0.08657 | 23.6647 |
|  | **2016** |  | 2.67353 | 0.07599 | 30.9181 |
|  | **2017** |  | 3.9452 | 0.05175 | 63.6508 |
|  | **1998** |  |  |  |  |
| **Work status** | **1** |  | 0.53328 | 0.17123 | 3.38258 |
|  | **0** |  |  |  |  |
| **education\*survey\_year** | **2** | **2008** | 0.24537 | 0.18732 | 1.57552 |
| **education\*survey\_year** | **2** | **2009** | 0.95829 | 0.14333 | 6.72324 |
| **education\*survey\_year** | **2** | **2016** | 1.06663 | 0.13701 | 7.71905 |
| **education\*survey\_year** | **2** | **2017** | 0.4533 | 0.17664 | 2.84745 |
| **education\*survey\_year** | **2** | **1998** |  |  |  |
| **education\*survey\_year** | **3** | **2008** | 0.47568 | 0.17515 | 2.99445 |
| **education\*survey\_year** | **3** | **2009** | 0.9233 | 0.14545 | 6.41462 |
| **education\*survey\_year** | **3** | **2016** | 1.17163 | 0.13123 | 8.74403 |
| **education\*survey\_year** | **3** | **2017** | 0.58967 | 0.16736 | 3.77664 |
| **education\*survey\_year** | **3** | **1998** |  |  |  |
| **education\*survey\_year** | **4** | **2008** | 0.28619 | 0.18605 | 1.81308 |
| **education\*survey\_year** | **4** | **2009** | 0.4426 | 0.17734 | 2.77789 |
| **education\*survey\_year** | **4** | **2016** | 0.49194 | 0.17405 | 3.10253 |
| **education\*survey\_year** | **4** | **2017** | 0.27066 | 0.18662 | 1.72209 |
| **education\*survey\_year** | **4** | **1998** |  |  |  |
| Note. AOR = adjusted odds ratio, CI = confidence interval, ARIA = accessibility remoteness index of Australia, BMI = body mass percentile. Significant effects are in bold format. Levels of categorical predictors: Education: 1=Still at school, 2=Left school, 3=Trade qualification, 4=Certificate, 5=Bachelor; Marital status: 0=Married/De Facto, 1=separated/divorced/widowed/never married, Work status: 1=full time/ part time/student, 0=other. | | | | | |

***Table S1 (cont.)****. Interaction Model for Objective Binge Eating.*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Parameter** |  |  | **AOR** | **95%** | **CI** |
|  |
| **education\*survey\_year** | **5** | **2008** | 0.15207 | 0.18582 | 1.04819 |
| **education\*survey\_year** | **5** | **2009** | 0.57379 | 0.16845 | 3.66421 |
| **education\*survey\_year** | **5** | **2016** | 1.0834 | 0.13607 | 7.87875 |
| **education\*survey\_year** | **5** | **2017** | 0.26788 | 0.18671 | 1.70592 |
| **education\*survey\_year** | **5** | **1998** |  |  |  |
| **education\*survey\_year** | **1** | **2008** |  |  |  |
| **education\*survey\_year** | **1** | **2009** |  |  |  |
| **education\*survey\_year** | **1** | **2016** |  |  |  |
| **education\*survey\_year** | **1** | **2017** |  |  |  |
| **education\*survey\_year** | **1** | **1998** |  |  |  |
| **sex\*survey\_year** | **Male** | **2008** | 0.6152 | 0.1656 | 3.95986 |
| **sex\*survey\_year** | **Male** | **2009** | 0.70019 | 0.15982 | 4.59127 |
| **sex\*survey\_year** | **Male** | **2016** | 0.94535 | 0.14411 | 6.60835 |
| **sex\*survey\_year** | **Male** | **2017** | 1.05075 | 0.13792 | 7.56921 |
| **sex\*survey\_year** | **Male** | **1998** |  |  |  |
| **sex\*survey\_year** | **Female** | **2008** |  |  |  |
| **sex\*survey\_year** | **Female** | **2009** |  |  |  |
| **sex\*survey\_year** | **Female** | **2016** |  |  |  |
| **sex\*survey\_year** | **Female** | **2017** |  |  |  |
| **sex\*survey\_year** | **Female** | **1998** |  |  |  |
| **age\*survey\_year** | **2008** |  | 1.01359 | 0.14006 | 7.22385 |
| **age\*survey\_year** | **2009** |  | 1.01471 | 0.14 | 7.23411 |
| **age\*survey\_year** | **2016** |  | 1.01481 | 0.13999 | 7.23505 |
| **age\*survey\_year** | **2017** |  | 1.02092 | 0.13964 | 7.29136 |
| **age\*survey\_year** | **1998** |  |  |  |  |
| **Marital status\*survey\_year** | **1** | **2008** | 0.9905 | 0.14142 | 7.01282 |
| **Marital status \*survey\_year** | **1** | **2009** | 0.75299 | 0.1563 | 5.00073 |
| **Marital status \*survey\_year** | **1** | **2016** | 0.7406 | 0.15712 | 4.9034 |
| **Marital status \*survey\_year** | **1** | **2017** | 0.5184 | 0.17225 | 3.28093 |
| **Marital status \*survey\_year** | **1** | **1998** |  |  |  |
| **Marital status \*survey\_year** | **0** | **2008** |  |  |  |
| **Marital status \*survey\_year** | **0** | **2009** |  |  |  |
| **Marital status \*survey\_year** | **0** | **2016** |  |  |  |
| **Marital status \*survey\_year** | **0** | **2017** |  |  |  |
| **Marital status \*survey\_year** | **0** | **1998** |  |  |  |
| **Work status\*survey\_year** | **1** | **2008** | 1.25383 | 0.12693 | 9.58844 |
| **Work status\*survey\_year** | **1** | **2009** | 1.80327 | 0.1027 | 16.2493 |
| **Work status\*survey\_year** | **1** | **2016** | 2.3129 | 0.0857 | 24.1717 |
| **Work status\*survey\_year** | **1** | **2017** | 2.23156 | 0.08813 | 22.7852 |
| **Work status\*survey\_year** | **1** | **1998** |  |  |  |
| **Work status\*survey\_year** | **0** | **2008** |  |  |  |
| **Work status\*survey\_year** | **0** | **2009** |  |  |  |
| **Work status\*survey\_year** | **0** | **2016** |  |  |  |
| **Work status\*survey\_year** | **0** | **2017** |  |  |  |
| **Work status\*survey\_year** | **0** | **1998** |  |  |  |
| Note. AOR = adjusted odds ratio, CI = confidence interval, ARIA = accessibility remoteness index of Australia, BMI = body mass percentile. Significant effects are in bold format. Levels of categorical predictors: Education: 1=Still at school, 2=Left school, 3=Trade qualification, 4=Certificate, 5=Bachelor; Marital status: 0=Married/De Facto, 1=separated/divorced/widowed/never married, Work status: 1=full time/ part time/student, 0=other. | | | | | |

***Table S2****. Interaction Model for Fast Dieting.*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Parameter** |  |  | **AOR** | **95%** | **CI** |
|  |
|  |  |  |  |  |  |
| **ARIA** |  |  | 1.0245 | 2.62004 | 2.96181 |
| **Education** | **2** |  | 6.00444 | 46.0758 | 3563.87 |
|  | **3** |  | 18.61 | 1.2E+07 | 1.2E+09 |
|  | **4** |  | 8.51816 | 617.137 | 40587.8 |
|  | **5** |  | 7.41274 | 179.657 | 15281.9 |
|  | **1** |  |  |  |  |
| **Sex** | **Male** |  | 0.14888 | 0.37948 | 3.54916 |
|  | **Female** |  |  |  |  |
| **Age** |  |  | 0.95132 | 2.53349 | 2.64601 |
| **Marital status** | **1** |  | 2.47317 | 5.63056 | 24.9813 |
|  | **0** |  |  |  |  |
| **BMI** |  |  | 1.06588 | 2.8639 | 2.94343 |
| **Year** | **2008** |  | 5.8264 | 20.4992 | 5610.64 |
| **Year** | **2009** |  | 12.0083 | 12537.3 | 2148286 |
| **Year** | **2016** |  | 10.919 | 3838.4 | 794203 |
| **Year** | **2017** |  | 12.2215 | 14739.3 | 2799100 |
| **Year** | **1998** |  |  |  |  |
| **Work status** | **1** |  | 0.95171 | 1.25619 | 5.34053 |
|  | **0** |  |  |  |  |
| **Education\*Year** | **2** | **2008** | 0.39255 | 0.10358 | 21.1678 |
| **Education\*Year** | **2** | **2009** | 0.10944 | 0.09996 | 12.4513 |
| **Education\*Year** | **2** | **2016** | 0.11566 | 0.09369 | 13.451 |
| **Education\*Year** | **2** | **2017** | 0.09342 | 0.09355 | 12.885 |
| **Education\*Year** | **2** | **1998** |  |  |  |
| **Education\*Year** | **3** | **2008** | 0.25289 | 0.07648 | 21.6837 |
| **Education\*Year** | **3** | **2009** | 0.06229 | 0.07733 | 14.6465 |
| **Education\*Year** | **3** | **2016** | 0.07427 | 0.07614 | 15.237 |
| **Education\*Year** | **3** | **2017** | 0.0453 | 0.07566 | 14.4697 |
| **Education\*Year** | **3** | **1998** |  |  |  |
| **Education\*Year** | **4** | **2008** | 0.40959 | 0.11056 | 20.5202 |
| **Education\*Year** | **4** | **2009** | 0.18485 | 0.11697 | 12.3736 |
| **Education\*Year** | **4** | **2016** | 0.06789 | 0.09685 | 11.827 |
| **Education\*Year** | **4** | **2017** | 0.15782 | 0.10954 | 12.5177 |
| **Education\*Year** | **4** | **1998** |  |  |  |
| **Education\*Year** | **5** | **2008** | 0.32792 | 0.09053 | 21.2825 |
| **Education\*Year** | **5** | **2009** | 0.13593 | 0.09769 | 13.434 |
| **Education\*Year** | **5** | **2016** | 0.08596 | 0.08757 | 13.5608 |
| **Education\*Year** | **5** | **2017** | 0.13929 | 0.09499 | 13.9096 |
| **Education\*Year** | **5** | **1998** |  |  |  |
| Note. AOR = adjusted odds ratio, CI = confidence interval, ARIA = accessibility remoteness index of Australia, BMI = body mass percentile. Significant effects are in bold format. Levels of categorical predictors: Education: 1=Still at school, 2=Left school, 3=Trade qualification, 4=Certificate, 5=Bachelor; Marital status: 0=Married/De Facto, 1=separated/divorced/widowed/never married, Work status: 1=full time/ part time/student, 0=other. | | | | | |  |

***Table S2 (cont.)****. Interaction Model for Fast Dieting.*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Parameter** |  |  | **AOR** | **95%** | **CI** |
|  |
| **Education\*Year** | **1** | **2008** |  |  |  |
| **Education\*Year** | **1** | **2009** |  |  |  |
| **Education\*Year** | **1** | **2016** |  |  |  |
| **Education\*Year** | **1** | **2017** |  |  |  |
| **Education\*Year** | **1** | **1998** |  |  |  |
| **sex\*Year** | **Male** | **2008** | 3.25535 | 7.59526 | 88.5154 |
| **sex\*Year** | **Male** | **2009** | 1.73014 | 1.62204 | 19.6207 |
| **sex\*Year** | **Male** | **2016** | 1.69723 | 1.60651 | 18.5488 |
| **sex\*Year** | **Male** | **2017** | 3.84203 | 14.0132 | 155.097 |
| **sex\*Year** | **Male** | **1998** |  |  |  |
| **sex\*Year** | **Female** | **2008** |  |  |  |
| **sex\*Year** | **Female** | **2009** |  |  |  |
| **sex\*Year** | **Female** | **2016** |  |  |  |
| **sex\*Year** | **Female** | **2017** |  |  |  |
| **sex\*Year** | **Female** | **1998** |  |  |  |
| **age\*Year** | **2008** |  | 1.01157 | 2.68142 | 2.82014 |
| **age\*Year** | **2009** |  | 1.01481 | 2.68752 | 2.83204 |
| **age\*Year** | **2016** |  | 1.02963 | 2.7303 | 2.87155 |
| **age\*Year** | **2017** |  | 1.01867 | 2.70107 | 2.8397 |
| **age\*Year** | **1998** |  |  |  |  |
| **maritalstatus\*Year** | **1** | **2008** | 0.4453 | 0.65505 | 3.71972 |
| **maritalstatus\*Year** | **1** | **2009** | 0.41309 | 0.64271 | 3.55458 |
| **maritalstatus\*Year** | **1** | **2016** | 0.40515 | 0.63061 | 3.5657 |
| **maritalstatus\*Year** | **1** | **2017** | 0.42648 | 0.65352 | 3.59064 |
| **maritalstatus\*Year** | **1** | **1998** |  |  |  |
| **maritalstatus\*Year** | **0** | **2008** |  |  |  |
| **maritalstatus\*Year** | **0** | **2009** |  |  |  |
| **maritalstatus\*Year** | **0** | **2016** |  |  |  |
| **maritalstatus\*Year** | **0** | **2017** |  |  |  |
| **maritalstatus\*Year** | **0** | **1998** |  |  |  |
| **workstatus\*Year** | **1** | **2008** | 0.6405 | 0.77868 | 4.62353 |
| **workstatus\*Year** | **1** | **2009** | 1.5952 | 2.00301 | 12.1308 |
| **workstatus\*Year** | **1** | **2016** | 1.28018 | 1.50988 | 8.57053 |
| **workstatus\*Year** | **1** | **2017** | 1.18661 | 1.38357 | 7.75666 |
| **workstatus\*Year** | **1** | **1998** |  | . | . |
| **workstatus\*Year** | **0** | **2008** |  | . | . |
| **workstatus\*Year** | **0** | **2009** |  | . | . |
| **workstatus\*Year** | **0** | **2016** |  | . | . |
| **workstatus\*Year** | **0** | **2017** |  | . | . |
| **workstatus\*Year** | **0** | **1998** |  | . | . |
| Note. AOR = adjusted odds ratio, CI = confidence interval, ARIA = accessibility remoteness index of Australia, BMI = body mass percentile. Significant effects are in bold format. Levels of categorical predictors: Education: 1=Still at school, 2=Left school, 3=Trade qualification, 4=Certificate, 5=Bachelor; Marital status: 0=Married/De Facto, 1=separated/divorced/widowed/never married, Work status: 1=full time/ part time/student, 0=other. | | | | | |  |

***Table S3****. Interaction Model for Purging.*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Parameter** |  |  | **AOR** | **95%** | **CI** |
|  |
|  |  |  |  |  |  |
| **ARIA** |  |  | 0.9396 | 2.19575 | 2.98225 |
| **Education** | **2** |  | 1.48706 | 1.13099 | 17.3055 |
|  | **3** |  | 1.83878 | 1.4645 | 27.0054 |
|  | **4** |  | 2.13251 | 2.03826 | 34.9152 |
|  | **5** |  | 1.30161 | 0.8885 | 15.2021 |
|  | **1** |  |  |  |  |
| **Sex** | **Male** |  | 0.24109 | 0.71663 | 2.26 |
|  | **Female** |  |  |  |  |
| **Age** |  |  | 0.95066 | 2.50753 | 2.66984 |
| **Marital status** | **1** |  | 1.66346 | 2.10439 | 13.2354 |
|  | **0** |  |  |  |  |
| **BMI** |  |  | 1.05201 | 2.78207 | 2.94709 |
| **Year** | **2008** |  | 0.18079 | 0.13583 | 10.5694 |
|  | **2009** |  | 0.18697 | 0.15397 | 9.44014 |
|  | **2016** |  | 0.15888 | 0.12765 | 10.7642 |
|  | **2017** |  | 0.15612 | 0.07086 | 19.2848 |
|  | **1998** |  |  |  |  |
| **Work status** | **1** |  | 0.65038 | 0.73171 | 5.0185 |
|  | **0** |  |  |  |  |
| **age\*Year** | **2008** |  | 1.0378 | 2.71926 | 2.93068 |
| **age\*Year** | **2009** |  | 1.03448 | 2.71132 | 2.91983 |
| **age\*Year** | **2016** |  | 1.05043 | 2.76086 | 2.96038 |
| **age\*Year** | **2017** |  | 1.02224 | 2.64133 | 2.92473 |
| **age\*Year** | **1998** |  |  |  |  |
| **maritalstatus\*Year** | **1** | **2008** | 0.67746 | 0.60268 | 6.43211 |
| **maritalstatus\*Year** | **1** | **2009** | 1.57886 | 1.43858 | 16.3472 |
| **maritalstatus\*Year** | **1** | **2016** | 0.52477 | 0.48294 | 5.91448 |
| **maritalstatus\*Year** | **1** | **2017** | 0.92635 | 0.64167 | 9.93827 |
| **maritalstatus\*Year** | **1** | **1998** |  |  |  |
| **maritalstatus\*Year** | **0** | **2008** |  |  |  |
| **maritalstatus\*Year** | **0** | **2009** |  |  |  |
| **maritalstatus\*Year** | **0** | **2016** |  |  |  |
| **maritalstatus\*Year** | **0** | **2017** |  |  |  |
| **maritalstatus\*Year** | **0** | **1998** |  |  |  |
| **workstatus\*Year** | **1** | **2008** | 2.13614 | 2.43601 | 29.4271 |
| **workstatus\*Year** | **1** | **2009** | 0.921 | 0.74323 | 8.48877 |
| **workstatus\*Year** | **1** | **2016** | 0.98955 | 0.66477 | 10.8854 |
| **workstatus\*Year** | **1** | **2017** | 2.19263 | 1.97174 | 40.7043 |
| **workstatus\*Year** | **1** | **1998** | 0 | . | . |
| **workstatus\*Year** | **0** | **2008** | 0 | . | . |
| **workstatus\*Year** | **0** | **2009** | 0 | . | . |
| **workstatus\*Year** | **0** | **2016** | 0 | . | . |
| **workstatus\*Year** | **0** | **2017** | 0 | . | . |
| **workstatus\*Year** | **0** | **1998** | 0 | . | . |
| Note. AOR = adjusted odds ratio, CI = confidence interval, ARIA = accessibility remoteness index of Australia, BMI = body mass percentile. Significant effects are in bold format. Levels of categorical predictors: Education: 1=Still at school, 2=Left school, 3=Trade qualification, 4=Certificate, 5=Bachelor; Marital status: 0=Married/De Facto, 1=separated/divorced/widowed/never married, Work status: 1=full time/ part time/student, 0=other. | | | | | |