Table 1: Balance statistics: etpa

| variable | unadj. correlation | adj. correlation | threshold | adj. KS |
| --- | --- | --- | --- | --- |
| binary | | | | |
| hs\_date\_neu\_summer | 0.070 | 0.073 | Balanced, <0.1 | 0.002 |
| hs\_tob\_4 | 0.035 | 0.051 | Balanced, <0.1 | 0.001 |
| cohort\_BIB | 0.098 | 0.036 | Balanced, <0.1 | 0.004 |
| hs\_wrk\_m\_4 | 0.091 | 0.028 | Balanced, <0.1 | 0.002 |
| cohort\_EDEN | 0.012 | 0.025 | Balanced, <0.1 | 0.001 |
| hs\_tob\_5 | 0.002 | 0.018 | Balanced, <0.1 | 0.000 |
| e3\_asmokyn\_p\_2 | 0.030 | 0.017 | Balanced, <0.1 | 0.000 |
| hs\_finance\_3 | -0.008 | 0.015 | Balanced, <0.1 | 0.001 |
| hs\_finance\_2 | 0.033 | 0.008 | Balanced, <0.1 | 0.000 |
| e3\_marital\_0 | -0.005 | 0.008 | Balanced, <0.1 | 0.000 |
| hs\_qual\_test\_1 | 0.011 | 0.007 | Balanced, <0.1 | 0.001 |
| hs\_wrk\_m\_5 | -0.001 | 0.000 | Balanced, <0.1 | 0.000 |
| hs\_wrk\_m\_6 | -0.002 | -0.001 | Balanced, <0.1 | 0.000 |
| hs\_qual\_test\_3 | -0.003 | -0.002 | Balanced, <0.1 | 0.000 |
| e3\_marital\_2 | 0.023 | -0.002 | Balanced, <0.1 | 0.000 |
| hs\_finance\_4 | 0.015 | -0.002 | Balanced, <0.1 | 0.001 |
| cohort\_SAB | -0.008 | -0.003 | Balanced, <0.1 | 0.000 |
| hs\_wrk\_m\_3 | -0.007 | -0.004 | Balanced, <0.1 | 0.000 |
| hs\_wrk\_m\_8 | -0.007 | -0.005 | Balanced, <0.1 | 0.000 |
| hs\_finance\_6 | -0.007 | -0.005 | Balanced, <0.1 | 0.000 |
| hs\_wrk\_m\_1 | -0.043 | -0.005 | Balanced, <0.1 | 0.003 |
| hs\_qual\_test\_2 | -0.011 | -0.006 | Balanced, <0.1 | 0.001 |
| hs\_finance\_5 | -0.013 | -0.008 | Balanced, <0.1 | 0.000 |
| hs\_tob\_2 | -0.021 | -0.008 | Balanced, <0.1 | 0.001 |
| e3\_marital\_1 | -0.013 | -0.008 | Balanced, <0.1 | 0.000 |
| hs\_wrk\_m\_7 | -0.013 | -0.009 | Balanced, <0.1 | 0.000 |
| hs\_neuro\_diag\_2 | -0.019 | -0.010 | Balanced, <0.1 | 0.000 |
| cohort\_MOBA | -0.030 | -0.013 | Balanced, <0.1 | 0.002 |
| hs\_wrk\_m\_2 | -0.025 | -0.017 | Balanced, <0.1 | 0.000 |
| hs\_finance\_1 | -0.028 | -0.017 | Balanced, <0.1 | 0.001 |
| hs\_tob\_1 | 0.017 | -0.017 | Balanced, <0.1 | 0.000 |
| hs\_tob\_3 | -0.027 | -0.019 | Balanced, <0.1 | 0.001 |
| cohort\_KANC | -0.033 | -0.020 | Balanced, <0.1 | 0.001 |
| hs\_date\_neu\_spring | -0.039 | -0.020 | Balanced, <0.1 | 0.000 |
| hs\_date\_neu\_autumn | 0.020 | -0.021 | Balanced, <0.1 | 0.001 |
| cohort\_RHEA | -0.035 | -0.022 | Balanced, <0.1 | 0.000 |
| e3\_psmokanyt\_2 | 0.009 | -0.023 | Balanced, <0.1 | 0.002 |
| hs\_date\_neu\_winter | -0.047 | -0.029 | Balanced, <0.1 | 0.000 |
| continuous | | | | |
| h\_pm25\_ratio\_t1³ | 0.042 | 0.055 | Balanced, <0.1 | 0.002 |
| h\_pm25\_ratio\_t1² | 0.033 | 0.044 | Balanced, <0.1 | 0.002 |
| hs\_org\_food | 0.010 | 0.039 | Balanced, <0.1 | 0.002 |
| hs\_age\_years³ | 0.012 | 0.036 | Balanced, <0.1 | 0.003 |
| h\_pm25\_ratio\_t1 | 0.027 | 0.034 | Balanced, <0.1 | 0.002 |
| hs\_age\_years² | 0.007 | 0.032 | Balanced, <0.1 | 0.003 |
| h\_no2\_ratio\_t1 | 0.027 | 0.030 | Balanced, <0.1 | 0.003 |
| hs\_age\_years | 0.004 | 0.029 | Balanced, <0.1 | 0.003 |
| hs\_total\_fruits | 0.058 | 0.028 | Balanced, <0.1 | 0.002 |
| h\_pm25\_ratio\_t2 | 0.040 | 0.027 | Balanced, <0.1 | 0.002 |
| h\_pm25\_ratio\_t2² | 0.034 | 0.025 | Balanced, <0.1 | 0.002 |
| hs\_org\_food² | 0.005 | 0.025 | Balanced, <0.1 | 0.002 |
| h\_pm25\_ratio\_t2³ | 0.026 | 0.021 | Balanced, <0.1 | 0.002 |
| hs\_total\_veg | 0.007 | 0.021 | Balanced, <0.1 | 0.002 |
| e3\_bw³ | -0.002 | 0.021 | Balanced, <0.1 | 0.002 |
| e3\_bw² | -0.005 | 0.021 | Balanced, <0.1 | 0.002 |
| hs\_cd\_c | 0.027 | 0.020 | Balanced, <0.1 | 0.002 |
| e3\_bw | -0.012 | 0.019 | Balanced, <0.1 | 0.002 |
| h\_no2\_ratio\_t2 | 0.036 | 0.019 | Balanced, <0.1 | 0.001 |
| hs\_total\_fruits² | 0.049 | 0.018 | Balanced, <0.1 | 0.002 |
| h\_no2\_ratio\_t1² | 0.011 | 0.018 | Balanced, <0.1 | 0.003 |
| e3\_gac³ | -0.019 | 0.017 | Balanced, <0.1 | 0.002 |
| e3\_gac² | -0.023 | 0.016 | Balanced, <0.1 | 0.002 |
| hs\_head\_circ | 0.014 | 0.016 | Balanced, <0.1 | 0.002 |
| hs\_head\_circ² | 0.014 | 0.016 | Balanced, <0.1 | 0.002 |
| h\_no2\_ratio\_t3 | 0.030 | 0.015 | Balanced, <0.1 | 0.002 |
| e3\_gac | -0.027 | 0.015 | Balanced, <0.1 | 0.002 |
| hs\_head\_circ³ | 0.013 | 0.015 | Balanced, <0.1 | 0.002 |
| hs\_org\_food³ | -0.001 | 0.015 | Balanced, <0.1 | 0.002 |
| FAS\_score | -0.019 | 0.012 | Balanced, <0.1 | 0.002 |
| hs\_waist | -0.011 | 0.012 | Balanced, <0.1 | 0.002 |
| h\_no2\_ratio\_t2² | 0.022 | 0.011 | Balanced, <0.1 | 0.001 |
| hs\_waist² | -0.010 | 0.011 | Balanced, <0.1 | 0.002 |
| hs\_waist³ | -0.008 | 0.010 | Balanced, <0.1 | 0.002 |
| FAS\_score² | -0.023 | 0.009 | Balanced, <0.1 | 0.002 |
| h\_pm25\_ratio\_t3 | 0.009 | 0.009 | Balanced, <0.1 | 0.002 |
| h\_no2\_ratio\_t3² | 0.017 | 0.009 | Balanced, <0.1 | 0.002 |
| hs\_total\_fruits³ | 0.041 | 0.008 | Balanced, <0.1 | 0.002 |
| hs\_total\_veg² | -0.007 | 0.007 | Balanced, <0.1 | 0.002 |
| FAS\_score³ | -0.025 | 0.007 | Balanced, <0.1 | 0.002 |
| h\_no2\_ratio\_t1³ | -0.001 | 0.007 | Balanced, <0.1 | 0.003 |
| h\_pm25\_ratio\_t3² | 0.002 | 0.006 | Balanced, <0.1 | 0.002 |
| h\_no2\_ratio\_t2³ | 0.011 | 0.005 | Balanced, <0.1 | 0.001 |
| h\_no2\_ratio\_t3³ | 0.008 | 0.004 | Balanced, <0.1 | 0.002 |
| h\_pm25\_ratio\_t3³ | -0.004 | 0.003 | Balanced, <0.1 | 0.002 |
| hs\_cu\_c | 0.000 | 0.002 | Balanced, <0.1 | 0.003 |
| hs\_no2\_dy\_hs\_t | 0.020 | 0.001 | Balanced, <0.1 | 0.002 |
| hs\_cu\_c² | -0.003 | 0.000 | Balanced, <0.1 | 0.003 |
| hs\_cd\_c² | 0.001 | 0.000 | Balanced, <0.1 | 0.002 |
| e3\_asmokcigd\_t2³ | -0.002 | -0.001 | Balanced, <0.1 | 0.001 |
| e3\_asmokcigd\_t3³ | -0.002 | -0.001 | Balanced, <0.1 | 0.001 |
| hs\_cu\_c³ | -0.003 | -0.002 | Balanced, <0.1 | 0.003 |
| hs\_zn\_c³ | -0.002 | -0.002 | Balanced, <0.1 | 0.002 |
| hs\_se\_c³ | -0.034 | -0.002 | Balanced, <0.1 | 0.002 |
| hs\_se\_c² | -0.038 | -0.002 | Balanced, <0.1 | 0.002 |
| hs\_pb\_c³ | -0.003 | -0.002 | Balanced, <0.1 | 0.002 |
| hs\_zn\_c² | -0.001 | -0.003 | Balanced, <0.1 | 0.002 |
| hs\_cd\_c³ | -0.003 | -0.003 | Balanced, <0.1 | 0.002 |
| hs\_se\_c | -0.041 | -0.003 | Balanced, <0.1 | 0.002 |
| hs\_as\_c³ | -0.004 | -0.003 | Balanced, <0.1 | 0.001 |
| hs\_total\_veg³ | -0.012 | -0.003 | Balanced, <0.1 | 0.002 |
| e3\_asmokcigd\_t2² | -0.006 | -0.003 | Balanced, <0.1 | 0.001 |
| hs\_co\_c³ | -0.004 | -0.003 | Balanced, <0.1 | 0.002 |
| e3\_asmokcigd\_t3² | -0.006 | -0.003 | Balanced, <0.1 | 0.001 |
| hs\_fastfood³ | 0.668 | -0.004 | Balanced, <0.1 | 0.008 |
| hs\_co\_c² | -0.004 | -0.004 | Balanced, <0.1 | 0.002 |
| hs\_zn\_c | 0.000 | -0.004 | Balanced, <0.1 | 0.002 |
| hs\_pb\_c² | -0.004 | -0.004 | Balanced, <0.1 | 0.002 |
| e3\_asmokcigd\_t1³ | -0.006 | -0.004 | Balanced, <0.1 | 0.000 |
| hs\_hg\_c³ | -0.008 | -0.004 | Balanced, <0.1 | 0.001 |
| hs\_total\_fish³ | -0.009 | -0.004 | Balanced, <0.1 | 0.001 |
| hs\_as\_c² | -0.008 | -0.005 | Balanced, <0.1 | 0.001 |
| hs\_co\_c | -0.005 | -0.005 | Balanced, <0.1 | 0.002 |
| hs\_pm25\_dy\_hs\_t | 0.001 | -0.006 | Balanced, <0.1 | 0.002 |
| hs\_total\_fish² | -0.011 | -0.006 | Balanced, <0.1 | 0.001 |
| hs\_total\_fish | -0.005 | -0.007 | Balanced, <0.1 | 0.001 |
| hs\_no2\_dy\_hs\_t² | 0.002 | -0.007 | Balanced, <0.1 | 0.002 |
| e3\_asmokcigd\_t1² | -0.011 | -0.007 | Balanced, <0.1 | 0.000 |
| hs\_fastfood | 0.282 | -0.007 | Balanced, <0.1 | 0.008 |
| hs\_fastfood² | 0.540 | -0.007 | Balanced, <0.1 | 0.008 |
| hs\_hg\_c² | -0.015 | -0.008 | Balanced, <0.1 | 0.001 |
| e3\_asmokcigd\_t2 | -0.015 | -0.009 | Balanced, <0.1 | 0.001 |
| hs\_no2\_dy\_hs\_t³ | -0.007 | -0.009 | Balanced, <0.1 | 0.002 |
| e3\_asmokcigd\_t3 | -0.016 | -0.009 | Balanced, <0.1 | 0.001 |
| hs\_pb\_c | -0.003 | -0.011 | Balanced, <0.1 | 0.002 |
| hs\_pm25\_dy\_hs\_t² | -0.010 | -0.012 | Balanced, <0.1 | 0.002 |
| hs\_pm25\_dy\_hs\_t³ | -0.015 | -0.013 | Balanced, <0.1 | 0.002 |
| hs\_hg\_c | -0.027 | -0.013 | Balanced, <0.1 | 0.001 |
| e3\_asmokcigd\_t1 | -0.021 | -0.013 | Balanced, <0.1 | 0.000 |
| hs\_as\_c | -0.025 | -0.015 | Balanced, <0.1 | 0.001 |