Table 1: Balance statistics: oxbe

| variable | unadj. correlation | adj. correlation | threshold | adj. KS |
| --- | --- | --- | --- | --- |
| binary | | | | |
| hs\_date\_neu\_summer | 0.062 | 0.012 | Balanced, <0.1 | 0.001 |
| cohort\_SAB | 0.029 | 0.010 | Balanced, <0.1 | 0.001 |
| cohort\_BIB | 0.075 | 0.007 | Balanced, <0.1 | 0.000 |
| hs\_tob\_1 | 0.029 | 0.007 | Balanced, <0.1 | 0.000 |
| hs\_finance\_3 | 0.014 | 0.006 | Balanced, <0.1 | 0.001 |
| e3\_marital\_2 | 0.101 | 0.005 | Balanced, <0.1 | 0.000 |
| hs\_finance\_5 | -0.005 | 0.004 | Balanced, <0.1 | 0.000 |
| e3\_asmokyn\_p\_2 | -0.009 | 0.003 | Balanced, <0.1 | 0.000 |
| hs\_finance\_2 | 0.005 | 0.002 | Balanced, <0.1 | 0.000 |
| hs\_qual\_test\_2 | -0.005 | 0.002 | Balanced, <0.1 | 0.000 |
| hs\_tob\_4 | -0.011 | 0.000 | Balanced, <0.1 | 0.000 |
| hs\_date\_neu\_autumn | -0.026 | 0.000 | Balanced, <0.1 | 0.000 |
| hs\_finance\_4 | -0.013 | 0.000 | Balanced, <0.1 | 0.000 |
| cohort\_KANC | -0.022 | -0.001 | Balanced, <0.1 | 0.000 |
| e3\_psmokanyt\_2 | 0.013 | -0.001 | Balanced, <0.1 | 0.001 |
| e3\_marital\_1 | -0.010 | -0.001 | Balanced, <0.1 | 0.000 |
| hs\_finance\_6 | -0.006 | -0.002 | Balanced, <0.1 | 0.000 |
| cohort\_MOBA | -0.026 | -0.002 | Balanced, <0.1 | 0.000 |
| cohort\_RHEA | -0.022 | -0.002 | Balanced, <0.1 | 0.000 |
| hs\_tob\_3 | -0.022 | -0.002 | Balanced, <0.1 | 0.000 |
| e3\_marital\_0 | -0.061 | -0.002 | Balanced, <0.1 | 0.000 |
| hs\_tob\_5 | 0.009 | -0.003 | Balanced, <0.1 | 0.000 |
| hs\_date\_neu\_spring | 0.002 | -0.003 | Balanced, <0.1 | 0.001 |
| hs\_tob\_2 | -0.023 | -0.005 | Balanced, <0.1 | 0.000 |
| hs\_neuro\_diag\_2 | -0.019 | -0.005 | Balanced, <0.1 | 0.000 |
| hs\_date\_neu\_winter | -0.037 | -0.008 | Balanced, <0.1 | 0.000 |
| hs\_finance\_1 | -0.008 | -0.009 | Balanced, <0.1 | 0.001 |
| cohort\_EDEN | -0.033 | -0.013 | Balanced, <0.1 | 0.000 |
| continuous | | | | |
| h\_no2\_ratio\_t3 | 0.038 | 0.012 | Balanced, <0.1 | 0.001 |
| h\_no2\_ratio\_t3² | 0.036 | 0.011 | Balanced, <0.1 | 0.001 |
| h\_no2\_ratio\_t1 | 0.032 | 0.010 | Balanced, <0.1 | 0.001 |
| h\_no2\_ratio\_t2 | 0.041 | 0.010 | Balanced, <0.1 | 0.002 |
| h\_no2\_ratio\_t2² | 0.039 | 0.009 | Balanced, <0.1 | 0.002 |
| h\_no2\_ratio\_t1² | 0.020 | 0.008 | Balanced, <0.1 | 0.001 |
| hs\_fastfood | 0.046 | 0.008 | Balanced, <0.1 | 0.001 |
| h\_no2\_ratio\_t3³ | 0.028 | 0.008 | Balanced, <0.1 | 0.001 |
| e3\_gac³ | -0.047 | 0.007 | Balanced, <0.1 | 0.001 |
| e3\_gac² | -0.053 | 0.007 | Balanced, <0.1 | 0.001 |
| e3\_gac | -0.058 | 0.007 | Balanced, <0.1 | 0.001 |
| h\_no2\_ratio\_t2³ | 0.031 | 0.006 | Balanced, <0.1 | 0.002 |
| h\_no2\_ratio\_t1³ | 0.009 | 0.006 | Balanced, <0.1 | 0.001 |
| hs\_cd\_c | 0.003 | 0.003 | Balanced, <0.1 | 0.002 |
| h\_pm25\_ratio\_t3 | -0.011 | 0.003 | Balanced, <0.1 | 0.001 |
| hs\_fastfood² | 0.012 | 0.003 | Balanced, <0.1 | 0.001 |
| hs\_pb\_c | 0.006 | 0.002 | Balanced, <0.1 | 0.002 |
| hs\_no2\_dy\_hs\_t | 0.014 | 0.002 | Balanced, <0.1 | 0.001 |
| hs\_cd\_c² | 0.001 | 0.002 | Balanced, <0.1 | 0.002 |
| hs\_co\_c³ | -0.002 | 0.001 | Balanced, <0.1 | 0.001 |
| hs\_co\_c² | -0.005 | 0.001 | Balanced, <0.1 | 0.001 |
| h\_pm25\_ratio\_t3² | -0.014 | 0.001 | Balanced, <0.1 | 0.001 |
| hs\_cd\_c³ | -0.001 | 0.001 | Balanced, <0.1 | 0.002 |
| e3\_bw³ | -0.055 | 0.001 | Balanced, <0.1 | 0.001 |
| hs\_head\_circ | -0.008 | 0.001 | Balanced, <0.1 | 0.001 |
| hs\_head\_circ² | -0.009 | 0.001 | Balanced, <0.1 | 0.001 |
| e3\_bw² | -0.066 | 0.001 | Balanced, <0.1 | 0.001 |
| hs\_head\_circ³ | -0.010 | 0.001 | Balanced, <0.1 | 0.001 |
| e3\_bw | -0.081 | 0.001 | Balanced, <0.1 | 0.001 |
| hs\_fastfood³ | 0.001 | 0.000 | Balanced, <0.1 | 0.001 |
| FAS\_score | -0.046 | -0.001 | Balanced, <0.1 | 0.001 |
| h\_pm25\_ratio\_t3³ | -0.016 | -0.001 | Balanced, <0.1 | 0.001 |
| FAS\_score² | -0.045 | -0.001 | Balanced, <0.1 | 0.001 |
| hs\_pb\_c² | -0.003 | -0.001 | Balanced, <0.1 | 0.002 |
| e3\_asmokcigd\_t3 | 0.001 | -0.001 | Balanced, <0.1 | 0.001 |
| FAS\_score³ | -0.041 | -0.001 | Balanced, <0.1 | 0.001 |
| hs\_no2\_dy\_hs\_t² | -0.002 | -0.001 | Balanced, <0.1 | 0.001 |
| h\_pm25\_ratio\_t2 | -0.009 | -0.001 | Balanced, <0.1 | 0.001 |
| hs\_co\_c | -0.013 | -0.001 | Balanced, <0.1 | 0.001 |
| hs\_waist | -0.034 | -0.001 | Balanced, <0.1 | 0.002 |
| hs\_pb\_c³ | -0.003 | -0.001 | Balanced, <0.1 | 0.002 |
| e3\_asmokcigd\_t1³ | -0.005 | -0.001 | Balanced, <0.1 | 0.001 |
| e3\_asmokcigd\_t2 | 0.000 | -0.001 | Balanced, <0.1 | 0.001 |
| hs\_se\_c | 0.008 | -0.001 | Balanced, <0.1 | 0.001 |
| hs\_cu\_c³ | -0.004 | -0.001 | Balanced, <0.1 | 0.002 |
| hs\_waist² | -0.033 | -0.001 | Balanced, <0.1 | 0.002 |
| e3\_asmokcigd\_t2³ | -0.004 | -0.001 | Balanced, <0.1 | 0.001 |
| e3\_asmokcigd\_t3³ | -0.004 | -0.001 | Balanced, <0.1 | 0.001 |
| hs\_as\_c³ | -0.004 | -0.001 | Balanced, <0.1 | 0.001 |
| hs\_waist³ | -0.031 | -0.001 | Balanced, <0.1 | 0.002 |
| e3\_asmokcigd\_t3² | -0.005 | -0.002 | Balanced, <0.1 | 0.001 |
| e3\_asmokcigd\_t2² | -0.005 | -0.002 | Balanced, <0.1 | 0.001 |
| hs\_org\_food | -0.030 | -0.002 | Balanced, <0.1 | 0.000 |
| hs\_no2\_dy\_hs\_t³ | -0.007 | -0.002 | Balanced, <0.1 | 0.001 |
| hs\_cu\_c² | -0.007 | -0.002 | Balanced, <0.1 | 0.002 |
| hs\_total\_fruits | 0.019 | -0.002 | Balanced, <0.1 | 0.001 |
| hs\_total\_fruits³ | 0.019 | -0.002 | Balanced, <0.1 | 0.001 |
| hs\_total\_fruits² | 0.022 | -0.002 | Balanced, <0.1 | 0.001 |
| hs\_as\_c² | -0.007 | -0.002 | Balanced, <0.1 | 0.001 |
| e3\_asmokcigd\_t1² | -0.009 | -0.002 | Balanced, <0.1 | 0.001 |
| hs\_se\_c² | 0.012 | -0.002 | Balanced, <0.1 | 0.001 |
| h\_pm25\_ratio\_t2² | -0.011 | -0.002 | Balanced, <0.1 | 0.001 |
| hs\_org\_food² | -0.024 | -0.002 | Balanced, <0.1 | 0.000 |
| hs\_cu\_c | -0.009 | -0.003 | Balanced, <0.1 | 0.002 |
| hs\_hg\_c³ | -0.005 | -0.003 | Balanced, <0.1 | 0.001 |
| hs\_se\_c³ | 0.017 | -0.003 | Balanced, <0.1 | 0.001 |
| hs\_total\_fish³ | -0.012 | -0.003 | Balanced, <0.1 | 0.002 |
| h\_pm25\_ratio\_t2³ | -0.013 | -0.003 | Balanced, <0.1 | 0.001 |
| hs\_org\_food³ | -0.021 | -0.003 | Balanced, <0.1 | 0.000 |
| e3\_asmokcigd\_t1 | -0.012 | -0.004 | Balanced, <0.1 | 0.001 |
| hs\_hg\_c² | 0.000 | -0.004 | Balanced, <0.1 | 0.001 |
| hs\_total\_veg³ | -0.015 | -0.004 | Balanced, <0.1 | 0.001 |
| hs\_hg\_c | 0.013 | -0.004 | Balanced, <0.1 | 0.001 |
| hs\_total\_fish² | -0.020 | -0.004 | Balanced, <0.1 | 0.002 |
| hs\_total\_fish | -0.028 | -0.004 | Balanced, <0.1 | 0.002 |
| hs\_pm25\_dy\_hs\_t | -0.012 | -0.004 | Balanced, <0.1 | 0.001 |
| hs\_as\_c | -0.014 | -0.005 | Balanced, <0.1 | 0.001 |
| hs\_total\_veg² | -0.020 | -0.005 | Balanced, <0.1 | 0.001 |
| hs\_pm25\_dy\_hs\_t³ | -0.017 | -0.005 | Balanced, <0.1 | 0.001 |
| hs\_pm25\_dy\_hs\_t² | -0.017 | -0.005 | Balanced, <0.1 | 0.001 |
| hs\_total\_veg | -0.021 | -0.006 | Balanced, <0.1 | 0.001 |
| h\_pm25\_ratio\_t1 | -0.026 | -0.006 | Balanced, <0.1 | 0.001 |
| h\_pm25\_ratio\_t1² | -0.029 | -0.006 | Balanced, <0.1 | 0.001 |
| h\_pm25\_ratio\_t1³ | -0.030 | -0.007 | Balanced, <0.1 | 0.001 |
| hs\_age\_years | -0.029 | -0.007 | Balanced, <0.1 | 0.001 |
| hs\_zn\_c³ | -0.025 | -0.007 | Balanced, <0.1 | 0.001 |
| hs\_age\_years² | -0.031 | -0.008 | Balanced, <0.1 | 0.001 |
| hs\_age\_years³ | -0.032 | -0.008 | Balanced, <0.1 | 0.001 |
| hs\_zn\_c² | -0.029 | -0.008 | Balanced, <0.1 | 0.001 |
| hs\_zn\_c | -0.031 | -0.009 | Balanced, <0.1 | 0.001 |