# CBCL

Call:

lm(formula = cbcl\_scr\_syn\_internal\_t ~ demo\_brthdat\_v2 + demo\_sex\_v2 +

race\_ethnicity, data = train\_data)

Residuals:

Min 1Q Median 3Q Max

-14.426 -7.308 -0.308 6.070 40.395

Coefficients:

Estimate Std. Error t value Pr(>|t|)

(Intercept) 43.8403 2.8839 15.202 <2e-16 \*\*\*

demo\_brthdat\_v2 0.1309 0.2860 0.458 0.6472

demo\_sex\_v2Male 0.5044 0.2892 1.744 0.0812 .

race\_ethnicityBlack -2.0484 1.0529 -1.945 0.0518 .

race\_ethnicityHispanic 0.9903 1.0295 0.962 0.3361

race\_ethnicityOther 2.2766 1.0781 2.112 0.0348 \*

race\_ethnicityWhite 1.2902 0.9943 1.298 0.1945

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 9.704 on 4515 degrees of freedom

Multiple R-squared: 0.01579, Adjusted R-squared: 0.01448

F-statistic: 12.07 on 6 and 4515 DF, p-value: 1.677e-13

Call:

lm(formula = cbcl\_scr\_syn\_internal\_t ~ latent\_factor\_ss\_general\_ses +

latent\_factor\_ss\_social + latent\_factor\_ss\_perinatal, data = train\_data)

Residuals:

Min 1Q Median 3Q Max

-17.871 -7.208 -0.744 6.138 37.792

Coefficients:

Estimate Std. Error t value Pr(>|t|)

(Intercept) 46.3107 0.1457 317.829 < 2e-16 \*\*\*

latent\_factor\_ss\_general\_ses -1.1797 0.1966 -6.001 2.11e-09 \*\*\*

latent\_factor\_ss\_social -0.5107 0.2053 -2.487 0.0129 \*

latent\_factor\_ss\_perinatal 0.2202 0.1893 1.163 0.2448

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 9.731 on 4518 degrees of freedom

Multiple R-squared: 0.009574, Adjusted R-squared: 0.008917

F-statistic: 14.56 on 3 and 4518 DF, p-value: 1.956e-09

Call:

lm(formula = cbcl\_scr\_syn\_internal\_t ~ ., data = model\_data)

Residuals:

Min 1Q Median 3Q Max

-18.162 -7.391 -0.527 6.044 38.439

Coefficients: (3 not defined because of singularities)

Estimate Std. Error t value Pr(>|t|)

(Intercept) 4.484e+01 4.119e+00 10.887 < 2e-16 \*\*\*

smri\_vol\_scs\_cbwmatterlh -5.224e+01 5.989e+02 -0.087 0.930501

smri\_vol\_scs\_ltventriclelh -2.938e+05 4.031e+05 -0.729 0.466196

smri\_vol\_scs\_inflatventlh -2.938e+05 4.032e+05 -0.729 0.466163

smri\_vol\_scs\_crbwmatterlh 2.086e+03 9.532e+02 2.189 0.028676 \*

smri\_vol\_scs\_crbcortexlh 1.887e+03 9.423e+02 2.002 0.045318 \*

smri\_vol\_scs\_tplh 6.164e+00 1.812e+03 0.003 0.997286

smri\_vol\_scs\_caudatelh 1.559e+02 2.352e+03 0.066 0.947173

smri\_vol\_scs\_putamenlh -4.753e+02 2.204e+03 -0.216 0.829287

smri\_vol\_scs\_pallidumlh 1.515e+02 2.492e+03 0.061 0.951537

smri\_vol\_scs\_3rdventricle -2.953e+05 4.031e+05 -0.732 0.463921

smri\_vol\_scs\_4thventricle -2.945e+05 4.031e+05 -0.731 0.465039

smri\_vol\_scs\_bstem -7.289e+01 2.534e+02 -0.288 0.773676

smri\_vol\_scs\_hpuslh 3.174e+01 2.147e+03 0.015 0.988207

smri\_vol\_scs\_amygdalalh -1.073e+02 2.425e+03 -0.044 0.964715

smri\_vol\_scs\_csf -1.623e+03 1.660e+03 -0.978 0.328345

smri\_vol\_scs\_aal -3.940e+03 3.890e+03 -1.013 0.311129

smri\_vol\_scs\_vedclh -4.534e+02 2.583e+03 -0.176 0.860651

smri\_vol\_scs\_cbwmatterrh -8.204e+02 6.081e+02 -1.349 0.177316

smri\_vol\_scs\_ltventriclerh -2.939e+05 4.031e+05 -0.729 0.466086

smri\_vol\_scs\_inflatventrh -2.902e+05 4.031e+05 -0.720 0.471661

smri\_vol\_scs\_crbwmatterrh 2.128e+03 9.457e+02 2.250 0.024492 \*

smri\_vol\_scs\_crbcortexrh 2.465e+03 9.351e+02 2.636 0.008414 \*\*

smri\_vol\_scs\_tprh 3.033e+02 1.985e+03 0.153 0.878541

smri\_vol\_scs\_caudaterh 2.383e+03 2.287e+03 1.042 0.297628

smri\_vol\_scs\_putamenrh 1.709e+03 2.218e+03 0.770 0.441114

smri\_vol\_scs\_pallidumrh -2.376e+03 2.570e+03 -0.925 0.355218

smri\_vol\_scs\_hpusrh 6.769e+02 2.161e+03 0.313 0.754055

smri\_vol\_scs\_amygdalarh 4.779e+02 2.654e+03 0.180 0.857113

smri\_vol\_scs\_aar -1.215e+03 4.160e+03 -0.292 0.770161

smri\_vol\_scs\_vedcrh 3.507e+03 2.588e+03 1.355 0.175491

smri\_vol\_scs\_wmhint 1.126e+02 8.054e+02 0.140 0.888828

smri\_vol\_scs\_wmhintlh NA NA NA NA

smri\_vol\_scs\_wmhintrh NA NA NA NA

smri\_vol\_scs\_ccps -3.787e+03 2.694e+03 -1.405 0.159977

smri\_vol\_scs\_ccmidps 1.334e+04 3.775e+03 3.532 0.000416 \*\*\*

smri\_vol\_scs\_ccct 3.253e+03 2.843e+03 1.144 0.252535

smri\_vol\_scs\_ccmidat 1.671e+03 2.453e+03 0.681 0.495754

smri\_vol\_scs\_ccat -6.662e+03 2.493e+03 -2.673 0.007555 \*\*

smri\_vol\_scs\_wholeb -2.148e+03 9.264e+02 -2.318 0.020479 \*

smri\_vol\_scs\_latventricles NA NA NA NA

smri\_vol\_scs\_allventricles 2.912e+05 4.031e+05 0.722 0.470178

smri\_vol\_scs\_suprateialv 2.566e+03 7.316e+02 3.507 0.000458 \*\*\*

smri\_vol\_scs\_subcorticalgv -8.254e+02 1.501e+03 -0.550 0.582404

mrisdp\_454 4.304e+03 2.506e+03 1.718 0.085899 .

mrisdp\_455 3.309e+03 2.400e+03 1.379 0.167937

mrisdp\_456 2.727e+03 2.463e+03 1.107 0.268256

mrisdp\_457 2.765e+03 2.417e+03 1.144 0.252667

mrisdp\_458 2.904e+03 2.487e+03 1.168 0.242993

mrisdp\_459 2.073e+03 2.418e+03 0.857 0.391424

mrisdp\_460 3.162e+03 2.463e+03 1.284 0.199294

mrisdp\_461 1.442e+03 2.491e+03 0.579 0.562746

mrisdp\_462 1.542e+03 2.549e+03 0.605 0.545269

mrisdp\_463 1.172e+03 2.947e+03 0.398 0.690738

mrisdp\_464 3.371e+03 2.484e+03 1.357 0.174785

mrisdp\_465 2.635e+03 2.425e+03 1.087 0.277142

mrisdp\_466 3.640e+03 2.573e+03 1.415 0.157216

mrisdp\_467 3.189e+03 2.408e+03 1.324 0.185440

mrisdp\_468 2.765e+03 2.378e+03 1.163 0.244938

mrisdp\_469 2.807e+03 2.373e+03 1.183 0.236938

mrisdp\_470 4.933e+03 2.803e+03 1.760 0.078493 .

mrisdp\_471 4.028e+03 2.637e+03 1.527 0.126804

mrisdp\_472 3.079e+03 2.391e+03 1.288 0.197928

mrisdp\_473 1.821e+03 2.457e+03 0.741 0.458634

mrisdp\_474 3.169e+03 2.394e+03 1.324 0.185641

mrisdp\_475 2.765e+03 2.401e+03 1.152 0.249561

mrisdp\_476 2.923e+03 2.414e+03 1.211 0.226012

mrisdp\_477 2.362e+03 2.412e+03 0.979 0.327448

mrisdp\_478 2.635e+03 2.385e+03 1.105 0.269419

mrisdp\_479 2.721e+03 2.387e+03 1.140 0.254374

mrisdp\_480 2.621e+03 2.393e+03 1.095 0.273583

mrisdp\_481 2.608e+03 2.409e+03 1.083 0.279066

mrisdp\_482 3.691e+03 2.412e+03 1.530 0.126083

mrisdp\_483 2.690e+03 2.394e+03 1.123 0.261352

mrisdp\_484 3.288e+03 2.487e+03 1.322 0.186157

mrisdp\_485 2.622e+03 2.617e+03 1.002 0.316458

mrisdp\_486 3.560e+03 2.600e+03 1.369 0.171044

mrisdp\_487 3.160e+03 2.415e+03 1.309 0.190674

mrisdp\_488 3.847e+03 2.508e+03 1.534 0.125111

mrisdp\_489 1.960e+03 2.464e+03 0.795 0.426438

mrisdp\_490 2.742e+03 2.382e+03 1.151 0.249709

mrisdp\_491 3.466e+03 2.389e+03 1.451 0.146913

mrisdp\_492 3.007e+03 3.279e+03 0.917 0.359066

mrisdp\_493 4.066e+03 2.937e+03 1.384 0.166313

mrisdp\_494 4.307e+03 2.810e+03 1.533 0.125360

mrisdp\_495 3.591e+03 2.452e+03 1.464 0.143145

mrisdp\_496 2.404e+03 2.418e+03 0.994 0.320052

mrisdp\_497 3.003e+03 2.507e+03 1.198 0.231041

mrisdp\_498 1.752e+03 2.516e+03 0.696 0.486302

mrisdp\_499 3.675e+03 2.616e+03 1.405 0.160203

mrisdp\_500 2.079e+03 3.044e+03 0.683 0.494669

mrisdp\_501 1.732e+03 2.562e+03 0.676 0.499174

mrisdp\_502 3.792e+03 2.650e+03 1.431 0.152529

mrisdp\_503 6.152e+03 2.517e+03 2.445 0.014544 \*

mrisdp\_504 4.639e+03 2.999e+03 1.547 0.122033

mrisdp\_505 2.902e+03 2.406e+03 1.206 0.227938

mrisdp\_506 2.458e+03 2.434e+03 1.010 0.312686

mrisdp\_507 3.065e+03 2.389e+03 1.283 0.199594

mrisdp\_508 4.243e+03 2.603e+03 1.630 0.103072

mrisdp\_509 2.833e+03 2.393e+03 1.184 0.236575

mrisdp\_510 2.236e+03 2.538e+03 0.881 0.378365

mrisdp\_511 3.038e+03 2.529e+03 1.202 0.229605

mrisdp\_512 3.050e+03 2.501e+03 1.219 0.222764

mrisdp\_513 9.402e+02 2.514e+03 0.374 0.708394

mrisdp\_514 1.738e+03 2.476e+03 0.702 0.482830

mrisdp\_515 3.793e+03 2.880e+03 1.317 0.187852

mrisdp\_516 7.199e+03 3.358e+03 2.144 0.032097 \*

mrisdp\_517 2.460e+03 2.532e+03 0.972 0.331187

mrisdp\_518 2.487e+03 2.428e+03 1.024 0.305766

mrisdp\_519 2.674e+03 2.580e+03 1.037 0.300019

mrisdp\_520 3.286e+03 2.396e+03 1.371 0.170298

mrisdp\_521 3.483e+03 2.412e+03 1.444 0.148851

mrisdp\_522 3.234e+03 2.453e+03 1.319 0.187379

mrisdp\_523 2.276e+03 2.485e+03 0.916 0.359741

mrisdp\_524 4.951e+03 2.559e+03 1.935 0.053066 .

mrisdp\_525 3.042e+03 2.458e+03 1.238 0.215823

mrisdp\_526 2.360e+03 2.376e+03 0.993 0.320675

mrisdp\_527 3.938e+03 2.902e+03 1.357 0.174870

mrisdp\_528 9.551e+03 3.545e+03 2.694 0.007087 \*\*

mrisdp\_529 1.032e+04 3.485e+03 2.961 0.003081 \*\*

mrisdp\_530 8.921e+03 3.535e+03 2.523 0.011656 \*

mrisdp\_531 1.005e+04 3.495e+03 2.876 0.004051 \*\*

mrisdp\_532 1.015e+04 3.496e+03 2.904 0.003704 \*\*

mrisdp\_533 1.037e+04 3.488e+03 2.971 0.002981 \*\*

mrisdp\_534 9.599e+03 3.539e+03 2.712 0.006706 \*\*

mrisdp\_535 1.043e+04 3.555e+03 2.935 0.003356 \*\*

mrisdp\_536 1.092e+04 3.585e+03 3.046 0.002335 \*\*

mrisdp\_537 9.657e+03 3.860e+03 2.502 0.012388 \*

mrisdp\_538 9.241e+03 3.516e+03 2.629 0.008605 \*\*

mrisdp\_539 1.032e+04 3.478e+03 2.969 0.003008 \*\*

mrisdp\_540 9.575e+03 3.531e+03 2.712 0.006713 \*\*

mrisdp\_541 1.034e+04 3.477e+03 2.975 0.002948 \*\*

mrisdp\_542 1.014e+04 3.455e+03 2.936 0.003344 \*\*

mrisdp\_543 1.034e+04 3.456e+03 2.993 0.002782 \*\*

mrisdp\_544 9.748e+03 3.749e+03 2.600 0.009341 \*\*

mrisdp\_545 8.826e+03 3.592e+03 2.457 0.014048 \*

mrisdp\_546 1.048e+04 3.473e+03 3.017 0.002571 \*\*

mrisdp\_547 9.797e+03 3.514e+03 2.788 0.005327 \*\*

mrisdp\_548 1.031e+04 3.479e+03 2.964 0.003049 \*\*

mrisdp\_549 1.039e+04 3.503e+03 2.966 0.003030 \*\*

mrisdp\_550 9.776e+03 3.493e+03 2.799 0.005147 \*\*

mrisdp\_551 1.033e+04 3.491e+03 2.960 0.003092 \*\*

mrisdp\_552 1.040e+04 3.466e+03 3.002 0.002701 \*\*

mrisdp\_553 1.003e+04 3.468e+03 2.891 0.003856 \*\*

mrisdp\_554 9.960e+03 3.470e+03 2.871 0.004118 \*\*

mrisdp\_555 1.093e+04 3.483e+03 3.138 0.001712 \*\*

mrisdp\_556 9.937e+03 3.493e+03 2.845 0.004463 \*\*

mrisdp\_557 1.050e+04 3.470e+03 3.027 0.002485 \*\*

mrisdp\_558 7.493e+03 3.555e+03 2.108 0.035121 \*

mrisdp\_559 1.134e+04 3.740e+03 3.033 0.002436 \*\*

mrisdp\_560 1.133e+04 3.802e+03 2.979 0.002905 \*\*

mrisdp\_561 9.887e+03 3.479e+03 2.841 0.004513 \*\*

mrisdp\_562 9.375e+03 3.551e+03 2.640 0.008326 \*\*

mrisdp\_563 1.009e+04 3.558e+03 2.836 0.004587 \*\*

mrisdp\_564 1.009e+04 3.474e+03 2.905 0.003689 \*\*

mrisdp\_565 1.025e+04 3.467e+03 2.957 0.003127 \*\*

mrisdp\_566 8.705e+03 3.682e+03 2.364 0.018133 \*

mrisdp\_567 1.281e+04 3.952e+03 3.241 0.001199 \*\*

mrisdp\_568 9.095e+03 3.756e+03 2.421 0.015502 \*

mrisdp\_569 1.038e+04 3.495e+03 2.971 0.002984 \*\*

mrisdp\_570 1.009e+04 3.484e+03 2.897 0.003785 \*\*

mrisdp\_571 1.111e+04 3.521e+03 3.156 0.001611 \*\*

mrisdp\_572 1.006e+04 3.544e+03 2.840 0.004530 \*\*

mrisdp\_573 1.021e+04 3.539e+03 2.886 0.003922 \*\*

mrisdp\_574 1.137e+04 3.875e+03 2.935 0.003353 \*\*

mrisdp\_575 9.322e+03 3.677e+03 2.535 0.011271 \*

mrisdp\_576 9.714e+03 3.632e+03 2.675 0.007506 \*\*

mrisdp\_577 8.942e+03 3.551e+03 2.518 0.011842 \*

mrisdp\_578 1.163e+04 3.844e+03 3.026 0.002494 \*\*

mrisdp\_579 9.650e+03 3.471e+03 2.780 0.005455 \*\*

mrisdp\_580 1.016e+04 3.454e+03 2.941 0.003292 \*\*

mrisdp\_581 1.028e+04 3.466e+03 2.967 0.003020 \*\*

mrisdp\_582 1.215e+04 3.593e+03 3.381 0.000730 \*\*\*

mrisdp\_583 1.052e+04 3.468e+03 3.033 0.002436 \*\*

mrisdp\_584 9.821e+03 3.569e+03 2.752 0.005957 \*\*

mrisdp\_585 9.873e+03 3.536e+03 2.792 0.005260 \*\*

mrisdp\_586 1.028e+04 3.578e+03 2.872 0.004105 \*\*

mrisdp\_587 1.119e+04 3.536e+03 3.164 0.001569 \*\*

mrisdp\_588 1.065e+04 3.496e+03 3.045 0.002341 \*\*

mrisdp\_589 9.327e+03 3.742e+03 2.492 0.012724 \*

mrisdp\_590 8.825e+03 3.869e+03 2.281 0.022586 \*

mrisdp\_591 1.008e+04 3.579e+03 2.817 0.004865 \*\*

mrisdp\_592 1.152e+04 3.504e+03 3.286 0.001024 \*\*

mrisdp\_593 1.022e+04 3.551e+03 2.878 0.004026 \*\*

mrisdp\_594 9.582e+03 3.487e+03 2.748 0.006024 \*\*

mrisdp\_595 9.580e+03 3.486e+03 2.748 0.006013 \*\*

mrisdp\_596 1.011e+04 3.491e+03 2.895 0.003815 \*\*

mrisdp\_597 9.678e+03 3.745e+03 2.584 0.009790 \*\*

mrisdp\_598 9.341e+03 3.525e+03 2.650 0.008085 \*\*

mrisdp\_599 1.123e+04 3.565e+03 3.149 0.001650 \*\*

mrisdp\_600 1.011e+04 3.463e+03 2.919 0.003524 \*\*

mrisdp\_601 1.363e+04 4.193e+03 3.251 0.001159 \*\*

mrisdp\_602 -7.870e+03 4.759e+03 -1.654 0.098282 .

mrisdp\_603 -1.475e+04 5.628e+03 -2.620 0.008819 \*\*

mrisdp\_604 4.383e+03 2.463e+03 1.779 0.075256 .

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 9.683 on 4330 degrees of freedom

Multiple R-squared: 0.06023, Adjusted R-squared: 0.01878

F-statistic: 1.453 on 191 and 4330 DF, p-value: 6.726e-05

Call:

lm(formula = cbcl\_scr\_syn\_internal\_t ~ ., data = model\_data)

Residuals:

Min 1Q Median 3Q Max

-21.219 -7.328 -0.425 5.997 38.838

Coefficients: (3 not defined because of singularities)

Estimate Std. Error t value Pr(>|t|)

(Intercept) 4.279e+01 5.144e+00 8.318 < 2e-16 \*\*\*

demo\_sex\_v2Male 5.575e-01 3.825e-01 1.458 0.144978

demo\_brthdat\_v2 1.090e-01 3.035e-01 0.359 0.719395

latent\_factor\_ss\_general\_ses -1.444e+00 2.080e-01 -6.942 4.44e-12 \*\*\*

latent\_factor\_ss\_social -4.432e-01 2.096e-01 -2.114 0.034565 \*

latent\_factor\_ss\_perinatal 2.349e-02 2.029e-01 0.116 0.907826

smri\_vol\_scs\_cbwmatterlh -8.054e+01 5.978e+02 -0.135 0.892831

smri\_vol\_scs\_ltventriclelh -3.492e+05 4.010e+05 -0.871 0.383831

smri\_vol\_scs\_inflatventlh -3.493e+05 4.010e+05 -0.871 0.383787

smri\_vol\_scs\_crbwmatterlh 1.928e+03 9.551e+02 2.019 0.043569 \*

smri\_vol\_scs\_crbcortexlh 1.777e+03 9.455e+02 1.880 0.060219 .

smri\_vol\_scs\_tplh 2.609e+02 1.817e+03 0.144 0.885858

smri\_vol\_scs\_caudatelh 4.061e+02 2.365e+03 0.172 0.863648

smri\_vol\_scs\_putamenlh -5.882e+02 2.216e+03 -0.265 0.790742

smri\_vol\_scs\_pallidumlh -1.144e+02 2.498e+03 -0.046 0.963480

smri\_vol\_scs\_3rdventricle -3.510e+05 4.009e+05 -0.876 0.381304

smri\_vol\_scs\_4thventricle -3.499e+05 4.010e+05 -0.873 0.382889

smri\_vol\_scs\_bstem -9.680e+01 2.524e+02 -0.383 0.701398

smri\_vol\_scs\_hpuslh 4.430e+02 2.147e+03 0.206 0.836563

smri\_vol\_scs\_amygdalalh 2.936e+02 2.434e+03 0.121 0.904013

smri\_vol\_scs\_csf -1.591e+03 1.662e+03 -0.957 0.338431

smri\_vol\_scs\_aal -3.448e+03 3.938e+03 -0.876 0.381245

smri\_vol\_scs\_vedclh -1.015e+02 2.578e+03 -0.039 0.968602

smri\_vol\_scs\_cbwmatterrh -8.772e+02 6.067e+02 -1.446 0.148276

smri\_vol\_scs\_ltventriclerh -3.493e+05 4.010e+05 -0.871 0.383686

smri\_vol\_scs\_inflatventrh -3.455e+05 4.009e+05 -0.862 0.388880

smri\_vol\_scs\_crbwmatterrh 2.003e+03 9.485e+02 2.112 0.034749 \*

smri\_vol\_scs\_crbcortexrh 2.263e+03 9.394e+02 2.409 0.016057 \*

smri\_vol\_scs\_tprh 2.621e+02 1.993e+03 0.131 0.895410

smri\_vol\_scs\_caudaterh 2.604e+03 2.276e+03 1.144 0.252556

smri\_vol\_scs\_putamenrh 2.052e+03 2.215e+03 0.927 0.354210

smri\_vol\_scs\_pallidumrh -2.139e+03 2.565e+03 -0.834 0.404371

smri\_vol\_scs\_hpusrh 9.680e+02 2.159e+03 0.448 0.653968

smri\_vol\_scs\_amygdalarh 4.203e+01 2.658e+03 0.016 0.987384

smri\_vol\_scs\_aar -1.075e+03 4.141e+03 -0.260 0.795163

smri\_vol\_scs\_vedcrh 3.491e+03 2.588e+03 1.349 0.177495

smri\_vol\_scs\_wmhint 1.214e+02 8.014e+02 0.151 0.879627

smri\_vol\_scs\_wmhintlh NA NA NA NA

smri\_vol\_scs\_wmhintrh NA NA NA NA

smri\_vol\_scs\_ccps -3.372e+03 2.690e+03 -1.254 0.210042

smri\_vol\_scs\_ccmidps 1.358e+04 3.761e+03 3.610 0.000310 \*\*\*

smri\_vol\_scs\_ccct 2.916e+03 2.835e+03 1.029 0.303619

smri\_vol\_scs\_ccmidat 1.732e+03 2.440e+03 0.710 0.477753

smri\_vol\_scs\_ccat -6.539e+03 2.495e+03 -2.621 0.008801 \*\*

smri\_vol\_scs\_wholeb -1.991e+03 9.297e+02 -2.141 0.032302 \*

smri\_vol\_scs\_latventricles NA NA NA NA

smri\_vol\_scs\_allventricles 3.467e+05 4.010e+05 0.865 0.387222

smri\_vol\_scs\_suprateialv 2.448e+03 7.315e+02 3.346 0.000827 \*\*\*

smri\_vol\_scs\_subcorticalgv -1.018e+03 1.508e+03 -0.675 0.499611

mrisdp\_454 3.934e+03 2.494e+03 1.577 0.114755

mrisdp\_455 3.056e+03 2.388e+03 1.280 0.200683

mrisdp\_456 2.617e+03 2.451e+03 1.068 0.285716

mrisdp\_457 2.425e+03 2.405e+03 1.009 0.313249

mrisdp\_458 2.880e+03 2.474e+03 1.164 0.244472

mrisdp\_459 1.832e+03 2.405e+03 0.762 0.446216

mrisdp\_460 3.039e+03 2.450e+03 1.240 0.214985

mrisdp\_461 1.261e+03 2.478e+03 0.509 0.610867

mrisdp\_462 1.247e+03 2.538e+03 0.492 0.623054

mrisdp\_463 4.627e+02 2.936e+03 0.158 0.874795

mrisdp\_464 3.255e+03 2.471e+03 1.317 0.187851

mrisdp\_465 2.404e+03 2.412e+03 0.997 0.318980

mrisdp\_466 3.435e+03 2.559e+03 1.342 0.179625

mrisdp\_467 2.930e+03 2.395e+03 1.223 0.221241

mrisdp\_468 2.510e+03 2.366e+03 1.061 0.288672

mrisdp\_469 2.536e+03 2.361e+03 1.074 0.282871

mrisdp\_470 4.584e+03 2.788e+03 1.644 0.100234

mrisdp\_471 3.952e+03 2.624e+03 1.506 0.132148

mrisdp\_472 2.803e+03 2.379e+03 1.178 0.238836

mrisdp\_473 1.698e+03 2.445e+03 0.694 0.487459

mrisdp\_474 2.955e+03 2.382e+03 1.241 0.214810

mrisdp\_475 2.529e+03 2.389e+03 1.059 0.289765

mrisdp\_476 2.755e+03 2.402e+03 1.147 0.251465

mrisdp\_477 2.263e+03 2.399e+03 0.943 0.345675

mrisdp\_478 2.345e+03 2.373e+03 0.988 0.323205

mrisdp\_479 2.509e+03 2.375e+03 1.056 0.290820

mrisdp\_480 2.459e+03 2.381e+03 1.033 0.301769

mrisdp\_481 2.415e+03 2.396e+03 1.008 0.313531

mrisdp\_482 3.519e+03 2.400e+03 1.467 0.142559

mrisdp\_483 2.406e+03 2.382e+03 1.010 0.312653

mrisdp\_484 2.826e+03 2.474e+03 1.142 0.253521

mrisdp\_485 2.318e+03 2.603e+03 0.890 0.373303

mrisdp\_486 3.285e+03 2.586e+03 1.270 0.204077

mrisdp\_487 2.930e+03 2.402e+03 1.220 0.222718

mrisdp\_488 3.466e+03 2.496e+03 1.389 0.165024

mrisdp\_489 1.719e+03 2.452e+03 0.701 0.483303

mrisdp\_490 2.508e+03 2.369e+03 1.058 0.289900

mrisdp\_491 3.279e+03 2.376e+03 1.380 0.167687

mrisdp\_492 2.798e+03 3.260e+03 0.858 0.390734

mrisdp\_493 3.824e+03 2.921e+03 1.309 0.190539

mrisdp\_494 4.143e+03 2.793e+03 1.483 0.138124

mrisdp\_495 3.374e+03 2.440e+03 1.383 0.166755

mrisdp\_496 2.214e+03 2.405e+03 0.921 0.357294

mrisdp\_497 2.838e+03 2.493e+03 1.138 0.255166

mrisdp\_498 1.649e+03 2.503e+03 0.659 0.510008

mrisdp\_499 3.462e+03 2.603e+03 1.330 0.183708

mrisdp\_500 2.128e+03 3.032e+03 0.702 0.482964

mrisdp\_501 1.260e+03 2.549e+03 0.494 0.621040

mrisdp\_502 3.622e+03 2.636e+03 1.374 0.169575

mrisdp\_503 6.081e+03 2.503e+03 2.429 0.015162 \*

mrisdp\_504 4.277e+03 2.984e+03 1.434 0.151768

mrisdp\_505 2.715e+03 2.394e+03 1.134 0.256911

mrisdp\_506 2.189e+03 2.421e+03 0.904 0.365947

mrisdp\_507 2.896e+03 2.377e+03 1.218 0.223113

mrisdp\_508 4.186e+03 2.589e+03 1.617 0.105972

mrisdp\_509 2.604e+03 2.380e+03 1.094 0.273915

mrisdp\_510 2.146e+03 2.525e+03 0.850 0.395521

mrisdp\_511 2.945e+03 2.514e+03 1.171 0.241569

mrisdp\_512 2.907e+03 2.489e+03 1.168 0.242920

mrisdp\_513 7.832e+02 2.501e+03 0.313 0.754178

mrisdp\_514 1.505e+03 2.463e+03 0.611 0.541399

mrisdp\_515 3.483e+03 2.865e+03 1.216 0.224205

mrisdp\_516 6.874e+03 3.341e+03 2.058 0.039693 \*

mrisdp\_517 2.194e+03 2.519e+03 0.871 0.383789

mrisdp\_518 2.252e+03 2.416e+03 0.932 0.351372

mrisdp\_519 2.496e+03 2.567e+03 0.972 0.330945

mrisdp\_520 3.032e+03 2.383e+03 1.272 0.203319

mrisdp\_521 3.399e+03 2.400e+03 1.416 0.156765

mrisdp\_522 2.912e+03 2.441e+03 1.193 0.232929

mrisdp\_523 2.017e+03 2.472e+03 0.816 0.414559

mrisdp\_524 4.766e+03 2.545e+03 1.873 0.061182 .

mrisdp\_525 2.916e+03 2.445e+03 1.193 0.233130

mrisdp\_526 2.113e+03 2.364e+03 0.894 0.371490

mrisdp\_527 3.887e+03 2.886e+03 1.347 0.178149

mrisdp\_528 8.916e+03 3.530e+03 2.526 0.011587 \*

mrisdp\_529 9.547e+03 3.471e+03 2.750 0.005976 \*\*

mrisdp\_530 8.119e+03 3.521e+03 2.306 0.021146 \*

mrisdp\_531 9.259e+03 3.482e+03 2.659 0.007861 \*\*

mrisdp\_532 9.391e+03 3.482e+03 2.697 0.007021 \*\*

mrisdp\_533 9.487e+03 3.474e+03 2.731 0.006341 \*\*

mrisdp\_534 9.124e+03 3.522e+03 2.590 0.009622 \*\*

mrisdp\_535 9.753e+03 3.539e+03 2.755 0.005885 \*\*

mrisdp\_536 1.017e+04 3.571e+03 2.849 0.004403 \*\*

mrisdp\_537 8.305e+03 3.847e+03 2.159 0.030909 \*

mrisdp\_538 8.320e+03 3.502e+03 2.376 0.017555 \*

mrisdp\_539 9.484e+03 3.463e+03 2.739 0.006192 \*\*

mrisdp\_540 8.820e+03 3.515e+03 2.509 0.012133 \*

mrisdp\_541 9.528e+03 3.462e+03 2.752 0.005950 \*\*

mrisdp\_542 9.364e+03 3.440e+03 2.722 0.006508 \*\*

mrisdp\_543 9.553e+03 3.441e+03 2.776 0.005521 \*\*

mrisdp\_544 9.110e+03 3.732e+03 2.441 0.014692 \*

mrisdp\_545 8.001e+03 3.577e+03 2.237 0.025350 \*

mrisdp\_546 9.645e+03 3.458e+03 2.789 0.005309 \*\*

mrisdp\_547 9.072e+03 3.500e+03 2.592 0.009564 \*\*

mrisdp\_548 9.531e+03 3.464e+03 2.751 0.005966 \*\*

mrisdp\_549 9.637e+03 3.488e+03 2.763 0.005751 \*\*

mrisdp\_550 8.974e+03 3.478e+03 2.580 0.009911 \*\*

mrisdp\_551 9.654e+03 3.475e+03 2.778 0.005497 \*\*

mrisdp\_552 9.590e+03 3.451e+03 2.779 0.005477 \*\*

mrisdp\_553 9.321e+03 3.453e+03 2.699 0.006979 \*\*

mrisdp\_554 9.177e+03 3.455e+03 2.656 0.007929 \*\*

mrisdp\_555 1.016e+04 3.468e+03 2.930 0.003407 \*\*

mrisdp\_556 9.132e+03 3.478e+03 2.626 0.008673 \*\*

mrisdp\_557 9.724e+03 3.456e+03 2.814 0.004918 \*\*

mrisdp\_558 6.748e+03 3.540e+03 1.906 0.056672 .

mrisdp\_559 1.054e+04 3.722e+03 2.832 0.004650 \*\*

mrisdp\_560 1.082e+04 3.782e+03 2.862 0.004236 \*\*

mrisdp\_561 9.202e+03 3.465e+03 2.656 0.007936 \*\*

mrisdp\_562 8.391e+03 3.537e+03 2.372 0.017723 \*

mrisdp\_563 9.326e+03 3.543e+03 2.632 0.008509 \*\*

mrisdp\_564 9.389e+03 3.460e+03 2.714 0.006679 \*\*

mrisdp\_565 9.513e+03 3.452e+03 2.756 0.005880 \*\*

mrisdp\_566 8.131e+03 3.666e+03 2.218 0.026599 \*

mrisdp\_567 1.234e+04 3.933e+03 3.136 0.001722 \*\*

mrisdp\_568 8.126e+03 3.740e+03 2.173 0.029839 \*

mrisdp\_569 9.538e+03 3.480e+03 2.740 0.006162 \*\*

mrisdp\_570 9.347e+03 3.469e+03 2.694 0.007079 \*\*

mrisdp\_571 1.059e+04 3.503e+03 3.023 0.002515 \*\*

mrisdp\_572 9.417e+03 3.529e+03 2.669 0.007644 \*\*

mrisdp\_573 9.305e+03 3.524e+03 2.640 0.008310 \*\*

mrisdp\_574 1.038e+04 3.858e+03 2.690 0.007171 \*\*

mrisdp\_575 8.298e+03 3.662e+03 2.266 0.023511 \*

mrisdp\_576 8.658e+03 3.617e+03 2.394 0.016714 \*

mrisdp\_577 8.242e+03 3.535e+03 2.332 0.019767 \*

mrisdp\_578 1.116e+04 3.824e+03 2.918 0.003542 \*\*

mrisdp\_579 8.836e+03 3.456e+03 2.557 0.010607 \*

mrisdp\_580 9.339e+03 3.440e+03 2.715 0.006656 \*\*

mrisdp\_581 9.521e+03 3.451e+03 2.759 0.005826 \*\*

mrisdp\_582 1.134e+04 3.578e+03 3.168 0.001547 \*\*

mrisdp\_583 9.727e+03 3.454e+03 2.816 0.004880 \*\*

mrisdp\_584 9.092e+03 3.554e+03 2.558 0.010548 \*

mrisdp\_585 9.060e+03 3.521e+03 2.573 0.010112 \*

mrisdp\_586 9.522e+03 3.562e+03 2.673 0.007539 \*\*

mrisdp\_587 1.037e+04 3.521e+03 2.945 0.003242 \*\*

mrisdp\_588 9.899e+03 3.481e+03 2.844 0.004476 \*\*

mrisdp\_589 8.423e+03 3.729e+03 2.259 0.023945 \*

mrisdp\_590 7.715e+03 3.850e+03 2.004 0.045161 \*

mrisdp\_591 9.330e+03 3.564e+03 2.618 0.008874 \*\*

mrisdp\_592 1.072e+04 3.490e+03 3.073 0.002129 \*\*

mrisdp\_593 9.248e+03 3.536e+03 2.615 0.008951 \*\*

mrisdp\_594 8.825e+03 3.472e+03 2.542 0.011056 \*

mrisdp\_595 8.942e+03 3.470e+03 2.577 0.010004 \*

mrisdp\_596 9.261e+03 3.477e+03 2.663 0.007763 \*\*

mrisdp\_597 8.829e+03 3.730e+03 2.367 0.017996 \*

mrisdp\_598 8.489e+03 3.511e+03 2.418 0.015654 \*

mrisdp\_599 1.048e+04 3.550e+03 2.953 0.003169 \*\*

mrisdp\_600 9.357e+03 3.448e+03 2.714 0.006674 \*\*

mrisdp\_601 1.296e+04 4.173e+03 3.106 0.001911 \*\*

mrisdp\_602 -7.475e+03 4.735e+03 -1.579 0.114490

mrisdp\_603 -1.381e+04 5.601e+03 -2.465 0.013726 \*

mrisdp\_604 4.180e+03 2.451e+03 1.706 0.088169 .

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 9.624 on 4325 degrees of freedom

Multiple R-squared: 0.07265, Adjusted R-squared: 0.03062

F-statistic: 1.729 on 196 and 4325 DF, p-value: 3.267e-09

# BPM

Call:

lm(formula = bpm\_y\_scr\_internal\_t ~ demo\_brthdat\_v2 + demo\_sex\_v2 +

race\_ethnicity, data = train\_data)

Residuals:

Min 1Q Median 3Q Max

-3.9358 -3.0469 -2.6319 0.9531 22.3681

Coefficients:

Estimate Std. Error t value Pr(>|t|)

(Intercept) 51.91740 1.51751 34.212 < 2e-16 \*\*\*

demo\_brthdat\_v2 0.09039 0.15047 0.601 0.54806

demo\_sex\_v2Male 0.41500 0.15219 2.727 0.00642 \*\*

race\_ethnicityBlack -0.08343 0.55405 -0.151 0.88031

race\_ethnicityHispanic 0.69945 0.54170 1.291 0.19670

race\_ethnicityOther 0.23426 0.56728 0.413 0.67966

race\_ethnicityWhite -0.09904 0.52323 -0.189 0.84987

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 5.106 on 4515 degrees of freedom

Multiple R-squared: 0.005456, Adjusted R-squared: 0.004134

F-statistic: 4.128 on 6 and 4515 DF, p-value: 0.0003862

Call:

lm(formula = bpm\_y\_scr\_internal\_t ~ latent\_factor\_ss\_general\_ses +

latent\_factor\_ss\_social + latent\_factor\_ss\_perinatal, data = train\_data)

Residuals:

Min 1Q Median 3Q Max

-7.0288 -3.0807 -2.2251 0.9193 22.3220

Coefficients:

Estimate Std. Error t value Pr(>|t|)

(Intercept) 53.14383 0.07600 699.286 < 2e-16 \*\*\*

latent\_factor\_ss\_general\_ses -0.60756 0.10253 -5.926 3.34e-09 \*\*\*

latent\_factor\_ss\_social -0.68157 0.10710 -6.364 2.16e-10 \*\*\*

latent\_factor\_ss\_perinatal 0.10091 0.09874 1.022 0.307

---

Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 5.075 on 4518 degrees of freedom

Multiple R-squared: 0.01673, Adjusted R-squared: 0.01608

F-statistic: 25.63 on 3 and 4518 DF, p-value: < 2.2e-16

Call:

lm(formula = bpm\_y\_scr\_internal\_t ~ ., data = model\_data)

Residuals:

Min 1Q Median 3Q Max

-8.122 -3.082 -1.835 1.096 21.797

Coefficients: (3 not defined because of singularities)

Estimate Std. Error t value Pr(>|t|)

(Intercept) 5.483e+01 2.157e+00 25.424 < 2e-16 \*\*\*

smri\_vol\_scs\_cbwmatterlh -3.322e+02 3.136e+02 -1.059 0.2896

smri\_vol\_scs\_ltventriclelh 1.460e+05 2.111e+05 0.692 0.4892

smri\_vol\_scs\_inflatventlh 1.455e+05 2.111e+05 0.689 0.4909

smri\_vol\_scs\_crbwmatterlh 4.723e+02 4.991e+02 0.946 0.3441

smri\_vol\_scs\_crbcortexlh 2.409e+02 4.934e+02 0.488 0.6254

smri\_vol\_scs\_tplh -2.102e+03 9.488e+02 -2.215 0.0268 \*

smri\_vol\_scs\_caudatelh -7.490e+02 1.232e+03 -0.608 0.5432

smri\_vol\_scs\_putamenlh -1.509e+03 1.154e+03 -1.307 0.1911

smri\_vol\_scs\_pallidumlh -5.639e+02 1.305e+03 -0.432 0.6657

smri\_vol\_scs\_3rdventricle 1.461e+05 2.111e+05 0.692 0.4889

smri\_vol\_scs\_4thventricle 1.457e+05 2.111e+05 0.690 0.4901

smri\_vol\_scs\_bstem 5.053e+01 1.327e+02 0.381 0.7034

smri\_vol\_scs\_hpuslh -7.613e+02 1.124e+03 -0.677 0.4984

smri\_vol\_scs\_amygdalalh -7.533e+02 1.270e+03 -0.593 0.5530

smri\_vol\_scs\_csf 8.198e+02 8.694e+02 0.943 0.3458

smri\_vol\_scs\_aal -4.690e+03 2.037e+03 -2.303 0.0213 \*

smri\_vol\_scs\_vedclh -1.629e+03 1.352e+03 -1.204 0.2286

smri\_vol\_scs\_cbwmatterrh -4.197e+02 3.184e+02 -1.318 0.1875

smri\_vol\_scs\_ltventriclerh 1.463e+05 2.111e+05 0.693 0.4884

smri\_vol\_scs\_inflatventrh 1.462e+05 2.111e+05 0.693 0.4885

smri\_vol\_scs\_crbwmatterrh 2.235e+02 4.952e+02 0.451 0.6518

smri\_vol\_scs\_crbcortexrh 4.038e+02 4.897e+02 0.825 0.4096

smri\_vol\_scs\_tprh -6.544e+01 1.039e+03 -0.063 0.9498

smri\_vol\_scs\_caudaterh -1.766e+03 1.198e+03 -1.474 0.1405

smri\_vol\_scs\_putamenrh -9.919e+02 1.161e+03 -0.854 0.3931

smri\_vol\_scs\_pallidumrh -2.034e+03 1.346e+03 -1.511 0.1308

smri\_vol\_scs\_hpusrh -1.535e+03 1.131e+03 -1.357 0.1749

smri\_vol\_scs\_amygdalarh -1.107e+03 1.390e+03 -0.796 0.4258

smri\_vol\_scs\_aar 3.165e+02 2.178e+03 0.145 0.8845

smri\_vol\_scs\_vedcrh -5.255e+02 1.355e+03 -0.388 0.6982

smri\_vol\_scs\_wmhint 1.344e+01 4.217e+02 0.032 0.9746

smri\_vol\_scs\_wmhintlh NA NA NA NA

smri\_vol\_scs\_wmhintrh NA NA NA NA

smri\_vol\_scs\_ccps -2.454e+03 1.411e+03 -1.740 0.0820 .

smri\_vol\_scs\_ccmidps 1.326e+03 1.977e+03 0.671 0.5025

smri\_vol\_scs\_ccct 2.270e+03 1.489e+03 1.525 0.1274

smri\_vol\_scs\_ccmidat -3.364e+02 1.285e+03 -0.262 0.7934

smri\_vol\_scs\_ccat -5.855e+03 1.305e+03 -4.486 7.46e-06 \*\*\*

smri\_vol\_scs\_wholeb -3.440e+02 4.851e+02 -0.709 0.4783

smri\_vol\_scs\_latventricles NA NA NA NA

smri\_vol\_scs\_allventricles -1.468e+05 2.111e+05 -0.695 0.4868

smri\_vol\_scs\_suprateialv 7.301e+02 3.831e+02 1.906 0.0567 .

smri\_vol\_scs\_subcorticalgv 8.519e+02 7.860e+02 1.084 0.2785

mrisdp\_454 -3.162e+02 1.312e+03 -0.241 0.8096

mrisdp\_455 -8.632e+02 1.256e+03 -0.687 0.4921

mrisdp\_456 -1.058e+03 1.289e+03 -0.820 0.4120

mrisdp\_457 -8.535e+02 1.265e+03 -0.674 0.5000

mrisdp\_458 -1.696e+03 1.302e+03 -1.302 0.1929

mrisdp\_459 -1.390e+03 1.266e+03 -1.098 0.2724

mrisdp\_460 -9.878e+02 1.290e+03 -0.766 0.4438

mrisdp\_461 -1.400e+03 1.304e+03 -1.073 0.2833

mrisdp\_462 -8.532e+02 1.335e+03 -0.639 0.5227

mrisdp\_463 -1.698e+03 1.543e+03 -1.100 0.2713

mrisdp\_464 -8.285e+02 1.301e+03 -0.637 0.5242

mrisdp\_465 -9.730e+02 1.270e+03 -0.766 0.4435

mrisdp\_466 1.060e+02 1.347e+03 0.079 0.9373

mrisdp\_467 -1.080e+03 1.261e+03 -0.856 0.3918

mrisdp\_468 -1.153e+03 1.245e+03 -0.926 0.3544

mrisdp\_469 -1.104e+03 1.242e+03 -0.888 0.3745

mrisdp\_470 -1.169e+03 1.468e+03 -0.797 0.4257

mrisdp\_471 -1.069e+03 1.381e+03 -0.774 0.4388

mrisdp\_472 -1.349e+03 1.252e+03 -1.077 0.2813

mrisdp\_473 -9.824e+02 1.287e+03 -0.763 0.4452

mrisdp\_474 -7.533e+02 1.254e+03 -0.601 0.5479

mrisdp\_475 -8.761e+02 1.257e+03 -0.697 0.4859

mrisdp\_476 -7.700e+02 1.264e+03 -0.609 0.5424

mrisdp\_477 -1.210e+03 1.263e+03 -0.958 0.3380

mrisdp\_478 -1.159e+03 1.249e+03 -0.928 0.3533

mrisdp\_479 -1.117e+03 1.250e+03 -0.894 0.3716

mrisdp\_480 -1.268e+03 1.253e+03 -1.012 0.3118

mrisdp\_481 -1.044e+03 1.261e+03 -0.828 0.4079

mrisdp\_482 -1.334e+03 1.263e+03 -1.056 0.2911

mrisdp\_483 -1.567e+03 1.254e+03 -1.250 0.2114

mrisdp\_484 -1.132e+03 1.302e+03 -0.869 0.3848

mrisdp\_485 -8.234e+02 1.370e+03 -0.601 0.5479

mrisdp\_486 -1.633e+03 1.361e+03 -1.199 0.2304

mrisdp\_487 -8.910e+02 1.264e+03 -0.705 0.4810

mrisdp\_488 1.127e+01 1.313e+03 0.009 0.9932

mrisdp\_489 -1.701e+03 1.290e+03 -1.319 0.1874

mrisdp\_490 -1.133e+03 1.247e+03 -0.908 0.3637

mrisdp\_491 -1.103e+03 1.251e+03 -0.882 0.3778

mrisdp\_492 -1.276e+02 1.717e+03 -0.074 0.9407

mrisdp\_493 -1.800e+03 1.538e+03 -1.170 0.2419

mrisdp\_494 7.011e+02 1.471e+03 0.477 0.6337

mrisdp\_495 -1.474e+03 1.284e+03 -1.148 0.2511

mrisdp\_496 -1.299e+03 1.266e+03 -1.026 0.3051

mrisdp\_497 -2.162e+03 1.313e+03 -1.648 0.0995 .

mrisdp\_498 -1.365e+03 1.317e+03 -1.036 0.3003

mrisdp\_499 -1.071e+03 1.370e+03 -0.782 0.4344

mrisdp\_500 -2.346e+03 1.594e+03 -1.472 0.1411

mrisdp\_501 -7.014e+02 1.342e+03 -0.523 0.6012

mrisdp\_502 -9.601e+02 1.387e+03 -0.692 0.4890

mrisdp\_503 -9.474e+02 1.318e+03 -0.719 0.4722

mrisdp\_504 -2.055e+03 1.570e+03 -1.309 0.1907

mrisdp\_505 -1.044e+03 1.260e+03 -0.829 0.4073

mrisdp\_506 -1.147e+03 1.274e+03 -0.900 0.3682

mrisdp\_507 -1.236e+03 1.251e+03 -0.988 0.3233

mrisdp\_508 -8.467e+02 1.363e+03 -0.621 0.5344

mrisdp\_509 -1.273e+03 1.253e+03 -1.016 0.3095

mrisdp\_510 -3.180e+02 1.329e+03 -0.239 0.8109

mrisdp\_511 -9.971e+02 1.324e+03 -0.753 0.4515

mrisdp\_512 -1.594e+03 1.310e+03 -1.217 0.2235

mrisdp\_513 -1.166e+03 1.316e+03 -0.886 0.3756

mrisdp\_514 -1.139e+03 1.297e+03 -0.879 0.3797

mrisdp\_515 -1.567e+03 1.508e+03 -1.040 0.2986

mrisdp\_516 -1.050e+03 1.758e+03 -0.597 0.5505

mrisdp\_517 -1.571e+03 1.326e+03 -1.185 0.2360

mrisdp\_518 -1.189e+03 1.272e+03 -0.935 0.3497

mrisdp\_519 -1.456e+03 1.351e+03 -1.078 0.2812

mrisdp\_520 -1.089e+03 1.254e+03 -0.868 0.3854

mrisdp\_521 -1.082e+03 1.263e+03 -0.856 0.3918

mrisdp\_522 -7.009e+02 1.284e+03 -0.546 0.5853

mrisdp\_523 -1.370e+03 1.301e+03 -1.053 0.2925

mrisdp\_524 -4.628e+02 1.340e+03 -0.345 0.7298

mrisdp\_525 -8.591e+02 1.287e+03 -0.668 0.5044

mrisdp\_526 -1.206e+03 1.244e+03 -0.970 0.3323

mrisdp\_527 3.832e+02 1.520e+03 0.252 0.8010

mrisdp\_528 -3.944e+02 1.856e+03 -0.212 0.8317

mrisdp\_529 9.121e+02 1.825e+03 0.500 0.6172

mrisdp\_530 1.085e+03 1.851e+03 0.586 0.5580

mrisdp\_531 1.054e+03 1.830e+03 0.576 0.5647

mrisdp\_532 1.384e+03 1.831e+03 0.756 0.4496

mrisdp\_533 9.611e+02 1.827e+03 0.526 0.5988

mrisdp\_534 3.542e+01 1.853e+03 0.019 0.9848

mrisdp\_535 7.543e+02 1.862e+03 0.405 0.6853

mrisdp\_536 1.106e+03 1.877e+03 0.589 0.5559

mrisdp\_537 1.832e+03 2.021e+03 0.906 0.3648

mrisdp\_538 8.014e+02 1.841e+03 0.435 0.6633

mrisdp\_539 7.799e+02 1.821e+03 0.428 0.6684

mrisdp\_540 1.759e+03 1.849e+03 0.952 0.3414

mrisdp\_541 9.431e+02 1.821e+03 0.518 0.6045

mrisdp\_542 1.006e+03 1.809e+03 0.556 0.5781

mrisdp\_543 9.911e+02 1.809e+03 0.548 0.5839

mrisdp\_544 -3.143e+02 1.963e+03 -0.160 0.8728

mrisdp\_545 1.251e+01 1.881e+03 0.007 0.9947

mrisdp\_546 6.504e+02 1.818e+03 0.358 0.7206

mrisdp\_547 1.074e+03 1.840e+03 0.584 0.5593

mrisdp\_548 6.822e+02 1.822e+03 0.375 0.7080

mrisdp\_549 9.463e+02 1.834e+03 0.516 0.6060

mrisdp\_550 6.541e+02 1.829e+03 0.358 0.7206

mrisdp\_551 1.297e+03 1.828e+03 0.710 0.4780

mrisdp\_552 1.039e+03 1.815e+03 0.573 0.5669

mrisdp\_553 1.018e+03 1.816e+03 0.561 0.5752

mrisdp\_554 1.187e+03 1.817e+03 0.653 0.5135

mrisdp\_555 1.063e+03 1.824e+03 0.583 0.5600

mrisdp\_556 1.108e+03 1.829e+03 0.606 0.5446

mrisdp\_557 1.236e+03 1.817e+03 0.680 0.4964

mrisdp\_558 9.785e+02 1.862e+03 0.526 0.5992

mrisdp\_559 3.587e+02 1.959e+03 0.183 0.8547

mrisdp\_560 4.834e+02 1.991e+03 0.243 0.8081

mrisdp\_561 1.153e+03 1.822e+03 0.633 0.5269

mrisdp\_562 1.467e+03 1.860e+03 0.789 0.4302

mrisdp\_563 -2.074e+02 1.863e+03 -0.111 0.9113

mrisdp\_564 7.904e+02 1.819e+03 0.434 0.6640

mrisdp\_565 9.536e+02 1.815e+03 0.525 0.5994

mrisdp\_566 2.317e+03 1.928e+03 1.202 0.2296

mrisdp\_567 2.344e+03 2.069e+03 1.133 0.2573

mrisdp\_568 9.121e+01 1.967e+03 0.046 0.9630

mrisdp\_569 8.852e+02 1.830e+03 0.484 0.6286

mrisdp\_570 1.042e+03 1.824e+03 0.571 0.5680

mrisdp\_571 1.367e+03 1.843e+03 0.741 0.4585

mrisdp\_572 8.111e+02 1.856e+03 0.437 0.6621

mrisdp\_573 1.439e+03 1.853e+03 0.777 0.4375

mrisdp\_574 -2.829e+02 2.029e+03 -0.139 0.8891

mrisdp\_575 1.220e+03 1.925e+03 0.634 0.5263

mrisdp\_576 1.431e+03 1.902e+03 0.752 0.4519

mrisdp\_577 -1.200e+02 1.860e+03 -0.065 0.9485

mrisdp\_578 6.746e+02 2.013e+03 0.335 0.7375

mrisdp\_579 7.071e+02 1.817e+03 0.389 0.6973

mrisdp\_580 9.287e+02 1.809e+03 0.513 0.6077

mrisdp\_581 1.469e+03 1.815e+03 0.809 0.4184

mrisdp\_582 8.729e+02 1.882e+03 0.464 0.6427

mrisdp\_583 8.330e+02 1.816e+03 0.459 0.6465

mrisdp\_584 6.402e+02 1.869e+03 0.343 0.7320

mrisdp\_585 1.440e+03 1.852e+03 0.778 0.4366

mrisdp\_586 2.171e+03 1.874e+03 1.159 0.2466

mrisdp\_587 7.786e+02 1.851e+03 0.421 0.6741

mrisdp\_588 1.095e+03 1.831e+03 0.598 0.5498

mrisdp\_589 8.300e+02 1.959e+03 0.424 0.6719

mrisdp\_590 1.614e+03 2.026e+03 0.797 0.4257

mrisdp\_591 1.074e+03 1.874e+03 0.573 0.5667

mrisdp\_592 9.627e+02 1.835e+03 0.525 0.5999

mrisdp\_593 1.246e+02 1.859e+03 0.067 0.9466

mrisdp\_594 8.317e+02 1.826e+03 0.455 0.6488

mrisdp\_595 8.910e+02 1.825e+03 0.488 0.6254

mrisdp\_596 1.128e+03 1.828e+03 0.617 0.5372

mrisdp\_597 7.076e+02 1.961e+03 0.361 0.7182

mrisdp\_598 1.022e+03 1.846e+03 0.554 0.5798

mrisdp\_599 1.494e+03 1.867e+03 0.800 0.4236

mrisdp\_600 8.473e+02 1.813e+03 0.467 0.6403

mrisdp\_601 1.711e+03 2.195e+03 0.779 0.4358

mrisdp\_602 1.551e+03 2.492e+03 0.623 0.5336

mrisdp\_603 -5.174e+02 2.947e+03 -0.176 0.8606

mrisdp\_604 -8.307e+02 1.290e+03 -0.644 0.5196

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 5.07 on 4330 degrees of freedom

Multiple R-squared: 0.05967, Adjusted R-squared: 0.01819

F-statistic: 1.439 on 191 and 4330 DF, p-value: 0.0001032

Call:

lm(formula = bpm\_y\_scr\_internal\_t ~ ., data = model\_data)

Residuals:

Min 1Q Median 3Q Max

-8.160 -3.089 -1.734 1.078 21.242

Coefficients: (3 not defined because of singularities)

Estimate Std. Error t value Pr(>|t|)

(Intercept) 5.463e+01 2.690e+00 20.305 < 2e-16 \*\*\*

demo\_sex\_v2Male 4.417e-01 2.000e-01 2.208 0.0273 \*

demo\_brthdat\_v2 -3.880e-02 1.587e-01 -0.244 0.8069

latent\_factor\_ss\_general\_ses -5.165e-01 1.088e-01 -4.748 2.12e-06 \*\*\*

latent\_factor\_ss\_social -6.454e-01 1.096e-01 -5.887 4.24e-09 \*\*\*

latent\_factor\_ss\_perinatal 1.004e-01 1.061e-01 0.947 0.3438

smri\_vol\_scs\_cbwmatterlh -3.571e+02 3.126e+02 -1.142 0.2535

smri\_vol\_scs\_ltventriclelh 1.365e+05 2.097e+05 0.651 0.5150

smri\_vol\_scs\_inflatventlh 1.359e+05 2.097e+05 0.648 0.5170

smri\_vol\_scs\_crbwmatterlh 3.129e+02 4.995e+02 0.626 0.5311

smri\_vol\_scs\_crbcortexlh 8.764e+01 4.945e+02 0.177 0.8593

smri\_vol\_scs\_tplh -2.164e+03 9.505e+02 -2.276 0.0229 \*

smri\_vol\_scs\_caudatelh -8.609e+02 1.237e+03 -0.696 0.4863

smri\_vol\_scs\_putamenlh -1.763e+03 1.159e+03 -1.521 0.1284

smri\_vol\_scs\_pallidumlh -8.759e+02 1.306e+03 -0.671 0.5025

smri\_vol\_scs\_3rdventricle 1.365e+05 2.097e+05 0.651 0.5152

smri\_vol\_scs\_4thventricle 1.362e+05 2.097e+05 0.650 0.5159

smri\_vol\_scs\_bstem 4.900e+01 1.320e+02 0.371 0.7105

smri\_vol\_scs\_hpuslh -7.819e+02 1.123e+03 -0.696 0.4863

smri\_vol\_scs\_amygdalalh -8.733e+02 1.273e+03 -0.686 0.4927

smri\_vol\_scs\_csf 1.016e+03 8.691e+02 1.169 0.2425

smri\_vol\_scs\_aal -5.118e+03 2.059e+03 -2.485 0.0130 \*

smri\_vol\_scs\_vedclh -1.596e+03 1.348e+03 -1.184 0.2366

smri\_vol\_scs\_cbwmatterrh -4.596e+02 3.173e+02 -1.448 0.1476

smri\_vol\_scs\_ltventriclerh 1.368e+05 2.097e+05 0.652 0.5142

smri\_vol\_scs\_inflatventrh 1.368e+05 2.097e+05 0.652 0.5142

smri\_vol\_scs\_crbwmatterrh 6.822e+01 4.961e+02 0.138 0.8906

smri\_vol\_scs\_crbcortexrh 2.128e+02 4.913e+02 0.433 0.6650

smri\_vol\_scs\_tprh -3.401e+02 1.042e+03 -0.326 0.7443

smri\_vol\_scs\_caudaterh -1.788e+03 1.190e+03 -1.502 0.1332

smri\_vol\_scs\_putamenrh -1.086e+03 1.158e+03 -0.938 0.3485

smri\_vol\_scs\_pallidumrh -2.119e+03 1.341e+03 -1.580 0.1142

smri\_vol\_scs\_hpusrh -1.548e+03 1.129e+03 -1.371 0.1705

smri\_vol\_scs\_amygdalarh -1.384e+03 1.390e+03 -0.995 0.3196

smri\_vol\_scs\_aar 2.638e+02 2.166e+03 0.122 0.9031

smri\_vol\_scs\_vedcrh -8.001e+02 1.353e+03 -0.591 0.5544

smri\_vol\_scs\_wmhint 4.557e+01 4.191e+02 0.109 0.9134

smri\_vol\_scs\_wmhintlh NA NA NA NA

smri\_vol\_scs\_wmhintrh NA NA NA NA

smri\_vol\_scs\_ccps -2.203e+03 1.407e+03 -1.566 0.1174

smri\_vol\_scs\_ccmidps 1.486e+03 1.967e+03 0.756 0.4500

smri\_vol\_scs\_ccct 2.367e+03 1.482e+03 1.597 0.1104

smri\_vol\_scs\_ccmidat -4.650e+02 1.276e+03 -0.364 0.7156

smri\_vol\_scs\_ccat -5.514e+03 1.305e+03 -4.226 2.43e-05 \*\*\*

smri\_vol\_scs\_wholeb -1.745e+02 4.862e+02 -0.359 0.7197

smri\_vol\_scs\_latventricles NA NA NA NA

smri\_vol\_scs\_allventricles -1.372e+05 2.097e+05 -0.654 0.5130

smri\_vol\_scs\_suprateialv 5.907e+02 3.825e+02 1.544 0.1226

smri\_vol\_scs\_subcorticalgv 9.644e+02 7.888e+02 1.223 0.2216

mrisdp\_454 -7.226e+02 1.304e+03 -0.554 0.5796

mrisdp\_455 -1.154e+03 1.249e+03 -0.924 0.3556

mrisdp\_456 -1.308e+03 1.282e+03 -1.020 0.3076

mrisdp\_457 -1.159e+03 1.258e+03 -0.921 0.3569

mrisdp\_458 -1.888e+03 1.294e+03 -1.459 0.1447

mrisdp\_459 -1.636e+03 1.258e+03 -1.301 0.1933

mrisdp\_460 -1.179e+03 1.281e+03 -0.920 0.3577

mrisdp\_461 -1.577e+03 1.296e+03 -1.217 0.2238

mrisdp\_462 -1.211e+03 1.327e+03 -0.912 0.3616

mrisdp\_463 -2.258e+03 1.535e+03 -1.471 0.1415

mrisdp\_464 -1.037e+03 1.293e+03 -0.802 0.4226

mrisdp\_465 -1.214e+03 1.261e+03 -0.962 0.3360

mrisdp\_466 -1.151e+02 1.338e+03 -0.086 0.9314

mrisdp\_467 -1.344e+03 1.253e+03 -1.073 0.2835

mrisdp\_468 -1.414e+03 1.237e+03 -1.143 0.2532

mrisdp\_469 -1.386e+03 1.235e+03 -1.123 0.2616

mrisdp\_470 -1.386e+03 1.458e+03 -0.951 0.3418

mrisdp\_471 -1.239e+03 1.372e+03 -0.903 0.3665

mrisdp\_472 -1.640e+03 1.244e+03 -1.318 0.1874

mrisdp\_473 -1.224e+03 1.279e+03 -0.957 0.3385

mrisdp\_474 -1.000e+03 1.246e+03 -0.803 0.4221

mrisdp\_475 -1.123e+03 1.249e+03 -0.899 0.3686

mrisdp\_476 -1.020e+03 1.256e+03 -0.812 0.4166

mrisdp\_477 -1.368e+03 1.255e+03 -1.090 0.2756

mrisdp\_478 -1.440e+03 1.241e+03 -1.161 0.2459

mrisdp\_479 -1.369e+03 1.242e+03 -1.102 0.2706

mrisdp\_480 -1.486e+03 1.245e+03 -1.193 0.2328

mrisdp\_481 -1.285e+03 1.253e+03 -1.026 0.3051

mrisdp\_482 -1.581e+03 1.255e+03 -1.260 0.2079

mrisdp\_483 -1.857e+03 1.246e+03 -1.490 0.1362

mrisdp\_484 -1.492e+03 1.294e+03 -1.153 0.2489

mrisdp\_485 -1.142e+03 1.361e+03 -0.839 0.4017

mrisdp\_486 -1.926e+03 1.353e+03 -1.424 0.1546

mrisdp\_487 -1.169e+03 1.256e+03 -0.930 0.3523

mrisdp\_488 -3.951e+02 1.305e+03 -0.303 0.7622

mrisdp\_489 -1.996e+03 1.282e+03 -1.556 0.1197

mrisdp\_490 -1.385e+03 1.239e+03 -1.118 0.2636

mrisdp\_491 -1.334e+03 1.243e+03 -1.073 0.2832

mrisdp\_492 -3.456e+02 1.705e+03 -0.203 0.8394

mrisdp\_493 -2.045e+03 1.527e+03 -1.339 0.1807

mrisdp\_494 5.402e+02 1.461e+03 0.370 0.7116

mrisdp\_495 -1.688e+03 1.276e+03 -1.323 0.1858

mrisdp\_496 -1.546e+03 1.258e+03 -1.229 0.2192

mrisdp\_497 -2.377e+03 1.304e+03 -1.823 0.0684 .

mrisdp\_498 -1.476e+03 1.309e+03 -1.128 0.2595

mrisdp\_499 -1.389e+03 1.362e+03 -1.020 0.3076

mrisdp\_500 -2.656e+03 1.586e+03 -1.675 0.0941 .

mrisdp\_501 -9.543e+02 1.333e+03 -0.716 0.4742

mrisdp\_502 -1.278e+03 1.379e+03 -0.927 0.3539

mrisdp\_503 -1.131e+03 1.309e+03 -0.864 0.3875

mrisdp\_504 -2.243e+03 1.560e+03 -1.437 0.1507

mrisdp\_505 -1.298e+03 1.252e+03 -1.037 0.2998

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mrisdp\_512 -1.811e+03 1.302e+03 -1.391 0.1642

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mrisdp\_519 -1.746e+03 1.343e+03 -1.301 0.1934

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mrisdp\_521 -1.303e+03 1.255e+03 -1.038 0.2995

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mrisdp\_524 -6.813e+02 1.331e+03 -0.512 0.6087

mrisdp\_525 -1.066e+03 1.279e+03 -0.834 0.4045

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mrisdp\_530 6.117e+02 1.841e+03 0.332 0.7397

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mrisdp\_536 6.722e+02 1.867e+03 0.360 0.7189

mrisdp\_537 1.078e+03 2.012e+03 0.536 0.5920

mrisdp\_538 2.123e+02 1.831e+03 0.116 0.9077

mrisdp\_539 3.110e+02 1.811e+03 0.172 0.8637

mrisdp\_540 1.240e+03 1.838e+03 0.674 0.5001

mrisdp\_541 4.388e+02 1.811e+03 0.242 0.8085

mrisdp\_542 5.123e+02 1.799e+03 0.285 0.7758

mrisdp\_543 4.986e+02 1.799e+03 0.277 0.7817

mrisdp\_544 -7.488e+02 1.952e+03 -0.384 0.7013

mrisdp\_545 -5.287e+02 1.871e+03 -0.283 0.7775

mrisdp\_546 1.379e+02 1.808e+03 0.076 0.9392

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mrisdp\_550 1.901e+02 1.819e+03 0.105 0.9168

mrisdp\_551 8.439e+02 1.818e+03 0.464 0.6425

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mrisdp\_566 1.846e+03 1.917e+03 0.963 0.3355

mrisdp\_567 2.039e+03 2.057e+03 0.991 0.3216

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mrisdp\_569 3.682e+02 1.820e+03 0.202 0.8397

mrisdp\_570 5.872e+02 1.814e+03 0.324 0.7462

mrisdp\_571 1.048e+03 1.832e+03 0.572 0.5673

mrisdp\_572 3.922e+02 1.846e+03 0.212 0.8317

mrisdp\_573 8.840e+02 1.843e+03 0.480 0.6315

mrisdp\_574 -8.415e+02 2.017e+03 -0.417 0.6766

mrisdp\_575 7.136e+02 1.915e+03 0.373 0.7095

mrisdp\_576 7.726e+02 1.892e+03 0.408 0.6830

mrisdp\_577 -6.182e+02 1.849e+03 -0.334 0.7381

mrisdp\_578 4.356e+02 2.000e+03 0.218 0.8276

mrisdp\_579 1.786e+02 1.807e+03 0.099 0.9213

mrisdp\_580 4.197e+02 1.799e+03 0.233 0.8155

mrisdp\_581 9.959e+02 1.805e+03 0.552 0.5811

mrisdp\_582 3.790e+02 1.871e+03 0.203 0.8395

mrisdp\_583 3.290e+02 1.806e+03 0.182 0.8555

mrisdp\_584 1.282e+02 1.858e+03 0.069 0.9450

mrisdp\_585 8.799e+02 1.841e+03 0.478 0.6328

mrisdp\_586 1.724e+03 1.863e+03 0.926 0.3547

mrisdp\_587 2.437e+02 1.841e+03 0.132 0.8947

mrisdp\_588 6.424e+02 1.820e+03 0.353 0.7242

mrisdp\_589 2.366e+02 1.950e+03 0.121 0.9034

mrisdp\_590 9.614e+02 2.014e+03 0.477 0.6331

mrisdp\_591 5.935e+02 1.864e+03 0.318 0.7502

mrisdp\_592 4.848e+02 1.825e+03 0.266 0.7905

mrisdp\_593 -4.551e+02 1.849e+03 -0.246 0.8056

mrisdp\_594 3.426e+02 1.816e+03 0.189 0.8504

mrisdp\_595 4.786e+02 1.815e+03 0.264 0.7920

mrisdp\_596 5.907e+02 1.818e+03 0.325 0.7453

mrisdp\_597 2.244e+02 1.951e+03 0.115 0.9084

mrisdp\_598 5.033e+02 1.836e+03 0.274 0.7840

mrisdp\_599 9.883e+02 1.857e+03 0.532 0.5946

mrisdp\_600 3.691e+02 1.803e+03 0.205 0.8378

mrisdp\_601 1.218e+03 2.183e+03 0.558 0.5769

mrisdp\_602 2.014e+03 2.476e+03 0.813 0.4161

mrisdp\_603 1.661e+02 2.929e+03 0.057 0.9548

mrisdp\_604 -1.066e+03 1.282e+03 -0.832 0.4057

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Signif. codes: 0 ‘\*\*\*’ 0.001 ‘\*\*’ 0.01 ‘\*’ 0.05 ‘.’ 0.1 ‘ ’ 1

Residual standard error: 5.033 on 4325 degrees of freedom

Multiple R-squared: 0.07437, Adjusted R-squared: 0.03243

F-statistic: 1.773 on 196 and 4325 DF, p-value: 5.508e-10