Analyzing joined younger cohort data

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Using test scores data from the school survey

```
# Estimation for the AA sample
iv3aa_yc <- felm(</pre>
 formula = maths_score_w2 ~ entype_r4 + chsex + zbfa + stunting + caredu_r1 +
   careage_r1 + hhsize + wi_new + hq_new +
   cd_new + elecq_new + ownlandhse_r1 + factor(foodsec_r3) |
   0 | (IMTI ~ E_is),
 data = schsur_yl_aa
iv4aa_yc <- felm(</pre>
 formula = literacy_score_w2 ~ entype_r4 + chsex + zbfa + stunting + caredu_r1 +
   careage_r1 + hhsize + wi_new + hq_new +
   cd_new + elecq_new + ownlandhse_r1 + factor(foodsec_r3) |
   0 | (IMTI ~ E_is),
 data = schsur_yl_aa
stargazer(
 iv3aa_yc, iv4aa_yc,
 keep = c("IMTI"),
 keep.stat = c("n", "rsq"),
 type = "text"
)
##
Dependent variable:
             _____
##
             maths_score_w2 literacy_score_w2
           (1) (2)
## `IMTI(fit)` -0.093 0.090
## (0.230) (0.218)
##
## Observations 63
```

```
0.222
## R2
                        0.232
*p<0.1; **p<0.05; ***p<0.01
## Note:
stargazer(
 iv3aa_yc$stage1, iv4aa_yc$stage1,
 keep = c("E_is"),
keep.stat = c("n"),
 type = "text"
)
##
Dependent variable:
##
##
##
                       (2)
             (1)
                     8.000***
            8.000***
## E_is
            (0.000)
                     (0.000)
##
## Observations 63 63
## Note: *p<0.1; **p<0.05; ***p<0.01
using yl cognitive scores:
```

```
iv5aa_yc <- felm(</pre>
 formula = math_score ~ entype_r4 + chsex + zbfa + stunting + caredu_r1 +
    careage_r1 + hhsize + wi_new + hq_new +
    cd_new + elecq_new + ownlandhse_r1 + factor(foodsec_r3) |
    0 | (IMTI ~ E is),
  data = schsur_yl_aa
)
iv6aa_yc <- felm(</pre>
  formula = verbal_score ~ entype_r4 + chsex + zbfa + stunting + caredu_r1 +
    careage_r1 + hhsize + wi_new + hq_new +
    cd_new + elecq_new + ownlandhse_r1 + factor(foodsec_r3) |
    0 | (IMTI ~ E_is),
 data = schsur_yl_aa
stargazer(
  iv5aa_yc, iv6aa_yc,
 keep = c("IMTI"),
 keep.stat = c("n", "rsq"),
 type = "text"
```

```
##
Dependent variable:
##
        -----
##
         math_score verbal_score
##
         (1) (2)
## `IMTI(fit)` 0.187 1.193
           (0.218) (2.173)
##
##
## Observations 71 70
## R2 0.116 0.268
## ==============
## Note:
      *p<0.1; **p<0.05; ***p<0.01
stargazer(
 iv5aa_yc$stage1, iv6aa_yc$stage1,
 keep = c("E_is"),
 keep.stat = c("n"),
 type = "text"
##
## ==============
           Dependent variable:
##
        -----
                NA
##
           (1) (2)
## -----
          7.764***
## E_is
##
          (0.160)
                   (0.163)
##
## Observations 71 70
*p<0.1; **p<0.05; ***p<0.01
## Note:
```