Data Description

These data are from a randomized controlled trial of fourth and fifth grades children in Gansu and Shaanxi Province, China conducted in June 2012. The RCT covered 3177 of 19934 children with visual acuity <6/12 in either eye without glasses correctable to >6/12 with glasses at 252 schools across 22 counties in the two provinces. Children were randomized by school (84 schools per arm) to one of three interventions at the beginning of the school year: prescription for glasses only (control group), vouchers for free glasses at a local facility, or free glasses provided in class.The dataset includes information on student characteristics (gender, age, minority, whether the student boards at school) and family background (household wealth, parent education, and parent migration status) as well as student physical health (vision), and academic performance (scores from a standardized math exam consisting of questions created for the Trends in International Mathematics and Science Study (TIMSS)).

Codebook

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age Age (Year)

---

type: numeric (byte)
label: age, but 8 nonmissing values are not labeled

range: [8,15] units: 1
unique values: 8 missing .: 3/3177

tabulation: Freq. Numeric Label

Freq.	Numeric	Label
52	8	
475	9	
1157	10	
957	11	
402	12	
100	13	
24	14	
7	15	
3	.	

---

male Male

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type: numeric (byte)
label: yesno

range: [0,1] units: 1
unique values: 2 missing .: 0/3177

tabulation: Freq. Numeric Label
1623 0 否
1554 1 是

---
baseusage Usage_Baseline
---

type: numeric (byte)
label: yesno

range: [0,1] units: 1
unique values: 2 missing .: 0/3177

tabulation: Freq. Numeric Label
2714 0 否
463 1 是

---
aware0 Baseline Aware of being Myopic
---

type: numeric (byte)

range: [0,1] units: 1
unique values: 2 missing .: 20/3177

tabulation: Freq. Value
1693 0
1464 1
20 .

---
harmvision0 Bseline_Believe Glasses Harm Vision
---

type: numeric (byte)
label: yesno

range: [0,1] units: 1
unique values: 2 missing .: 0/3177

tabulation: Freq. Numeric Label

1900	0	否
1277	1	是

---

gansu — Gansu Residence

---

type: numeric (float)
label: yesno

range: [0,1] — units: 1
unique values: 2 — missing .: 0/3177

tabulation: Freq. Numeric Label

2019	0	否
1158	1	是

RE2 — Refractive Error (Diopters) Based on SE2, most myopic eye

---

type: numeric (float)
label: RE2

range: [1,4] — units: 1
unique values: 4 — missing .: 2/3177

tabulation: Freq. Numeric Label

1215	1	<-2.00
1772	2	>=-2.00 <-0.50
45	3	>=-0.50 <0.50
143	4	>=0.50
2	.	

---

va18 — VA of Better Seeing Eye < 6/18

---

type: numeric (float)
label: yesno

range: [0,1] — units: 1
unique values: 2 — missing .: 0/3177

tabulation: Freq. Numeric Label

1364	0	否
1813	1	是

---

zmath Baseline Standardeized Math Scores

---

type: numeric (float)

range: [-2.6227272,2.5632114] units: 1.000e-09
unique values: 54 missing .: 1/3177

mean: .216402
std. dev: .989274

percentiles: 10% 25% 50% 75% 90%
-1.14636 -.496388 .330014 .943423 1.43729

---

pedu12 One or Both Parents with >= 12 Years of Edu

---

type: numeric (float)
label: yesno

range: [0,1] units: 1
unique values: 2 missing .: 32/3177

tabulation: Freq. Numeric Label
2501 0 否
644 1 是
32 .

---

hhwealth Household Wealth

---

type: numeric (float)
label: hhwealth

range: [1,3] units: 1
unique values: 3 missing .: 145/3177

tabulation: Freq. Numeric Label
1010 1 poor tertile
1011 2 median tertile
1011 3 rich tertile
145 .

---

bboarding Boarding at School

---

type: numeric (byte)

label: yesno

range: [0,1] units: 1
unique values: 2 missing .: 3/3177

tabulation: Freq. Numeric Label
2470 0 否
704 1 是
3 .

---
pamigrant Both Parents Out-migrated for Work
---

type: numeric (byte)
label: yesno

range: [0,1] units: 1
unique values: 2 missing .: 30/3177

tabulation: Freq. Numeric Label
2830 0 否
317 1 是
30 .

---
schid School ID
---

type: numeric (long)

range: [101011,207092] units: 1
unique values: 251 missing .: 0/3177

mean: 140503
std. dev: 47510.3

percentiles: 10% 25% 50% 75% 90%
101201 103081 107091 202021 204073

---
studentid Student ID
---

type: string (str10)

unique values: 3177 missing "": 0/3177

examples: "1021014107"
"1050915105"

"1100415140"
"2020925108"

---

newcome new students after baseline

---

type: numeric (byte)

range: [0,0] units: 1
unique values: 1 missing .: 0/3177

tabulation: Freq. Value
3177 0

---

attrition attrition between baseline and endline

---

type: numeric (byte)

range: [0,1] units: 1
unique values: 2 missing .: 0/3177

tabulation: Freq. Value
3054 0
123 1

---

givegl 35-是否需要配镜

---

type: numeric (byte)
label: yesno

range: [1,1] units: 1
unique values: 1 missing .: 0/3177

tabulation: Freq. Numeric Label
3177 1 是

---

wear2 Wear Glasses Random Check_Seven Month Later

---

type: numeric (byte)

range: [0,1] units: 1
unique values: 2 missing .: 123/3177

```
      tabulation:  Freq.  Value
                  2003  0
                  1051  1
                   123  .

-------------------------------------------------------------------------------
use2                                              Use_Seven Months Later
-------------------------------------------------------------------------------

          type:  numeric (byte)

         range:  [0,1]                units:  1
  unique values:  2                   missing .:  123/3177

      tabulation:  Freq.  Value
                  1325  0
                  1729  1
                   123  .

-------------------------------------------------------------------------------
ezmath                                      Endline Standardeized Math Scores
-------------------------------------------------------------------------------

          type:  numeric (float)

         range:  [-2.4761298,2.383235]        units:  1.000e-09
  unique values:  52                  missing .:  125/3177

          mean:   .343585
       std. dev:   .983479

      percentiles:        10%       25%       50%       75%       90%
                  -1.14636  -.362292   .514561    1.1234   1.48335

-------------------------------------------------------------------------------
major                                                Major Treatment Arms
-------------------------------------------------------------------------------

          type:  numeric (byte)
         label:  major

         range:  [1,3]                units:  1
  unique values:  3                   missing .:  0/3177

      tabulation:  Freq.   Numeric  Label
                  1036        1  Control
                   988        2  Voucher
                  1153        3  Free

-------------------------------------------------------------------------------
```

```
interaction                                   Interaction Treatment Arms
-------------------------------------------------------------------------------

            type:  numeric (byte)
           label:  interaction

           range:  [1,6]                  units:  1
    unique values:  6                     missing .:  0/3177

      tabulation:  Freq.  Numeric  Label
                    510        1  Control, No Ed
                    526        2  Control, Ed
                    492        3  Voucher, No Ed
                    496        4  Voucher, Ed
                    527        5  Free, No Ed
                    626        6  Free, Ed

-------------------------------------------------------------------------------
edu                                           Educational Training Dummy
-------------------------------------------------------------------------------

            type:  numeric (byte)

           range:  [0,1]                  units:  1
    unique values:  2                     missing .:  0/3177

      tabulation:  Freq.  Value
                   1529  0
                   1648  1

-------------------------------------------------------------------------------
con                                             Control Group Dummy
-------------------------------------------------------------------------------

            type:  numeric (byte)

           range:  [0,1]                  units:  1
    unique values:  2                     missing .:  0/3177

      tabulation:  Freq.  Value
                   2141  0
                   1036  1

-------------------------------------------------------------------------------
vou                                             Voucher Group Dummy
-------------------------------------------------------------------------------

            type:  numeric (byte)

           range:  [0,1]                  units:  1
```

```
       unique values:  2                    missing .:  0/3177

         tabulation:  Freq.  Value
                     2189  0
                      988  1

-------------------------------------------------------------------------------
fre                                                   Free Group Dummy
-------------------------------------------------------------------------------

             type:  numeric (byte)

            range:  [0,1]                    units:  1
       unique values:  2                    missing .:  0/3177

         tabulation:  Freq.  Value
                     2024  0
                     1153  1

-------------------------------------------------------------------------------
SE2                                                   most myopic eye SE
-------------------------------------------------------------------------------

             type:  numeric (float)

            range:  [-14,9]                  units:  .001
       unique values:  107                   missing .:  2/3177

             mean:  -1.95325
          std. dev:   1.61015

        percentiles:        10%       25%       50%       75%       90%
                         -3.75     -2.75     -1.75     -1.25      -.75

-------------------------------------------------------------------------------
seatchange                            seat change between baseline and endline
-------------------------------------------------------------------------------

             type:  numeric (byte)
            label:  seatchange

            range:  [1,3]                    units:  1
       unique values:  3                    missing .:  134/3177

         tabulation:  Freq.   Numeric  Label
                      750         1  move forward
                     1767         2  no change
                      526         3  move backward
                      134         .
```

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emtea_14 proportion of test questions given by teachers in class were written on the blac
---

type: numeric (byte)
label: emtea_14bel

range: [1,5] units: 1
unique values: 5 missing .: 123/3177

tabulation: Freq. Numeric Label
150 1 全部
796 2 大部分
1152 3 一半左右
778 4 很少
178 5 没有
123 .

---
reexamination 是否入选 (re-screening)
---

type: numeric (byte)
label: yesno

range: [1,1] units: 1
unique values: 1 missing .: 0/3177

tabulation: Freq. Numeric Label
3177 1 是

---
blackboard proportion of material taught on blackboard
---

type: numeric (float)
label: blackboard

range: [1,3] units: 1
unique values: 3 missing .: 123/3177

tabulation: Freq. Numeric Label
956 1 less than half
1152 2 half
946 3 more than half
123 .