## [Taleemabad Evaluation by CERP Analytics](#taleemabad-evaluation-by-cerp-analytics)

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**1. Introduction**

**2. Taleemabad’s Evaluation**

**2.1. Instrument and Data Collection**

**2.2. Sampling and Measurement**

**2.3. Summary of Results**

**2.3.1. Grades 1-3:**

50.7% of all Taleemabad students meet the criteria for all 3 subjects compared to 29.4% of control students at endline. This represents a difference of 0.46 standard deviations compared to the control group (1.58 LAYS). During baseline, the difference between Taleemabad and control students is statistically insignificant from zero for English and Mathematics. For Urdu, however, the difference was -13.6% between Taleemabad and control. At the endline, the difference between Taleemabad and control schools rises to 22.9% for English and 14.6% for Urdu (both significant at 5% level). For Mathematics, however, the difference is -2.9% (i.e. in favor of control schools, significant at 5% level).

**2.3.2. Grades 4-5:**

7.2% of all Taleemabad students meet the criteria for all 3 subjects compared to 6.2% of control students at endline. This represents a difference of 0.05 standard deviations compared to the control group (0.4 LAYS). During baseline, the difference between Taleemabad and control students is statistically insignificant from zero for English and Mathematics. For Urdu, however, the difference was -8.7% between Taleemabad and control, meaning that control schools were at a higher level than intervention schools. At the endline, the difference between Taleemabad and control schools rises to 3.6% for English, 1.5% for Mathematics and 2.2% for Urdu (all significant at 5% level).

**2.3.3. MELQO:**

At baseline, Taleemabad schools outperformed control schools by ~6 percent of overall score in pre-numeracy but lagged behind control schools in pre-literacy and motor skills by 0.35% and 1.58% respectively. At the endline, the difference between Taleemabad and control schools reduced to ~4% in pre-numeracy whereas Taleemabad schools performed better than control schools in pre-literacy and motor skills by 1.6% and 3.4% respectively. These results are statistically significant at the 5% level.

**3. Analytics by CERP:**

**3.1. School level Master Dataset and Variables (Cleaning raw datasets, Raw datasets to one master dataset at School level, Treatment Variable, Matching variable)**

| treatment

matching | 0 1 | Total

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Attrition | 5 6 | 11

Replacement | 33 5 | 38

Consistent | 21 21 | 42

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Total | 59 32 | 91

**3.2. Balance Test (Orth\_out at baseline and Control) - Results and Graphs**

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aser\_b\_english\_Nothing:mean 3.053 1.532

aser\_b\_english\_Capital:mean 2.201 3.124

aser\_b\_english\_Small:mean 37.975 19.218

aser\_b\_english\_Word:mean 36.143 27.848

aser\_b\_english\_Sentence:mean 20.628 48.278

aser\_b\_math\_Nothing:mean 1.105 0.110

aser\_b\_math\_NumRecog1\_9:mean 0.992 0.812

aser\_b\_math\_NumRecog10\_99:mean 4.691 5.216

aser\_b\_math\_Subtract:mean 29.217 28.237

aser\_b\_math\_Division:mean 28.181 42.143

aser\_b\_math\_NumRecog100\_200:mean 35.813 23.483

aser\_b\_urdu\_Nothing:mean 33.357 14.383

aser\_b\_urdu\_Letters:mean 10.596 16.409

aser\_b\_urdu\_Paragraph:mean 30.119 25.612

aser\_b\_urdu\_Story:mean 6.610 23.937

aser\_b\_urdu\_Words:mean 19.318 19.658

aser\_b\_eng\_4\_5\_Nothing:mean 6.590 2.800

aser\_b\_eng\_4\_5\_Capital:mean 0.918 1.067

aser\_b\_eng\_4\_5\_Small:mean 2.253 1.933

aser\_b\_eng\_4\_5\_Word:mean 1.658 0.450

aser\_b\_eng\_4\_5\_G2Sentence:mean 45.354 32.561

aser\_b\_eng\_4\_5\_G5Sentence:mean 8.184 4.623

aser\_b\_eng\_4\_5\_G5Story:mean 35.043 56.566

aser\_b\_maths\_4\_5\_Nothing:mean 1.885 0.000

aser\_b\_maths\_4\_5\_NumberRecog:mean 58.197 26.495

aser\_b\_maths\_4\_5\_Subtract45:mean 11.097 17.595

aser\_b\_maths\_4\_5\_Division:mean 28.821 55.910

aser\_b\_urdu\_4\_5\_Nothing:mean 23.333 10.439

aser\_b\_urdu\_4\_5\_Letters:mean 2.967 3.641

aser\_b\_urdu\_4\_5\_Words:mean 9.105 10.957

aser\_b\_urdu\_4\_5\_G2Sentence:mean 2.105 1.596

aser\_b\_urdu\_4\_5\_G2Story:mean 2.119 2.241

aser\_b\_urdu\_4\_5\_G5Story:mean 60.370 71.126

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aser\_e\_english\_Nothing:mean 20.841 5.772

aser\_e\_english\_Capital:mean 20.143 16.375

aser\_e\_english\_Small:mean 17.950 14.070

aser\_e\_english\_Word:mean 28.191 36.402

aser\_e\_english\_Sentence:mean 12.875 27.381

aser\_e\_math\_Nothing:mean 5.998 1.993

aser\_e\_math\_NumRecog1\_9:mean 1.022 0.250

aser\_e\_math\_NumRecog10\_99:mean 2.315 0.930

aser\_e\_math\_Subtract:mean 27.125 26.009

aser\_e\_math\_Division:mean 49.039 56.776

aser\_e\_math\_NumRecog100\_200:mean 14.501 14.041

aser\_e\_urdu\_Nothing:mean 39.582 32.039

aser\_e\_urdu\_Letters:mean 9.400 3.650

aser\_e\_urdu\_Paragraph:mean 19.667 24.433

aser\_e\_urdu\_Story:mean 14.226 22.512

aser\_e\_urdu\_Words:mean 17.124 17.367

aser\_e\_eng\_4\_5\_Nothing:mean 1.235 0.000

aser\_e\_eng\_4\_5\_Small:mean 2.285 0.719

aser\_e\_eng\_4\_5\_Word:mean 0.964 0.000

aser\_e\_eng\_4\_5\_G2Sentence:mean 53.706 36.521

aser\_e\_eng\_4\_5\_G5Sentence:mean 8.976 14.871

aser\_e\_eng\_4\_5\_G5Story:mean 32.834 47.888

aser\_e\_maths\_4\_5\_Nothing:mean 2.992 1.053

aser\_e\_maths\_4\_5\_NumberRecog:mean 21.271 26.047

aser\_e\_maths\_4\_5\_Subtract45:mean 15.805 10.771

aser\_e\_maths\_4\_5\_Division:mean 59.932 62.129

aser\_e\_urdu\_4\_5\_Nothing:mean 12.845 8.855

aser\_e\_urdu\_4\_5\_Letters:mean 7.464 3.039

aser\_e\_urdu\_4\_5\_Words:mean 13.398 7.921

aser\_e\_urdu\_4\_5\_G2Sentence:mean 3.330 2.459

aser\_e\_urdu\_4\_5\_G2Story:mean 5.918 9.152

aser\_e\_urdu\_4\_5\_G5Story:mean 57.044 68.574

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melqo\_b\_ev\_edible\_num\_per:mean 31.119 35.985

melqo\_b\_ev\_animal\_num\_per:mean 26.349 32.331

melqo\_b\_pl\_let\_identify\_per:mean 68.695 69.738

melqo\_b\_pl\_let\_sound\_per:mean 39.688 49.858

melqo\_b\_listcomp\_story\_per:mean 52.709 63.763

melqo\_b\_name\_writing\_per:mean 47.835 54.828

melqo\_b\_pn\_verbal\_count\_per:mean 67.829 70.091

melqo\_b\_pn\_num\_identify\_per:mean 58.375 62.840

melqo\_b\_ms\_shape1\_per:mean 67.062 77.032

melqo\_b\_ms\_shape2\_per:mean 73.720 71.390

melqo\_b\_ms\_shape3\_per:mean 53.125 62.688

sd\_melqo\_b\_ev\_edible\_num\_per:mean 11.125 11.896

sd\_melqo\_b\_ev\_animal\_num\_per:mean 10.773 13.636

sd\_melqo\_b\_pl\_let\_identify\_per:mean 19.083 21.482

sd\_melqo\_b\_pl\_let\_sound\_per:mean 19.796 22.831

sd\_melqo\_b\_listcomp\_story\_per:mean 17.242 19.030

sd\_melqo\_b\_name\_writing\_per:mean 39.058 42.480

sd\_melqo\_b\_pn\_verbal\_count\_per:mean 21.277 23.577

sd\_melqo\_b\_pn\_num\_identify\_per:mean 20.490 22.146

sd\_melqo\_b\_ms\_shape1\_per:mean 25.787 26.853

sd\_melqo\_b\_ms\_shape2\_per:mean 27.852 29.243

sd\_melqo\_b\_ms\_shape3\_per:mean 34.591 34.112

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melqo\_e\_ev\_edible\_num\_per:mean 32.609 34.611

melqo\_e\_ev\_animal\_num\_per:mean 29.548 29.929

melqo\_e\_pl\_let\_identify\_per:mean 68.780 67.020

melqo\_e\_pl\_let\_sound\_per:mean 44.696 50.038

melqo\_e\_listcomp\_story\_per:mean 62.046 60.109

melqo\_e\_name\_writing\_per:mean 57.647 52.822

melqo\_e\_pn\_verbal\_count\_per:mean 64.976 66.150

melqo\_e\_pn\_num\_identify\_per:mean 55.711 57.308

melqo\_e\_ms\_shape1\_per:mean 71.391 78.178

melqo\_e\_ms\_shape2\_per:mean 65.613 71.209

melqo\_e\_ms\_shape3\_per:mean 54.284 62.485

sd\_melqo\_e\_ev\_edible\_num\_per:mean 11.248 13.366

sd\_melqo\_e\_ev\_animal\_num\_per:mean 10.998 13.976

sd\_melqo\_e\_pl\_let\_identify\_per:mean 17.926 23.671

sd\_melqo\_e\_pl\_let\_sound\_per:mean 20.694 22.636

sd\_melqo\_e\_listcomp\_story\_per:mean 18.885 22.807

sd\_melqo\_e\_name\_writing\_per:mean 40.226 41.011

sd\_melqo\_e\_pn\_verbal\_count\_per:mean 22.731 23.773

sd\_melqo\_e\_pn\_num\_identify\_per:mean 20.423 22.310

sd\_melqo\_e\_ms\_shape1\_per:mean 31.958 29.119

sd\_melqo\_e\_ms\_shape2\_per:mean 33.858 31.273

sd\_melqo\_e\_ms\_shape3\_per:mean 37.783 37.020

**3.3. Results (with graphs)**

**3.3.1. ASER Grades 1 - 3**

**3.3.2. ASER Grades 4 - 5**

**3.3.3. MELQO**

**4. Conclusion**