CODERS' CORNER

CENTRE FOR THE STUDY OF AFRICAN ECONOMIES

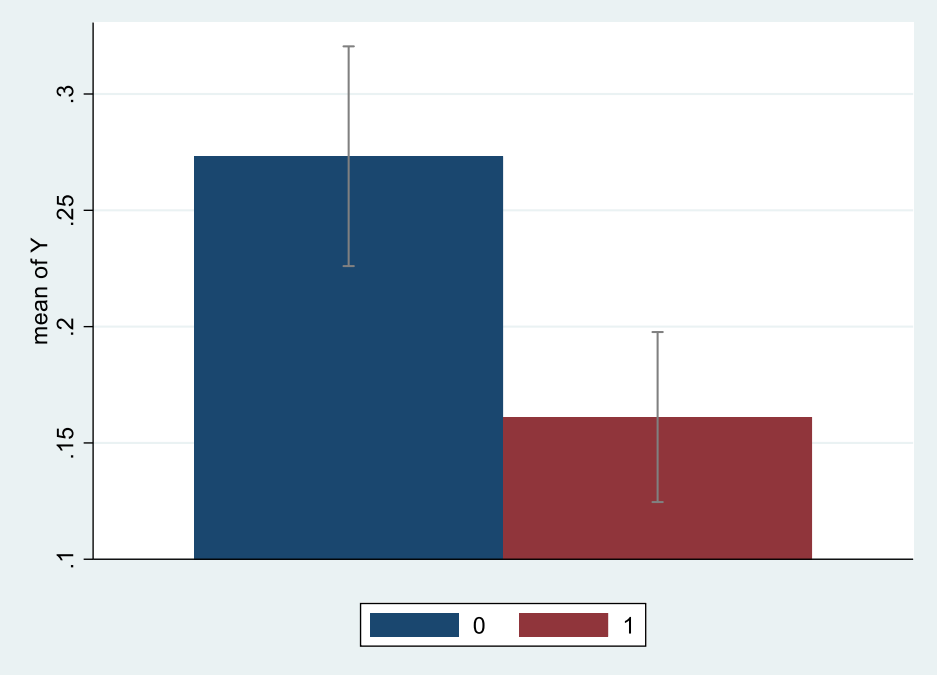
HOW TO MAKE BAR CHARTS OF IMPACTS WITH STANDARD ERRORS

Previously creating a bar chart with standard error bars was a multistep process requiring you to create the standard error range yourself and overlay two charts on top of each other (e.g. see impact evaluations' post here). The command **cibar** makes this process simple.

Let's say we want to plot a graph of impacts by two treatment groups. **cibar** takes the following syntax:

```
cibar y, over1(treatment)
```

And produces an output like this:



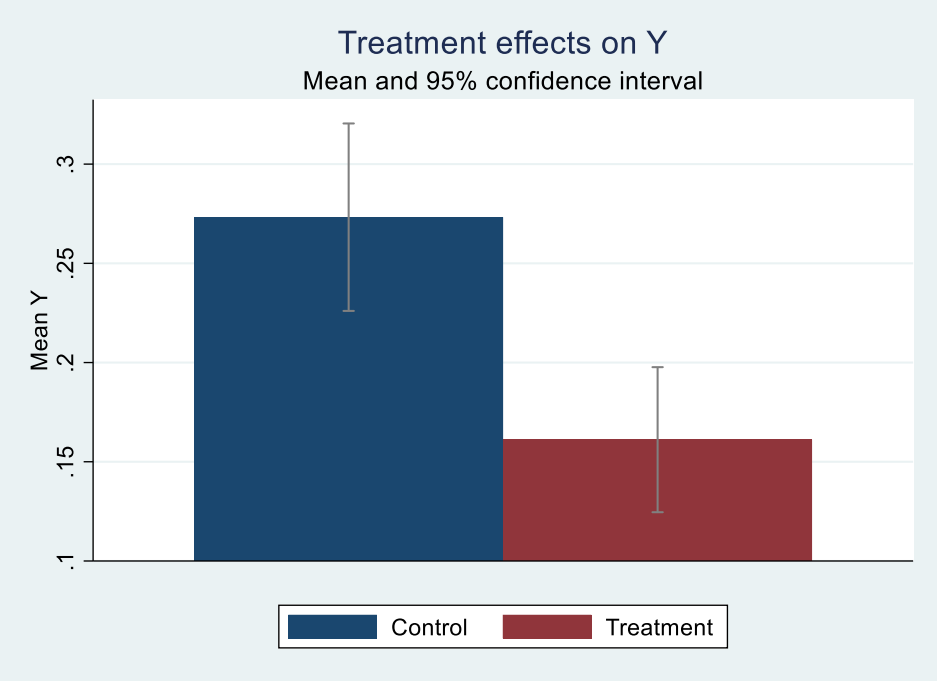
You can easily add the usual `twoway` graph options using the syntax:

```
cibar y, over1(treatment) graphopts(twoway graph options)
```

For example:

```
cibar y, over1(treatment) ///
graphopts( legend( order(1 "Control" 2 "Treatment")) ///
xtitle("") ytitle("Mean Y") ///
title("Treatment effects on Y") ///
subtitle("Mean and 95% confidence interval"))
```

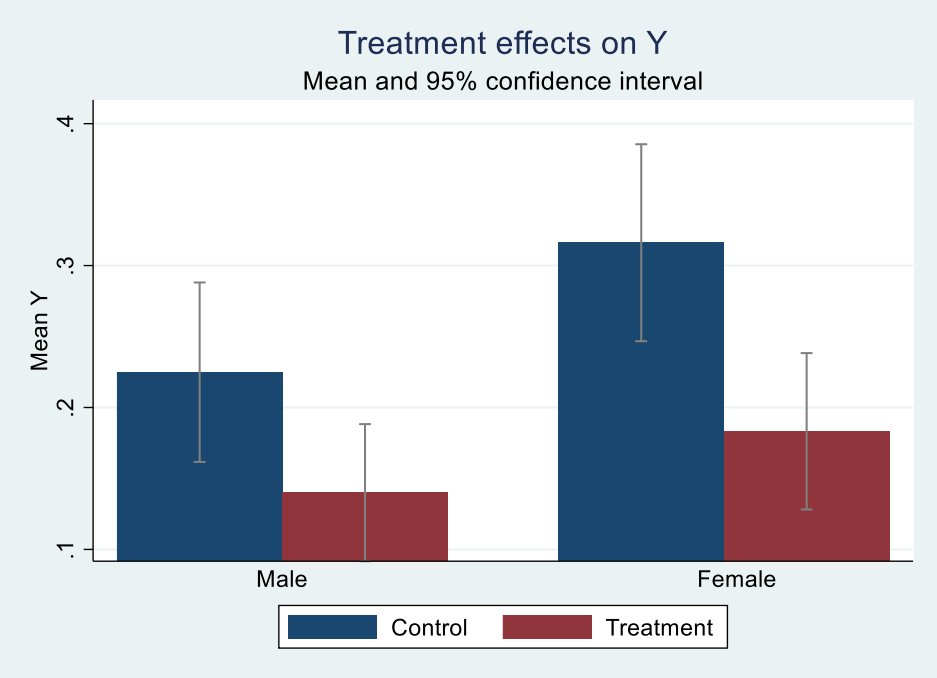
Which produces:



cibar also has the capability to show bar charts over multiple different groups using the options **over2(group2), over3(group3)** etc:

```
cibar y, over1(treatment) over2(female) ///
graphopts( legend( order(1 "Control" 2 "Treatment")) ///
xtitle("") ytitle("Mean Y") ///
title("Treatment effects on Y") ///
subtitle("Mean and 95% confidence interval"))
```

To produce something like this:



The command also has a range of capabilities to choose exactly how the bars, labels and legend look, so you can customise the chart to precisely your taste.

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