

⁺This command is part of [StataNow](#).

[Description](#)
[Remarks and examples](#)

[Quick start](#)
[Stored results](#)

[Menu](#)
[References](#)

[Syntax](#)
[Also see](#)

[Options](#)

Description

`latebalance overid` performs a test for covariate balance after estimation by `lateffects ipwra` or `lateffects kappa`.

Quick start

Test for covariate balance after `lateffects` estimation

```
latebalance overid
```

Same as above, but test for balance only in base covariates and exclude interaction terms

```
latebalance overid, bconly
```

Menu

Statistics > Postestimation

Syntax

```
latebalance overid [ , bconly nolog iterate(#) ]
```

`collect` is allowed; see [\[U\] 11.1.10 Prefix commands](#).

Options

Main

`bconly` specifies that only the base covariates be included in the test for balance. By default, the powers and interactions specified by factor-variable notation in the `lateffects` model are also included in the test for balance.

`nolog` suppresses the display of the optimization search log.

`iterate(#)` sets the maximum number of iterations to `#` in the generalized method of moments estimator used to compute the test statistic.

Remarks and examples

When the distribution of a covariate is the same for all assigned treatment levels, the covariate is said to be balanced. `latebalance overid` performs a test to see whether the covariates are balanced after `lateffects`. If the treatment-assignment model is well specified, instrumental-variables propensity-score functions of the covariates from the model are balanced.

We recommend that you read [\[CAUSAL\] latebalance](#) for an introduction to covariate balance and an overview of the implemented methods.

Stored results

latebalance overrides stores the following in `r()`:

Scalars

<code>r(p)</code>	p -value
<code>r(df)</code>	overidentifying constraints, test degrees of freedom
<code>r(chi2)</code>	χ^2 statistic

References

- Cattaneo, M. D. 2010. Efficient semiparametric estimation of multi-valued treatment effects under ignorability. *Journal of Econometrics* 155: 138–154. <https://doi.org/10.1016/j.jeconom.2009.09.023>.
- Imai, K., and M. Ratkovic. 2014. Covariate balancing propensity score. *Journal of the Royal Statistical Society, B ser.*, 76: 243–263. <https://doi.org/10.1111/rssb.12027>.

Also see

- [CAUSAL] **latebalance** — Check balance after lateeffects estimation⁺
- [CAUSAL] **lateeffects** — Local average treatment-effect estimation⁺
- [CAUSAL] **lateoverlap** — Overlap plots⁺

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