

estat lcprob — Latent class marginal probabilities
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Description

`estat lcp`rob is for use after `gsem` but not `sem`.

`estat lcp`rob reports a table of the marginal predicted latent class probabilities.

Menu

Statistics > LCA (latent class analysis) > Class marginal probabilities

Syntax

```
estat lcp
```

rob [, *options*]

<i>options</i>	Description
<code>classpr</code>	latent class probability; the default
<code>classposteriorpr</code>	posterior latent class probability
<code>nose</code>	do not estimate SEs
<code>post</code>	post margins and their VCE as estimation results
<code>display_options</code>	control column formats, row spacing, and line width

Options

`classpr`, the default, calculates marginal predicted probabilities for each latent class.

`classposteriorpr` calculates marginal predicted posterior probabilities for each latent class. The posterior probabilities are a function of the latent class predictors and the fitted outcome densities.

`nose` suppresses calculation of the VCE and standard errors.

`post` causes `estat lcp`rob to behave like a Stata estimation (e-class) command. `estat lcp`rob posts the vector of estimated margins along with the estimated variance–covariance matrix to `e()`, so you can treat the estimated margins just as you would results from any other estimation command.

`display_options`: `vsquish`, `fvwrap(#)`, `fvwrapon(style)`, `cformat(%fmt)`, `pformat(%fmt)`, `sformat(%fmt)`, and `nolstretch`.

Remarks and examples

See [\[SEM\] example 50g](#), [\[SEM\] example 53g](#), and [\[SEM\] example 54g](#).

Stored results

`estat lcprob` stores the following in `r()`:

Scalars

`r(N)` number of observations

Macros

`r(title)` title in output
`r(classposteriorpr)` `classposteriorpr`

Matrices

`r(b)` estimates
`r(V)` variance–covariance matrix of the estimates
`r(table)` matrix containing the margins with their standard errors, test statistics, *p*-values, and confidence intervals

`estat lcprob` with the `post` option also stores the following in `e()`:

Scalars

`e(N)` number of observations

Macros

`e(title)` title in output
`e(classposteriorpr)` `classposteriorpr`
`e(properties)` `b V`

Matrices

`e(b)` estimates
`e(V)` variance–covariance matrix of the estimates

Also see

[\[SEM\] example 50g](#) — Latent class model

[\[SEM\] example 53g](#) — Finite mixture Poisson regression

[\[SEM\] example 54g](#) — Finite mixture Poisson regression, multiple responses

[\[SEM\] gsem postestimation](#) — Postestimation tools for `gsem`