

# Package: ordinalGOF (via r-universe)

May 25, 2026

**Title** Goodness-of-Fit Tests for Ordinal Regression Models

**Version** 0.1.0

**Description** Provides goodness-of-fit tests for ordinal regression models, including the Fagerland-Hosmer ordinal test, reproducing same output as Stata. Supports polr(), vglm(), and binary glm() models.

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**Encoding** UTF-8

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**Imports** dplyr, magrittr, MASS, VGAM

**Suggests** spelling

**Language** en-US

**URL** <https://github.com/Funto-Aladekomo/ordinalGOF>

**BugReports** <https://github.com/Funto-Aladekomo/ordinalGOF/issues>

**Repository** <https://funto-aladekomo.r-universe.dev>

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**Description**

Tests the goodness of fit for ordinal regression models, reproducing results equivalent to Stata's output. Supports models from `polr()`, `vglm()`, and `binary glm()`.

**Usage**

```
ordinalGOF(
  model,
  data,
  catvars = NULL,
  g = 10,
  test = c("hl", "pr.chi2", "pr.dev", "lipsitz"),
  ties = c("stata", "sorted", "equal"),
  show_table = FALSE
)
```

**Arguments**

<code>model</code>	A fitted model object. Supported classes: <code>polr</code> (MASS), <code>vglm</code> (VGAM), or <code>glm</code> (stats, binomial family).
<code>data</code>	A data frame used to fit the model.
<code>catvars</code>	Character vector of categorical variable names. Required only when <code>test = "pr.chi2"</code> or <code>test = "pr.dev"</code> .
<code>g</code>	Integer. Number of quantile groups (default: 10).
<code>test</code>	Character. The test to perform. One of "hl" (default), "lipsitz", "pr.chi2", or "pr.dev".
<code>ties</code>	Character. Tie-breaking method for grouping. One of "stata" (default), "sorted", or "equal". "stata" reproduces Stata's behavior.
<code>show_table</code>	Logical. If TRUE, prints the observed/expected frequency table. Default is FALSE.

**Value**

An object of class `htest` containing:

**statistic** The chi-squared test statistic.

**parameter** Degrees of freedom.

**p.value** The p-value.

**method** A character string naming the test used.

**Examples**

```
## Not run:  
library(MASS)  
m <- polr(drinkordinal ~ naltrexone + sex + basepda, data = dat,  
          method = "logistic", Hess = TRUE)  
ordinalGOF(m, data = dat, g = 10, test = "hl", ties = "stata")  
  
## End(Not run)
```

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