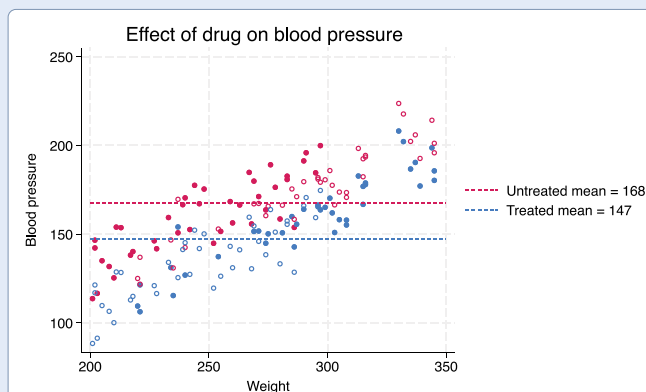


Causal inference

Propensity-score matching, IPW, and more

Stata's features for causal inference allow you to estimate experimental-type causal effects (treatment effects) from observational data. Are you interested in a continuous, binary, count, or survival outcome? Are you modeling the outcome process or treatment process? Stata can estimate your treatment effect. With such a comprehensive suite of estimators, you will find the one that's right for you.



Estimators

- Difference in differences (DID)
- Heterogeneous DID
- Inverse-probability weights (IPW)
- Propensity-score matching
- Covariate matching
- Regression adjustment
- Weighted regression
- Doubly robust methods
 - Augmented IPW (AIPW)
 - IPW with regression adjustment
 - AIPW with lasso selection of controls
- Causal mediation
- Conditional average treatment effects (CATEs) **New**

Statistics

- Average treatment effects (ATEs)
- ATEs on the treated (ATETs)
- Potential-outcome means (POMs)
- Direct effects, indirect effects
- Individualized ATEs (IATEs) **New**
- Group ATEs (GATEs) **New**
- Sorted group ATEs (GATEs) **New**

Outcomes

- Continuous—linear
- Binary—logistic, probit, heteroskedastic probit
- Count—Poisson
- Fractional
- Nonnegative, including exponential mean
- Survival—exponential, Weibull, gamma, lognormal

Treatments

- Binary—logistic, probit, heteroskedastic probit
- Multivalued—multinomial logistic

Diagnostics

- Overlap plots
- Covariate balance

Endogenous treatment effects

- Continuous, censored, binary, ordinal, and count outcomes
- ATEs, ATETs, and POMs
- Combine with endogenous covariates, sample selection, and panel data
- Test for endogeneity

