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## Estimating average causal effect using backdoor

Effect estimation with backdoor amounts to estimating a conditional probability distribution. Given an action A, an outcome Y and set of backdoor variables W, the causal effect is identified as,  $\sum_w E[Y|A,W=w]P(W=w).$ 

We can use any estimator that can output conditional expectation. DoWhy supports the following three types of estimators for average causal effect.

Regression-based methods

Distance-based matching

Propensity-based methods

Do-sampler

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