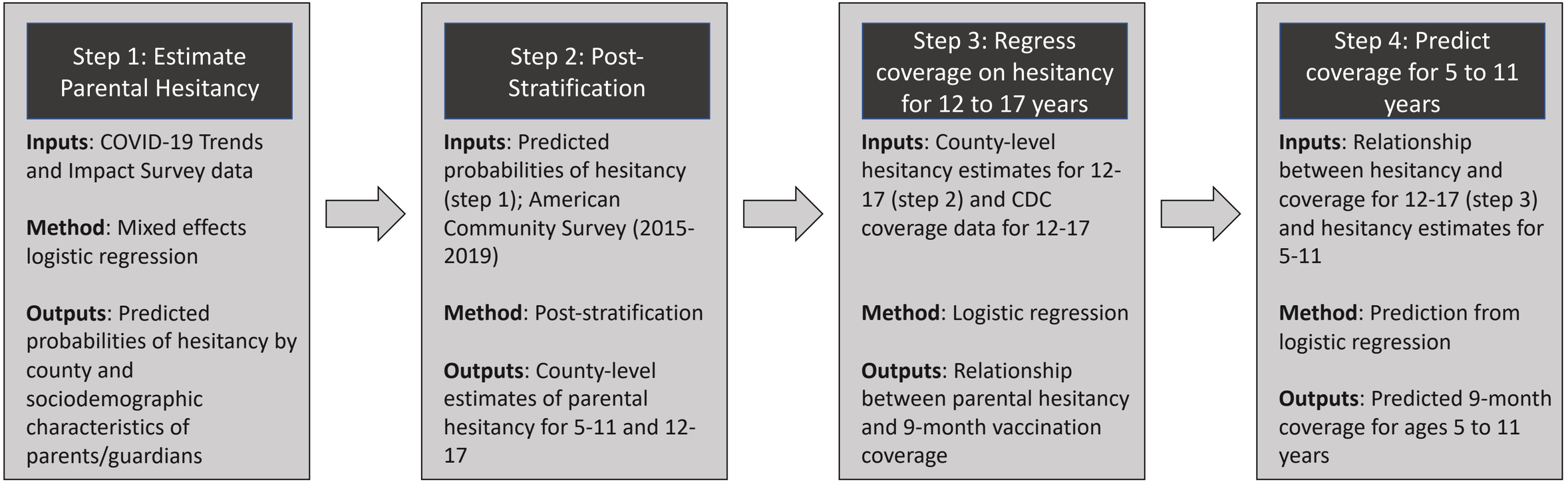
Step 1: Estimate Parental Hesitancy
Inputs: COVID-19 Trends and Impact Survey data
Method: Mixed effects logistic regression
Outputs: Predicted probabilities of hesitancy by county and sociodemographic characteristics of parents/guardians
Step 2: Post-Stratification
Inputs: Predicted probabilities of hesitancy (step 1); American Community Survey (2015-2019)
Method: Post-stratification
Outputs: County-level estimates of parental hesitancy for 5-11 and 12-17
Step 3: Regress coverage on hesitancy for 12 to 17 years
Inputs: County-level hesitancy estimates for 12-17 (step 2) and CDC coverage data for 12-17
Method: Logistic regression
Outputs: Relationship between parental hesitancy and 9-month vaccination coverage
Step 4: Predict coverage for 5 to 11 years
Inputs: Relationship between hesitancy and coverage for 12-17 (step 3) and hesitancy estimates for 5-11
Method: Prediction from logistic regression
Outputs: Predicted 9-month coverage for ages 5 to 11 years