

Vaccine rates in school-age children

CHL5222 Final Project (Group E)

Study description

Reporters at the Wall Street Journal collected data on **school-specific vaccination rates** — both overall and also for the measles, mumps, and rubella (MMR) vaccine — from **32 US states' health departments**. In total, the WSJ's dataset covers more than **46,000 schools, of which 42,000 have at least one vaccination rate available**. Most states provided data for the **2018–19 school year**; the rest did so **for 2017–18**. This data has been merged with comprehensive accounting of **public spending on children from the previous year**, **statespending2016**. It draws on the US Census Bureau's Annual Survey of State and Local Government Finances, as well as several federal and other noncensus sources, to capture state-by-state spending on education.

Data dictionary

Variable	Description	Comment
state	School's state	
year	Vaccination rates are for the 2017-18 school year for Colorado, Connecticut, Minnesota, Montana, New Jersey, New York, North Dakota, Pennsylvania, South Dakota, Utah and Washington. Rates for other states are 2018-19	
county	School's county	
name	School name	
type	Whether a school is public, private, charter	
mmr	School's Measles, Mumps, and Rubella (MMR) vaccination rate	Missing values indicated with -1
overall	School's overall vaccination rate	Missing values indicated with -1
schagepop2016	State's estimate of school aged population in 2016	
statespending2016	Public spending on elementary and secondary education by state in 2016, in \$1,000s	

Research question

Does how much each state spend on public education affect their state's school vaccination rates?