

## Cost sharing: (g) Coinsurance (25% rate or higher) versus no cost sharing, general patient population

Health Care: Health Care System Efficiency

Literature review updated November 2015.

As part of WSIPP's research approach to identifying evidence-based programs and policies, WSIPP determines "what works" (and what does not work) to improve outcomes using an approach called meta-analysis. For detail on our methods, see our [Technical Documentation](#). At this time, WSIPP has not yet calculated benefits and costs for this topic.

Program Description: Evaluations of health care policies and programs often measure two broad types of outcomes: (1) those that reflect the health status of people (e.g., disease incidence) and (2) those that reflect health care system costs and utilization. Cost and utilization measures may or may not be an indication of health status or well-being.

These estimates are from the RAND Health Insurance Experiment. Households were randomly assigned to different levels of cost sharing. The effect sizes reported below measure changes in medical costs, utilization, and health outcomes attributed to having a coinsurance rate of at least 25% versus free care.

### Meta-Analysis of Program Effects

Outcomes measured	No. of effect sizes	Treatment N	Adjusted effect size and standard error			Unadjusted effect size (random effects model)	
			ES	SE	Age	ES	p-value
Health care costs*	1	1137	-0.189	0.047	33	-0.189	0.001
Emergency department visits*	1	2296	-0.210	0.081	33	-0.210	0.010
Emergency department visits (higher-severity)*	1	5392	-0.230	0.059	33	-0.230	0.001
Emergency department visits (lower-severity)*	1	5392	-0.470	0.049	33	-0.470	0.001
Diastolic blood pressure	1	2339	0.079	0.036	33	0.079	0.027
Cholesterol	1	2262	-0.036	0.037	33	-0.036	0.327

\*The effect size for this outcome indicates percentage change, not a standardized mean difference effect size.

Meta-analysis is a statistical method to combine the results from separate studies on a program, policy, or topic in order to estimate its effect on an outcome. WSIPP systematically evaluates all credible evaluations we can locate on each topic. The outcomes measured are the types of program impacts that were measured in the research literature (for example, crime or educational attainment). Treatment N represents the total number of individuals or units in the treatment group across the included studies.

An effect size (ES) is a standard metric that summarizes the degree to which a program or policy affects a measured outcome. If the effect size is positive, the outcome increases. If the effect size is negative, the outcome decreases.

Adjusted effect sizes are used to calculate the benefits from our benefit cost model. WSIPP may adjust effect sizes based on methodological characteristics of the study. For example, we may adjust effect sizes when a study has a weak research design or when the program developer is involved in the research. The magnitude of these adjustments varies depending on the topic area.

WSIPP may also adjust the second ES measurement. Research shows the magnitude of some effect sizes decrease over time. For those effect sizes, we estimate outcome-based adjustments which we apply between the first time ES is estimated and the second time ES is estimated. We also report the unadjusted effect size to show the effect sizes before any adjustments have been made. More details about these adjustments can be found in our [Technical Documentation](#).

## Citations Used in the Meta-Analysis

- Brook, R.H., United States., Rand Corporation., & Rand Health Insurance Experiment. (1984). *The effect of coinsurance on the health of adults: Results from the Rand Health Insurance Experiment*. Santa Monica, Calif: Rand.
- Manning, W.G., Rand Corporation., & Rand Health Insurance Study. (1987). *Health insurance and the demand for medical care: Evidence from a randomized experiment*. Santa Monica, CA: Rand.
- O'Grady, K.F., Manning, W.G., Newhouse, J.P., & Brook, R.H. (1985). *The impact of cost sharing on emergency department use*. Santa Monica, CA: Rand Corporation.

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