Changes in outcomes of local policy, school, and community activities before and after the shutdown of the Minnesota Youth Tobacco Prevention Initiative

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Background: Minnesota's 1998 settlement with the tobacco industry funded the Minnesota Department of Health to lead the Minnesota Youth Tobacco Prevention Initiative (MYTPI).

MINNESOTA

From 2000 to 2003, the state dedicated \$16 to \$18 million per year to preventing smoking among 12 to 17 year olds.

Through statewide programs and local grants, the MYTPI aimed to implement the following activities at the local level:

- policy action,
- school-based prevention, and
- community mobilization.

In 2003, a budget shortfall led the legislature to drastically cut tobacco control funding to \$3.7 million yearly.

Research Questions:

- Did the MYTPI successfully achieve its desired short-term outcomes across the state?
- Which, if any, were sustained after the MYTPI shutdown?

Study Design: MACC is a population-based, Macco observational cohort.

Sample: The study sampled 60 of 129 Minnesota geopolitical units (GPUs) signifying local communities and 3,636 youth nested in these GPUs.

Data collection: Variables measured environmental influences on youth smoking, i.e. MYTPI's short-term outcomes. City and county measures were transformed to the GPU-level.

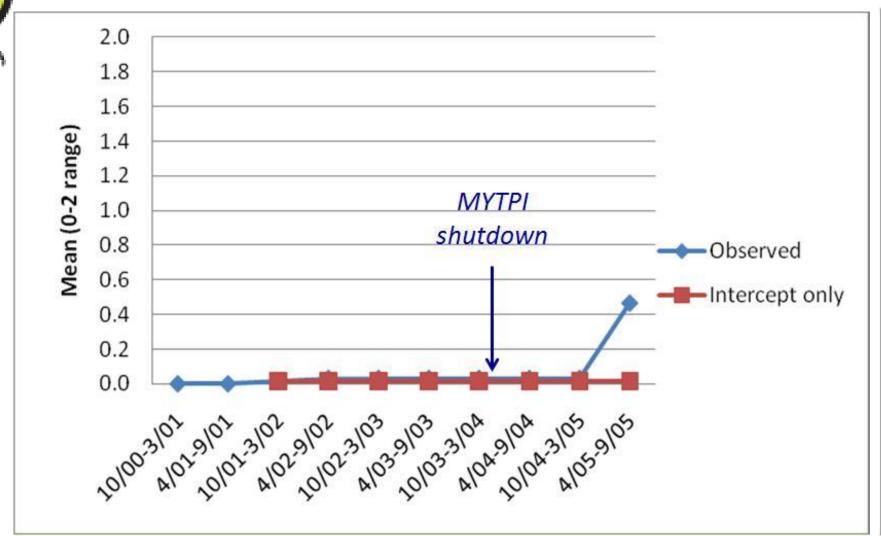
Data source	Frequency (2000-2005)	Level of data collection
Ordinance database	Annual	City/county
Enforcement survey	Annual	City/county
School survey	Annual	City/county
Youth survey	Every 6 months	Individual

Analysis: For each outcome, four latent curve models of the average growth trajectory from 2000 to 2005 were tested to select the best-fitting:

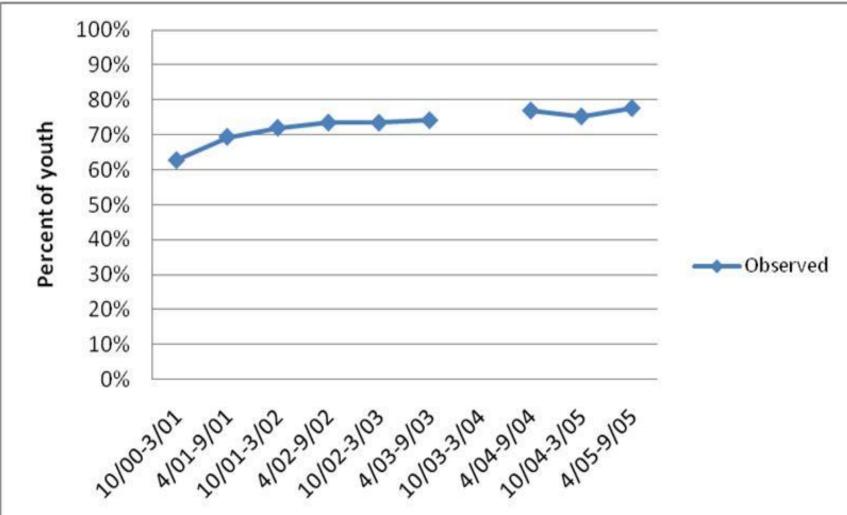
- 1) intercept-only, or no change,
- 2) linear, or uniform change,
- 3) quadratic, or curvilinear change, and
- 4) piecewise linear, or change at the 2003 MYTPI shutdown.

Results (selected):

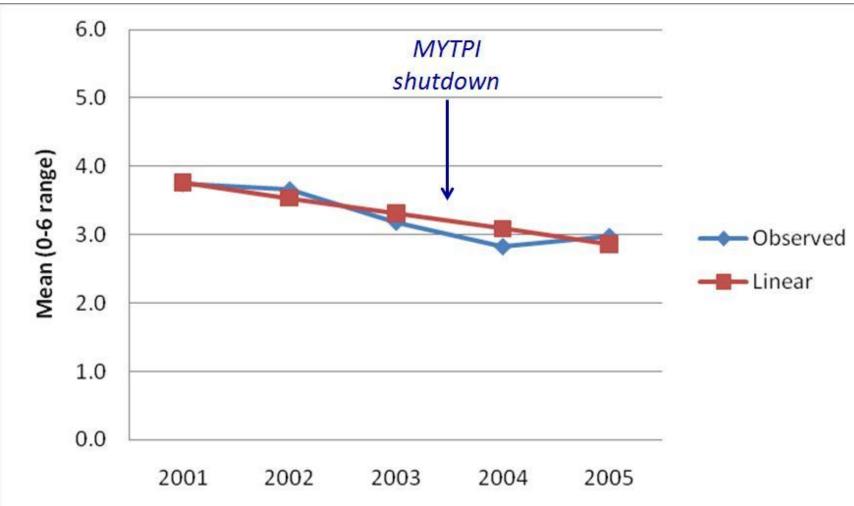
Policy action: Secondhand smoke indoor ordinance strength



Community mobilization: Home smoking bans



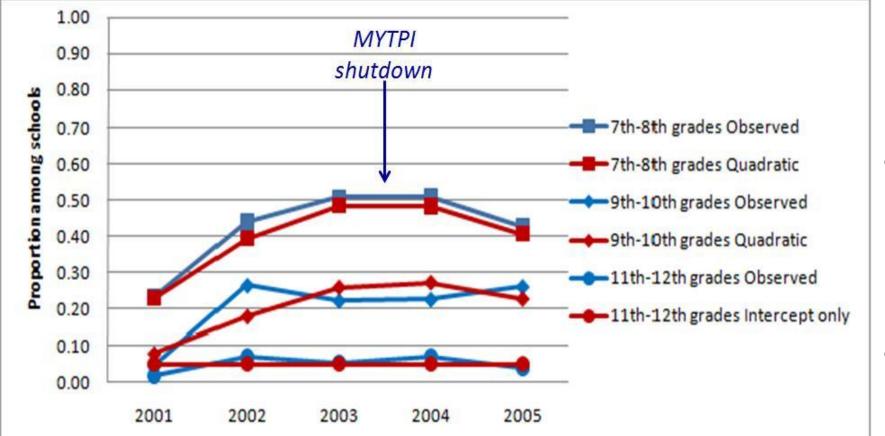
Policy action: Youth access law enforcement



Conclusion:

Local short-term outcome type	During MYTPI (2000-03)	After MYTPI shutdown (2004-05)
Policy Action	Very little (YA enforce)	Stable (YA enforce)
School-based prevention		Slowed
Community mobilization		Slowed / gone

School-based prevention: Proven curricula from trained teachers



Discussion:

- MYTPI successfully implemented less controversial educational and community-mobilization strategies.
- Such resource-driven outcomes were not sustained after the funding cut.
- MYTPI was less successful in realizing permanent policy change.