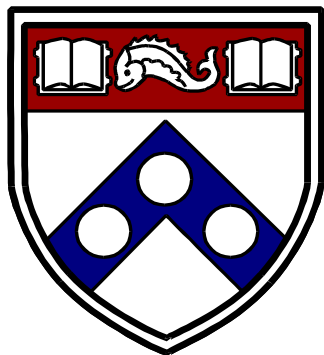


Some thoughts about value-based insurance design



David A. Asch, MD
Executive Director, Center for Health Care Innovation
Perelman School and Wharton School
University of Pennsylvania

With thanks to Kevin G. Volpp, MD, PhD

Disclosures

I am a partner at VAL Health, a behavioral economics consulting firm

My institution has received grants from NIH, CMS, and RWJF for work related to this presentation

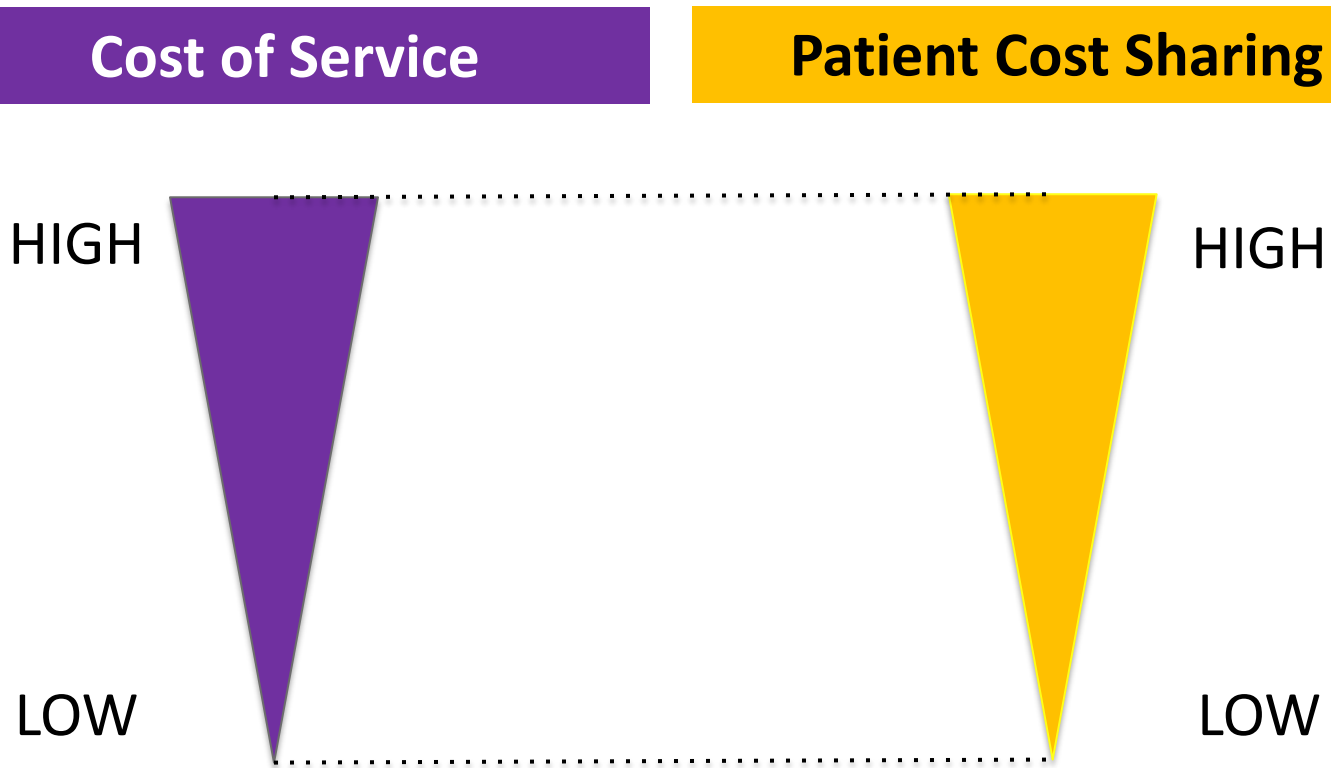


Other disclosures

- I am an above-average dancer
- I sometimes sing show tunes when I am in the shower

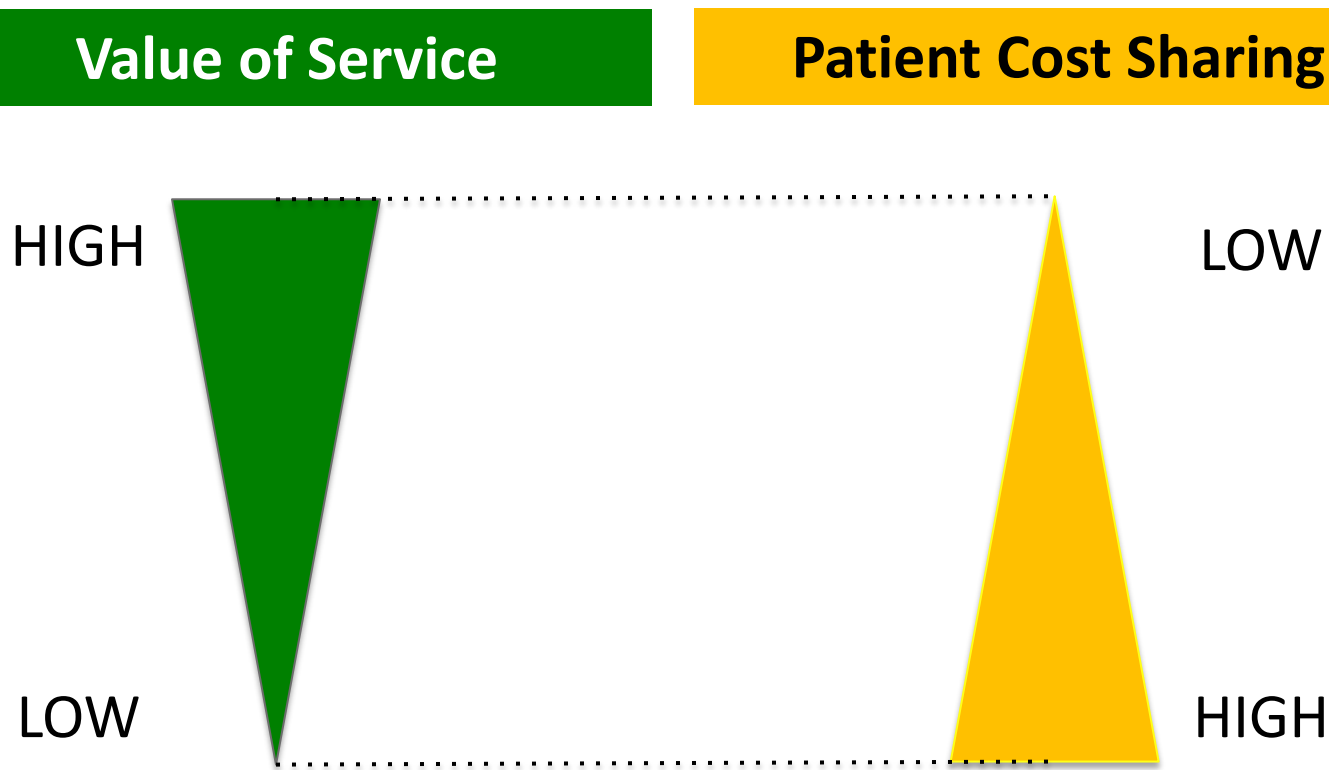
Typical cost sharing

When the cost is high, patient cost-sharing is high



Value-based insurance design

When the value is high, patient cost-sharing is low



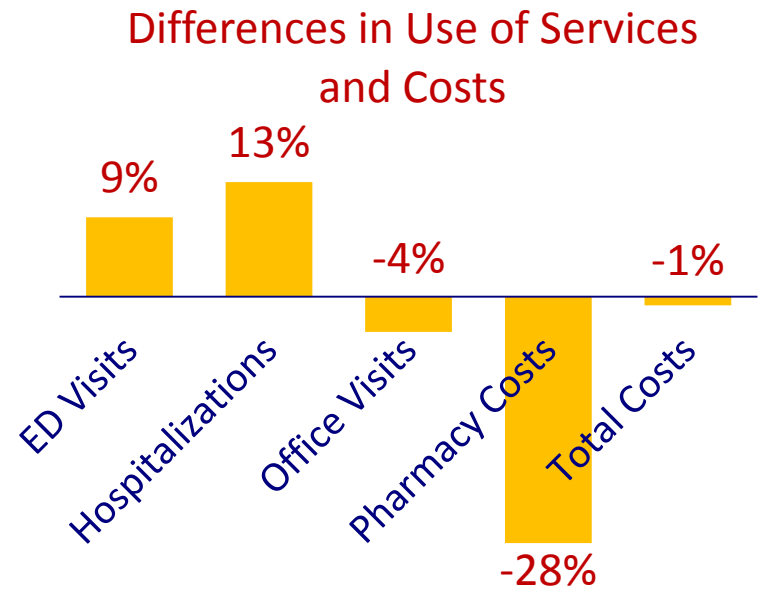
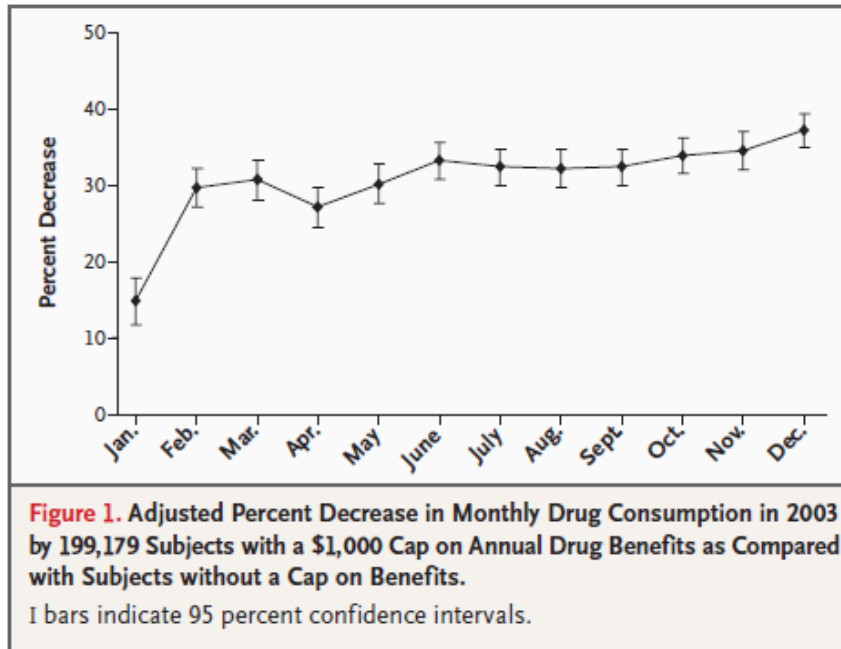
An extremely appealing idea

- Increase costs for low value services
- Decrease costs for high value services

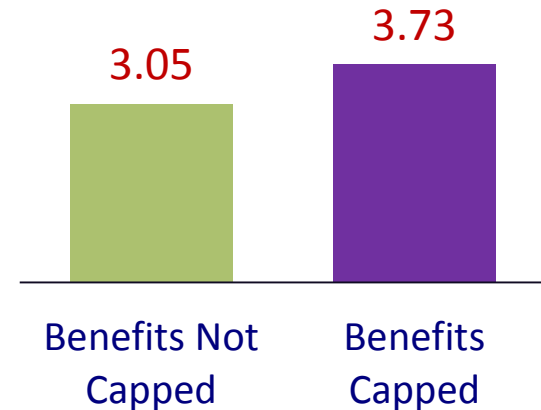
But only half of this formula actually works

Increased cost-sharing: ↓adherence, ↑mortality, no savings

Annual drug benefits cap of \$1,000 among some Medicare Advantage beneficiaries.



Mortality Per 100 Person Years

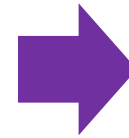


The mirror-image argument

- Copayment increases seem to decrease adherence and increase mortality
- So, maybe copayment decreases will increase adherence and decrease mortality

Copay reductions for patients with diabetes

- \$5 → \$0 generics
- \$25 → \$12.50 preferred drugs
- \$45 → 22.50 non-preferred drugs

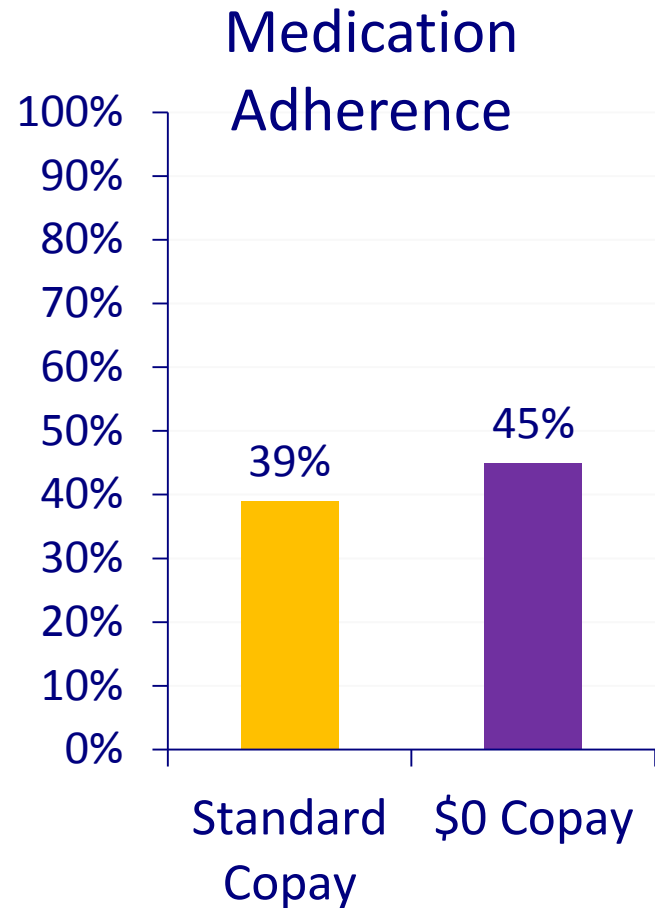


Minimal
increase in
adherence

Drug Class	Baseline MPR (%)	% Increase
ACEi/ARB	68.4	3.8
β-blocker	68.3	4.4
Diabetes drug	69.5	5.8
Statin	53.0	6.3
Steroids	31.6	5.9

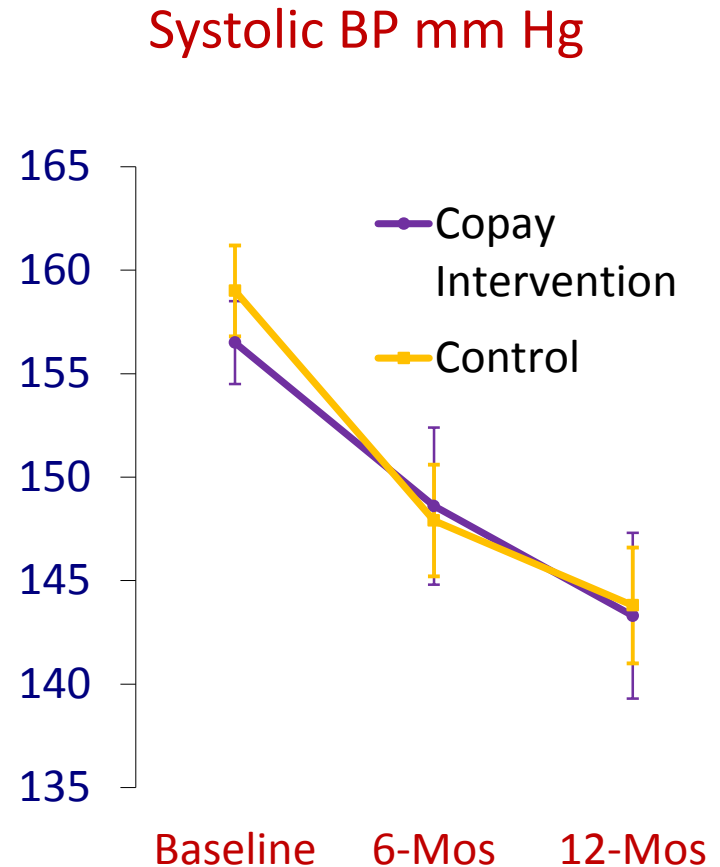
Making medications free doesn't increase adherence much—Even after a heart attack

- Government and private employees in several different Aetna health plans discharged after myocardial infarction. Randomized to:
 - A. Standard Co-payment**
 - B. \$0 Co-payments**
- Did not reduce rate of first major vascular event or revascularization

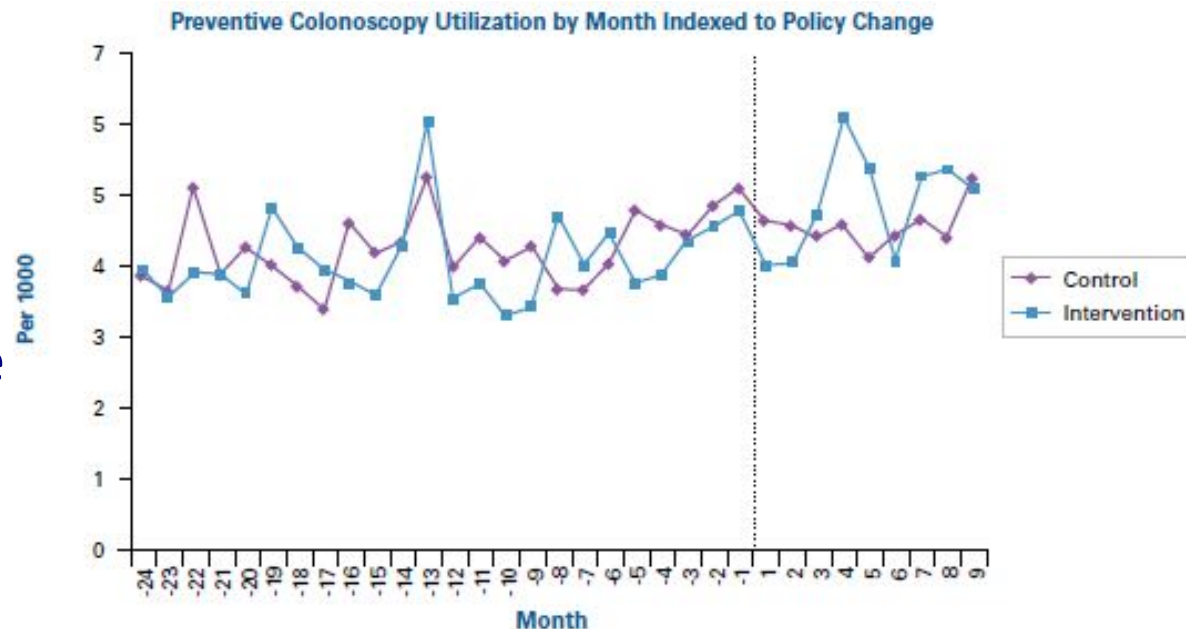
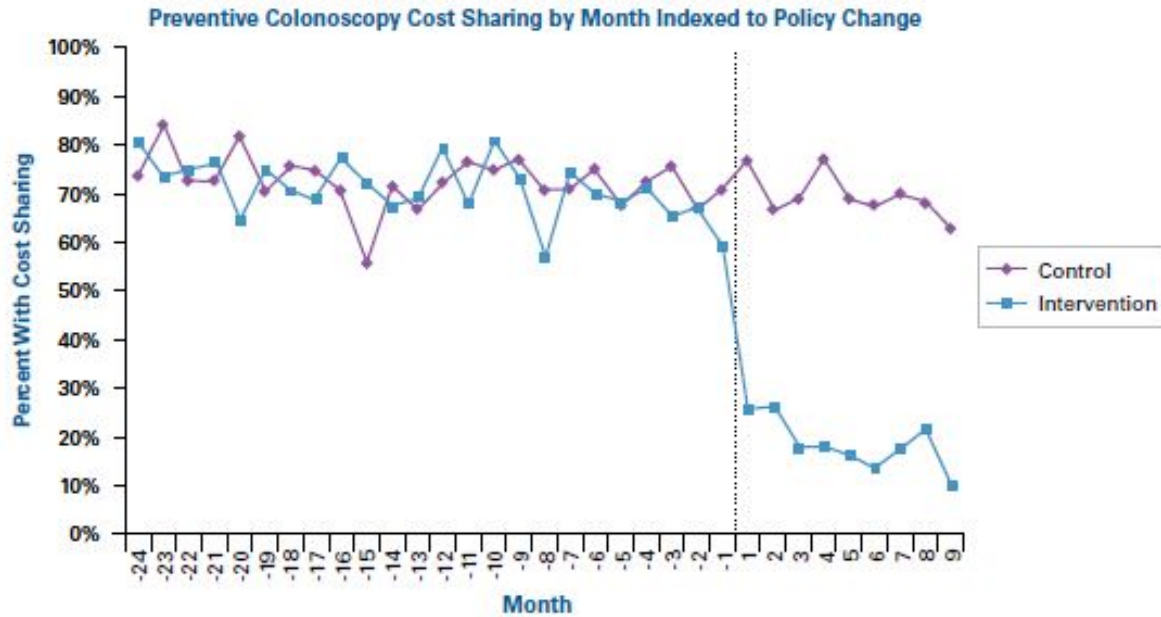


No effect of copay reductions on BP

- 2 RCTs among veterans with poorly controlled BP
- Average SBP at entry: 160
- 1. Copayments reduced from \$8 per month to \$0
- 2. Copayments reduced from \$0 per month to -\$8
- No significant effect on blood pressure or medication adherence in either study



- ACA eliminated cost sharing for colonoscopy except for grandfathered plans
- We would expect to see increases in colonoscopy in plans that had to change
- In this study of 63,246 men and women 50-64 we see no change



If increased copayments decrease use, why don't decreased copayments increase use?

- Copayment increases and decreases affect fundamentally different populations.
- Non-adherent patients may have a smaller change in quantity demand for given change in price
- Copayment reductions are like “the dog that didn't bark”
- Reductions may be processed as gains
- Change in amounts is typically small
- ★ Feedback is too infrequent for a behavior that is required at least daily

Value Based Insurance Design isn't a bad idea, but these results indicate it will provide less benefit than expected

Losses and gains are not mirror images

- Losses are more potent motivators than gains
- Increasing high value care is not the same as decreasing low value care driven in reverse

But, why should we create ANY barriers to high value care?

Contact

Academic work

asch@wharton.upenn.edu

Advisory services

dasch@valhealth.com

