Patient Choice, Price Transparency, and High-Value Care

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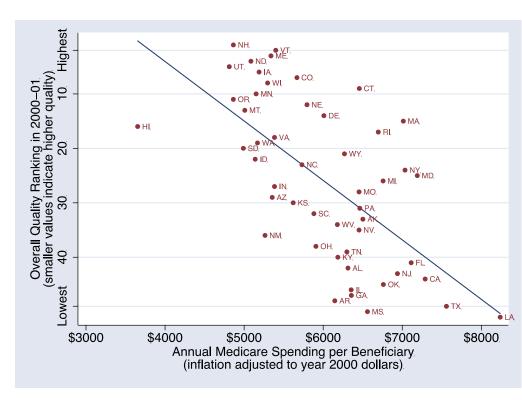
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Agenda

- Context for deploying transparency tools
- Evidence on patient responses to cost-sharing
 - Effects on utilization, value, and health
 - □ Interaction with payment policy
- Complementing transparency
 - Addressing behavioral factors

Moving Towards High-Value Care

- Ample evidence that health care resources not put to best use
- Insurance coverage alone doesn't guarantee high-quality care
- Care varies even when prices don't



Source: Baicker and Chandra, Health Affairs

Evidence of Underuse and Overuse

Underuse of High-Value Care						
Statins	Reduce mortality and heart attacks	Adherence < 70%				
Beta-blockers	Reduce mortality post heart attack 25%	Adherence < 50%				
Anti-diabetics	Decrease cardiovascular mortality (OR .74) (7)	Adherence < 65%				
Immunosuppresants for Kidney Transplant	Reduce risk of organ rejection seven-fold	Adherence < 70% (9)(10)				
Recommended Preventive Care	Effective immunizations, disease management, follow-up care post surgery	< 40% of diabetics receive semi-annual blood tests; Recommended immunization rates 60% for children				
Pre-natal care	Reduces infant mortality	< 50 % receive adequate or better care				
Overuse of Low-Value Care						
MRI for low back pain	Increase the number of surgeries with no resultant improvement in outcomes	16% of doctors report routine use of MRI				
PSA testing	No significant mortality change	49% of 50- to 79-year old men tested in past 2 years				
Prostate cancer surgery	No difference in overall survival	57% of patients receive radical prostatectomy or radiation as initial treatment				
Antibiotics for children's ear aches	At best modest improvement, but with common side-effects (rashes, diarhhea)	98% of visits result in antibiotic Rx				
		Source: Baicker, Mullainathan, and Schwartzstein, <i>Quarterly Journal of Economics</i>				

Patient Prices Matter . . .

Decades of evidence that patients respond to prices

- Demand slopes down!
- □ Transparency is necessary
- Prices patients face now hamper some efforts to improve value
 - Medicare FFS
 - □ ACOs

Alone Would Predict

Study	Price Change	Change in Use		
		High Value	Lower Value	
Chandra (2010)	\$7 increase in drug copay (from ~\$1 to ~\$8)	Elasticity of around.15 for acute care and chronic care Rx	Elasticity of around .15 for "lifestyle" Rx	
Goldman (2006)	\$10 increase in copay (from \$10 to \$20)	Compliance with cholesterol meds among high risk drops from 62% to 53%	Compliance with cholesterol meds among low risk drops from 52% to 46%; medium drops from 59% to 49%	
Selby (1996)	Introduction of \$25-\$35 ER copay	9.6% reduction in visits for emergency conditions	21% reduction in visits for non- emergency conditions	
Johnson (1997)	Increase from 50% coinsurance with \$25 max to 70% coinsurance with \$30 max	40% reduction in use of antiasthmatics; 61% reduction in thyroid hormones	40% reduction in non-opiate analgesics; 22% reduction in topical anti- inflammatories	
Lohr (1986)	Cost-sharing vs. none in RAND	21% reduction in use of highly effective care; 40% reduction in beta blockers, 44% reduction in insulin	26% reduction in less effective care; 6% reduction in hayfever treatment, 40% reduction in cold remedies, 31% reduction in antacids	
Tamblyn (2001)	Introduction of 25% coinsurance, \$100 deductible, \$200 max for Rx	9.1% reduction in essential drugs	15.1% reduction in non-essential drugs	

Importance of Behavioral Factors

- Traditional problem: "moral hazard"
 - Insurance provides valuable risk protection, but drives higher use
 - Affects insurers' plan design and individual choices
 - Cost-sharing should balance effects on use and financial protection
- "Behavioral hazard": Choice errors change that calculus
 - □ People may not respond "rationally" to prices
 - Copays should balance effects on health care use and health outcomes

Small Price Changes Can Matter a Lot

Study	Price Change	Use Change	Health Value
Chandra (2010)	\$7 ↑ in drug copay	Elasticities:15 to23 for essential drugs, asthma, depression meds	$6\% \uparrow$ hospitalization
Chernew (2008)	Drug copays \checkmark from \$5 to 0 for generics; from \$25 to \$12.50 for name brands	Elasticities:12 ACE inhibitors;11 beta blockers;14 diabetes drugs	Beta blockers post heart-attack ↓ mortality by 20-30%
Hsu (2006)	Imposition of \$1000 annual cap	Adherence to antihypertensives, statins, diabetes drugs Ψ 30%	 13% ↑ nonelective hospital use; 9% ↑ high cholesterol; 16% ↓ glycemic control
Goldman (2006)	\$10 ↑ in copay	10 percentage point ♥ in statin adherence	Statins \checkmark risk of major coronary event by 25%
Lohr (1986)	Cost-sharing vs. none in RAND	In use of insulin of 44%, beta blockers 40%, antidepressants 36%	Diabetes meds can reduce hospitalization risk by 7 ppt
Selby (1996)	Introduction of \$25-\$35 ER copay	9.6% \checkmark in visits for emergency conditions	Conditions including heart attack, appendicitis, respiratory failure, etc.
Landsman (2005)	Addition of third drug tier (moving top payment from \$10 or \$20 to \$35 or \$40)	Elasticities:16 for ACE inhibitors; - .10 for statins; -1.15 for antidepressants	70% \uparrow relapse of depression when meds discontinued

Source: Baicker, Mullainathan, and Schwartzstein, *Quarterly Journal of Economics*

So How Can Prices Help?

- Prices are a powerful tool but must be deployed with nuance
 - □ Transparency is necessary but far from sufficient
- How, when, and by whom info presented is key
 Trusted source
 - Quality vs. price
- "Nudges" can augment price and transparency levers

Using Nudges to Complement Transparency

- Info about costs vs. benefits
 - Misperception of risks
 - Salience of symptoms, benefits, cost
 - Delay of benefits vs. payments
- Cognitive overload and complexity
- Reference dependence
 - □ Framing as gain vs. loss
- Benchmarks
 - Social comparisons

Principles Apply More Broadly

- Many stakeholders all people!
 - Transparency and framing key at many junctures
- Patients/enrollees
 - □ Health care: utilization, compliance
 - □ Insurance: take-up and enrollment, choice of plans
 - Health behaviors: smoking, obesity
- Insurers and Payers
 - Plans offerings, how to price/subsidize, recruitment tools
- Providers
 - □ Intensity of treatment, compliance with best practices
 - Choice architecture matters a lot here
 - Transparency and framing