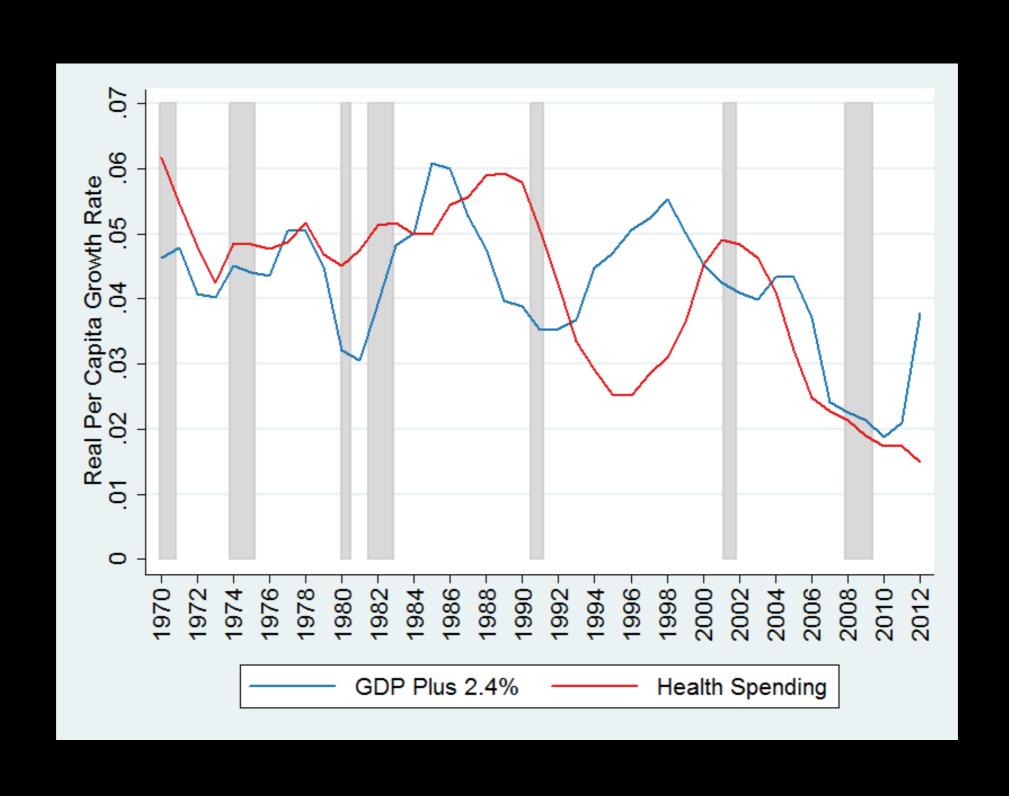
The Innovation Dilemma

Amitabh Chandra HARVARD UNIVERSITY



Healthcare Growth= GDP Growth + 2.4%





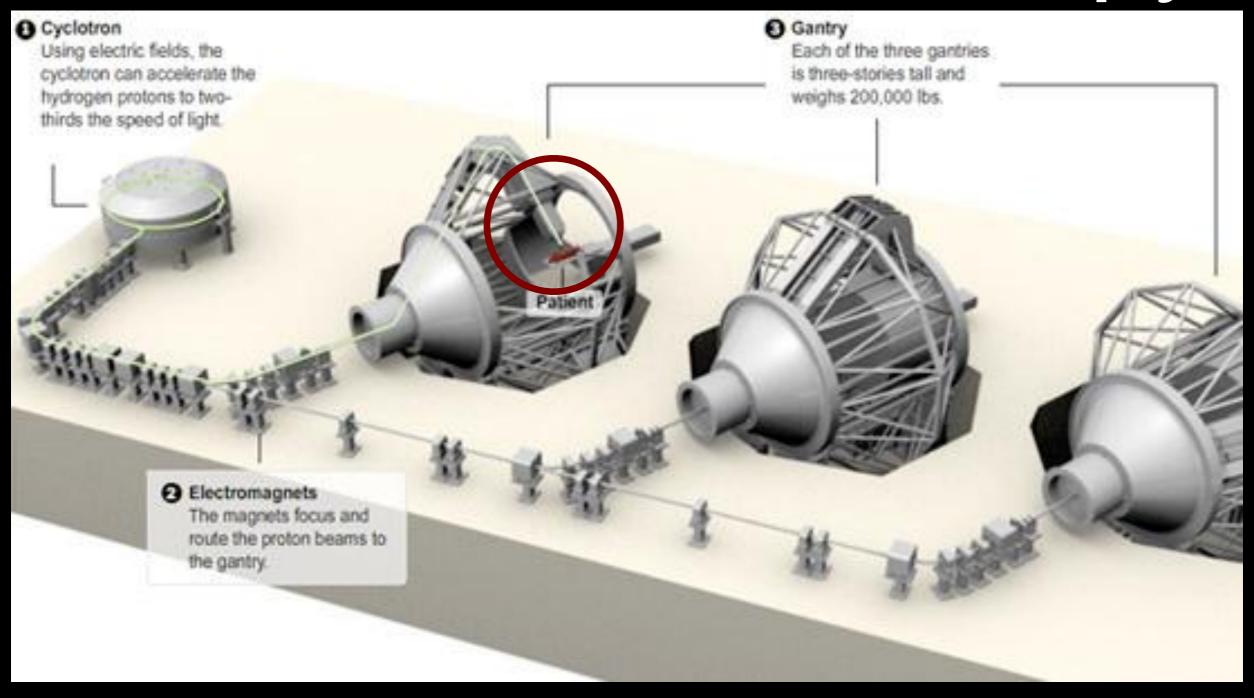


Innovation

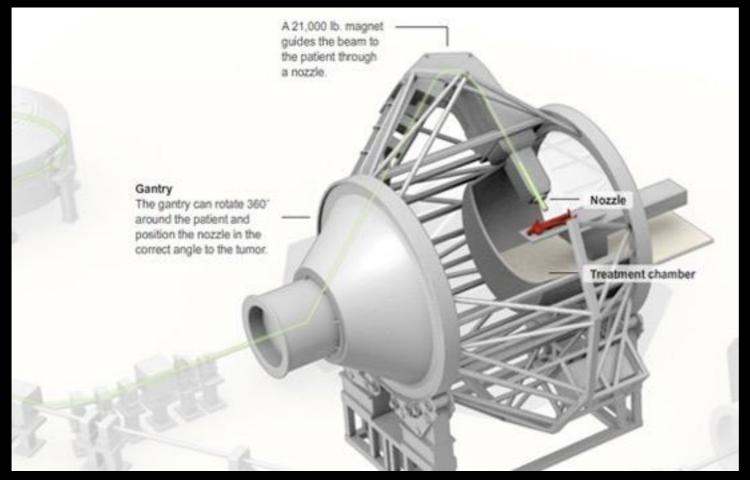


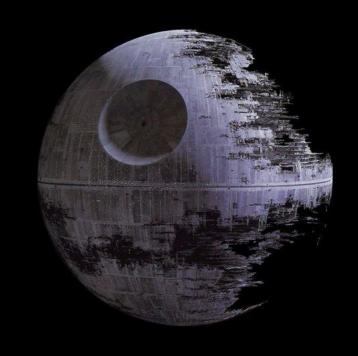


Proton Beam Therapy



PROTON BEAM THERAPY

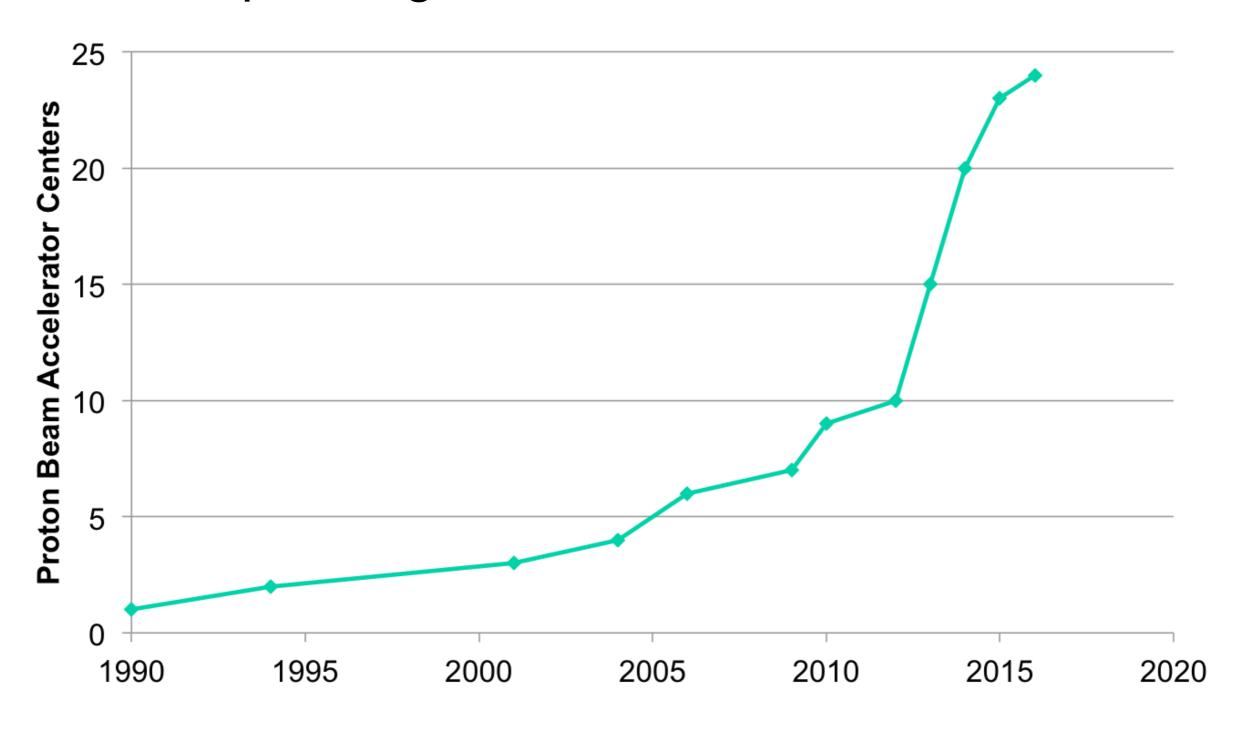




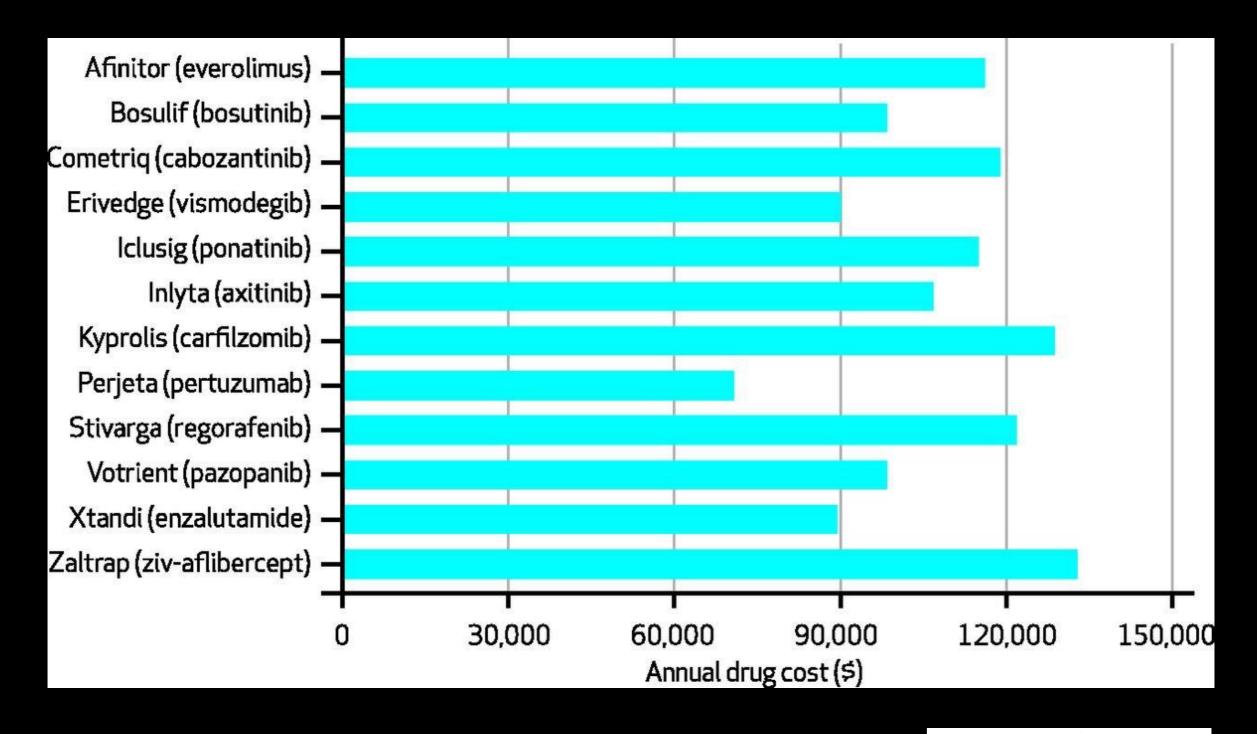
Cost: \$120 million
Benefit for prostate cancer: unknown

Medicare reimburses \$32,000 per treatment (= cost of insuring 8 people)

Proton Beam Accelerator Facilities Operating, Planned, or Under Construction



Source: Chandra, Holmes and Skinner (Brookings 2014)

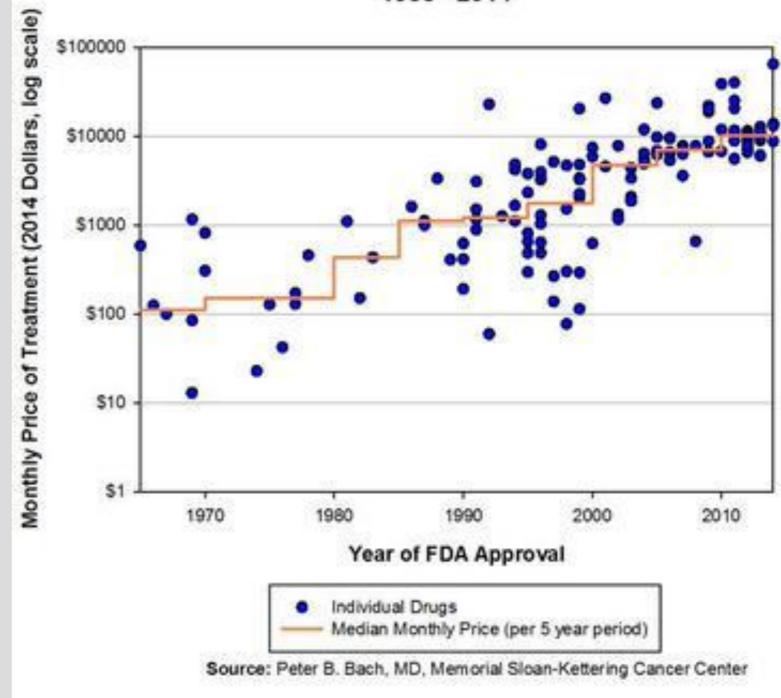


Health Affairs

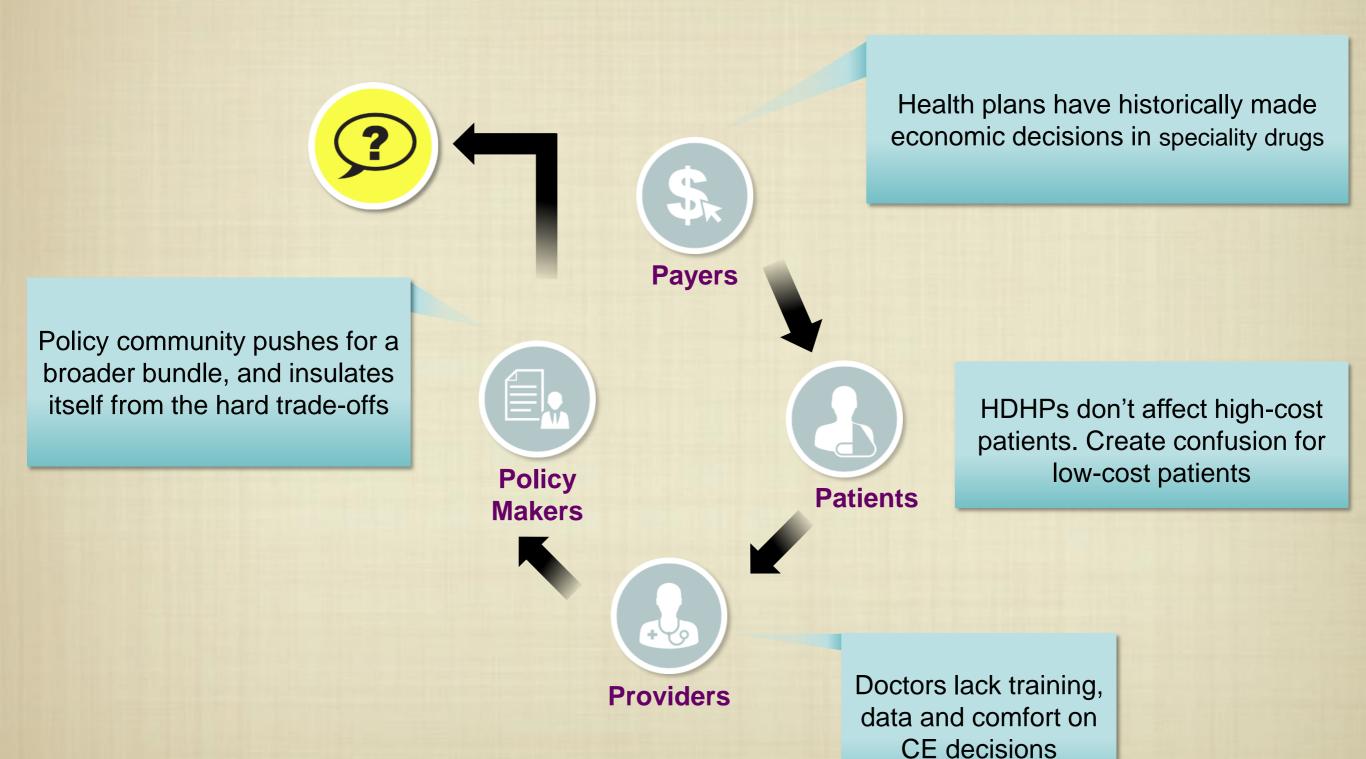
ACA will increase innovation and Prices

- Expanded Market-Size
- Medicaid Rebates
- reforms increase value of insurance
- Personalized Medicine increases Arrival of High Priced Rx
 - Targeted Therapies= higher Efficacy
 - Orphan Rx get 7 yrs of exclusivity
- 21st Century Cures Act will increase innovation
 - Easier for FDA to approve on surrogate-endpoints

Monthly and Median Costs of Cancer Drugs at the Time of FDA Approval 1965 - 2014



Unprepared for Difficult Choices



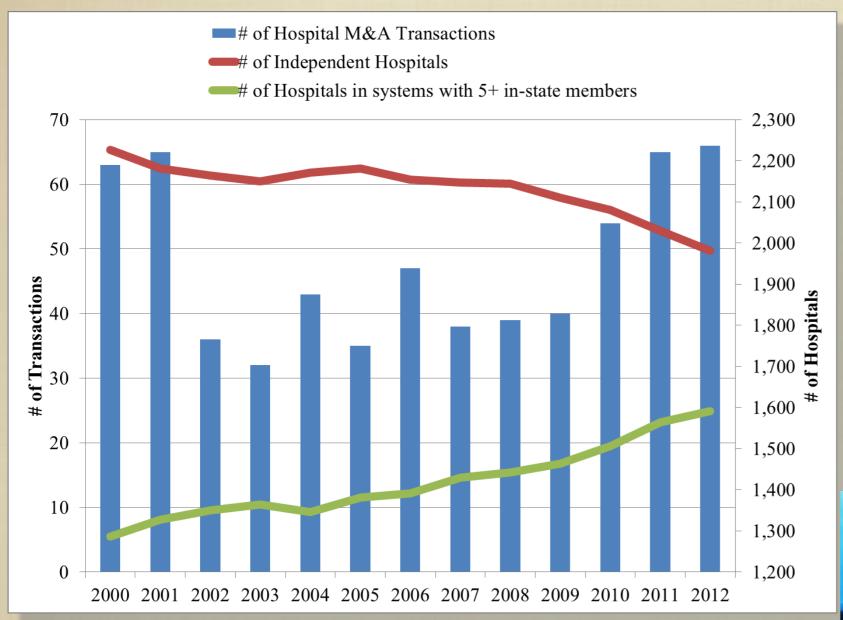
Takeaways

- Innovation responds to market size—future bodes more innovation
- States are unlikely to affect innovation in Rx or Tx
- But can lead on every other form of reform!

Opportunities

Competition
 in provider markets and in insurance markets

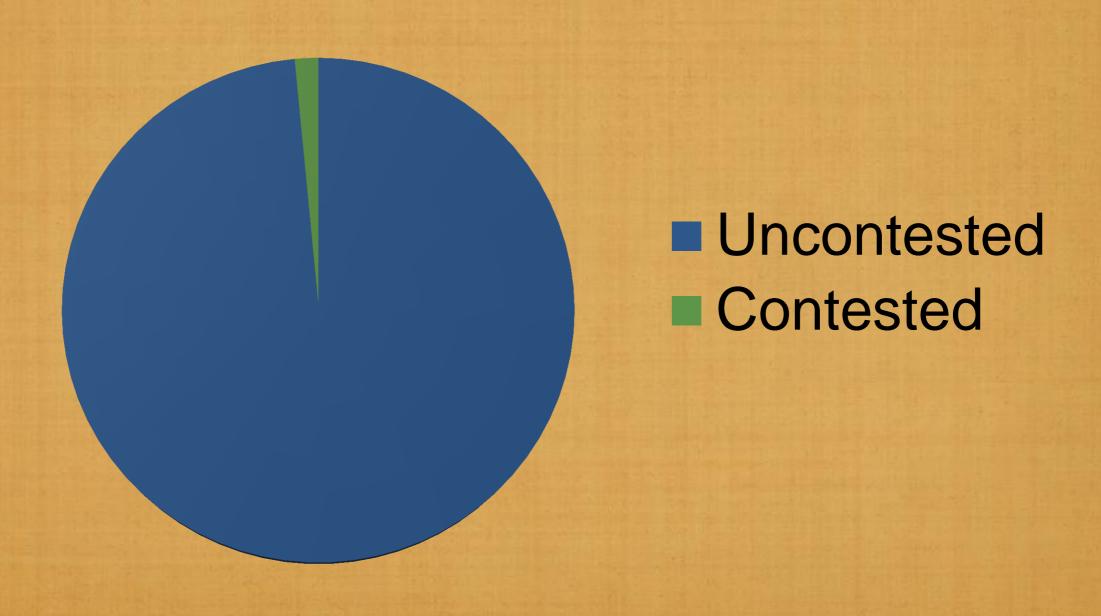
Hospital M&A Overtime





FTC Does not Contest most mergers

General Acute Care Hospital Mergers in 2013







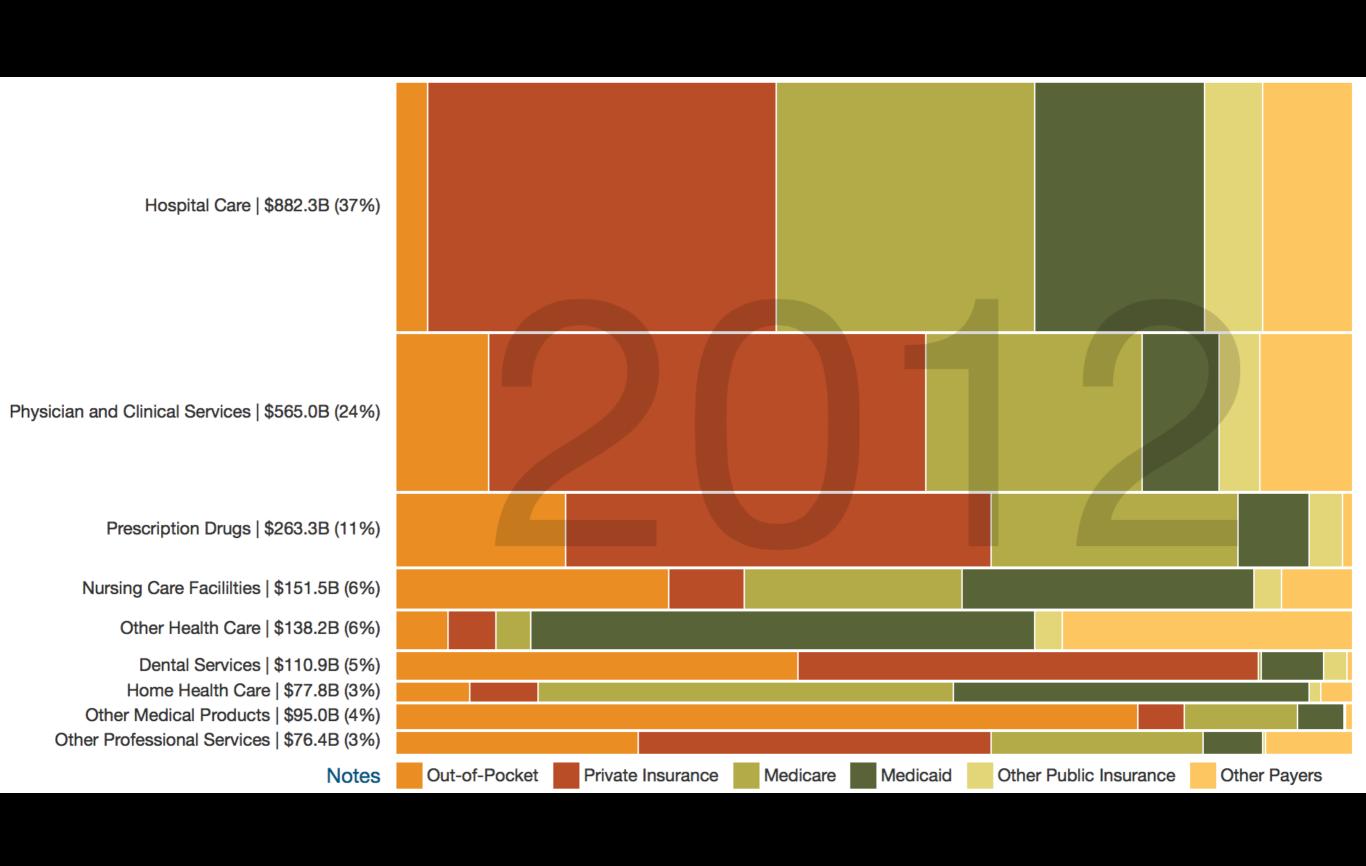
aetna

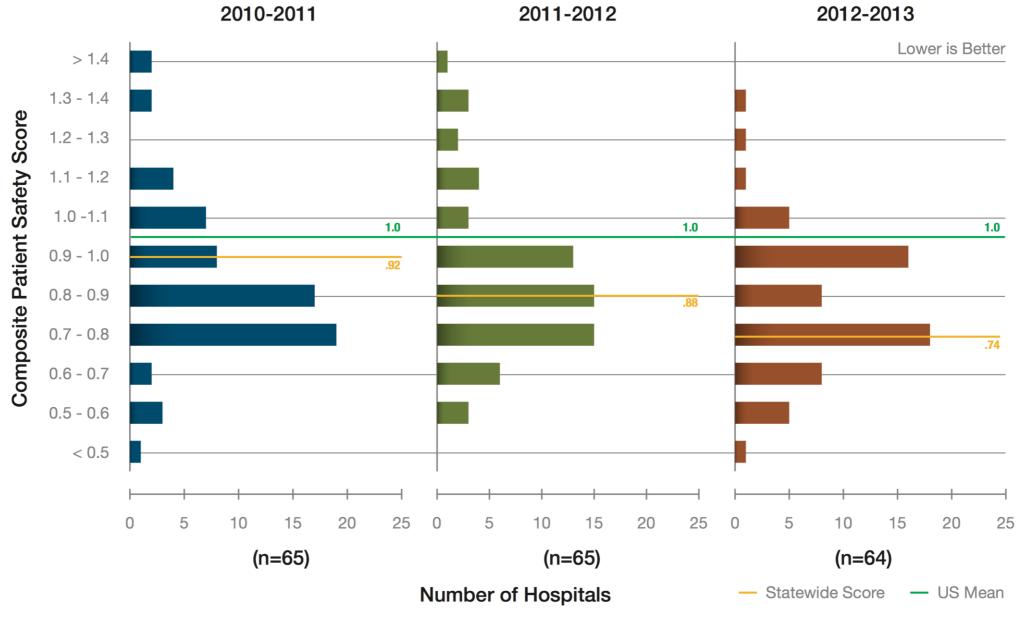
Humana.

Opportunities

- Competition

 in provider markets and in insurance markets.
- Because of CHIA, encourage MassHealth and GIC to move to full risk-contracts (including Rx) and bundled payments





Provider decision making: Implications of for oncology drugs

U UnitedHealthcare

Five oncology groups participated from 2009-12, all patients with breast, colon and lung cancer—1,024 patients in all

Identified 19 different "episodes" based on tumor site, stage, HER2 status, whether chemo is used, etc.

Each group selected a single chemo regimen for each adjuvant therapy episode "on the basis of their interpretation of the medical literature"

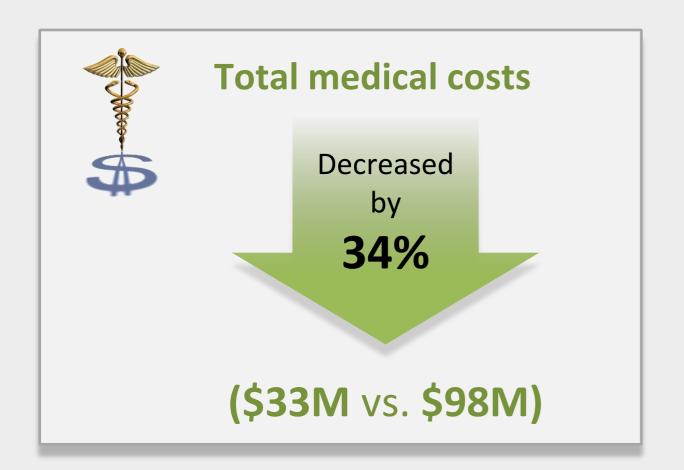
Practice receives an episode payment at initial visit to cover 4-12 months of treatment, depending on episode

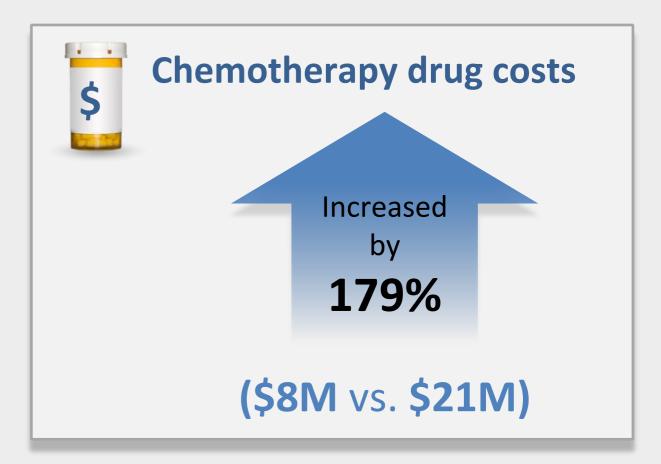
Episode payments covered chemo drugs (based on the practice-selected regimen) at acquisition cost

Eliminated incentive for providers to choose more expensive therapies simply because they are more profitable

Newcomer, L.N. *et al.* Changing physician incentives for affordable, quality cancer care: results of an episode payment model. *Journal of Oncology Practice* (2014)

Results of United experiment: Compared to FFS





Study not powered to determine which costs drove the decline in total medical costs, but some evidence suggests declines in hospitalizations and therapeutic radiology use

Sample size insufficient to evaluate survival or most other quality impacts

Newcomer, L.N. et al. Changing physician incentives for affordable, quality cancer care: results of an episode payment model. Journal of Oncology Practice (2014)

Opportunities

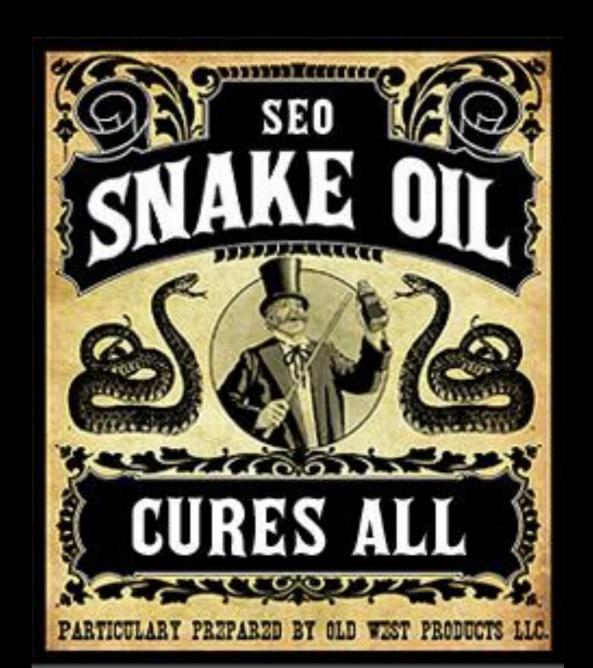
- Competition
 — in provider markets and in insurance markets.
- Because of CHIA, encourage MassHealth and GIC to move to full risk-contracts including Rx.
- Explore moving MassHealth to a PBM managed formulary (perhaps better than bulk-purchasing)

Opportunities

- Competition

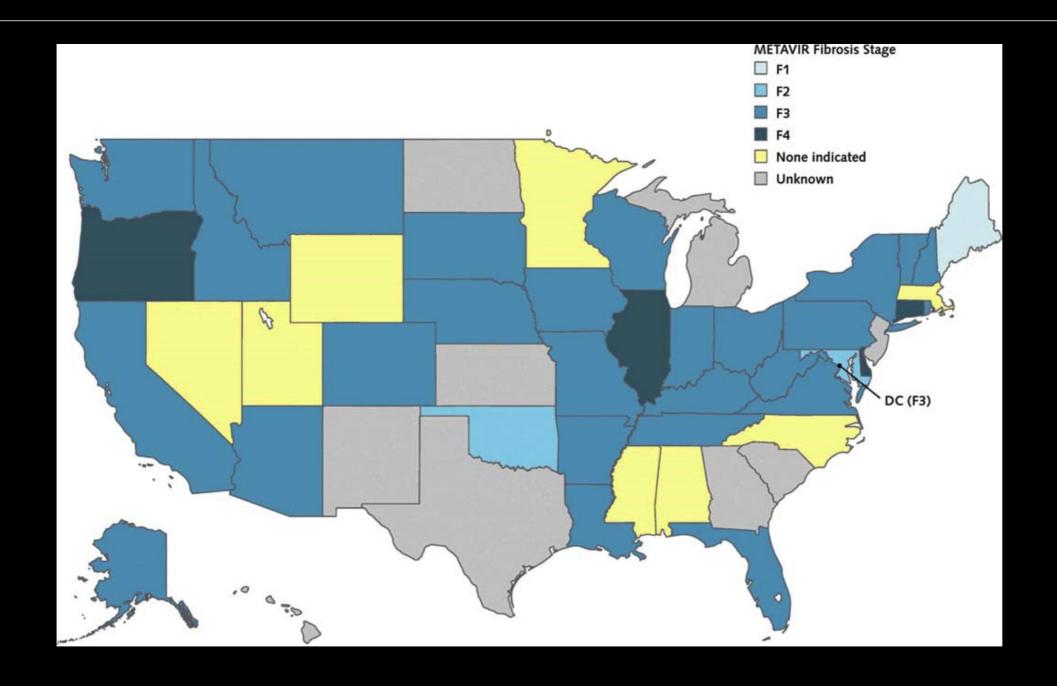
 in provider markets and in insurance markets.
- Because of CHIA, encourage MassHealth and GIC to move to full risk-contracts including Rx.
- Explore moving MassHealth to a PBM managed formulary (perhaps better than bulk-purchasing?)
- Examine novel pricing arrangements with Massachusetts providers— drug licenses and drugwarranties.

Cautions



Date of download: 10/4/2015

Restrictions for Medicaid Reimbursement of Sofosbuvir for the Treatment of Hepatitis C Virus Infection

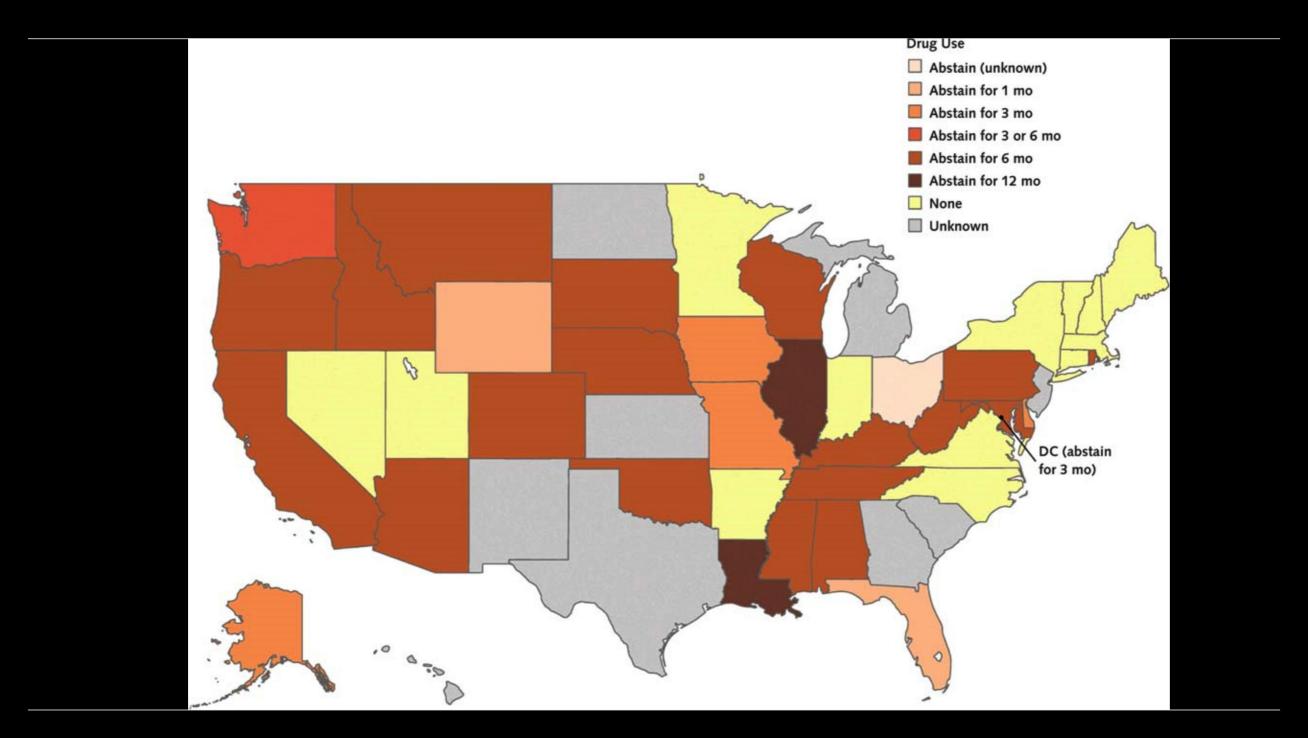


Annals of Internal Medicine

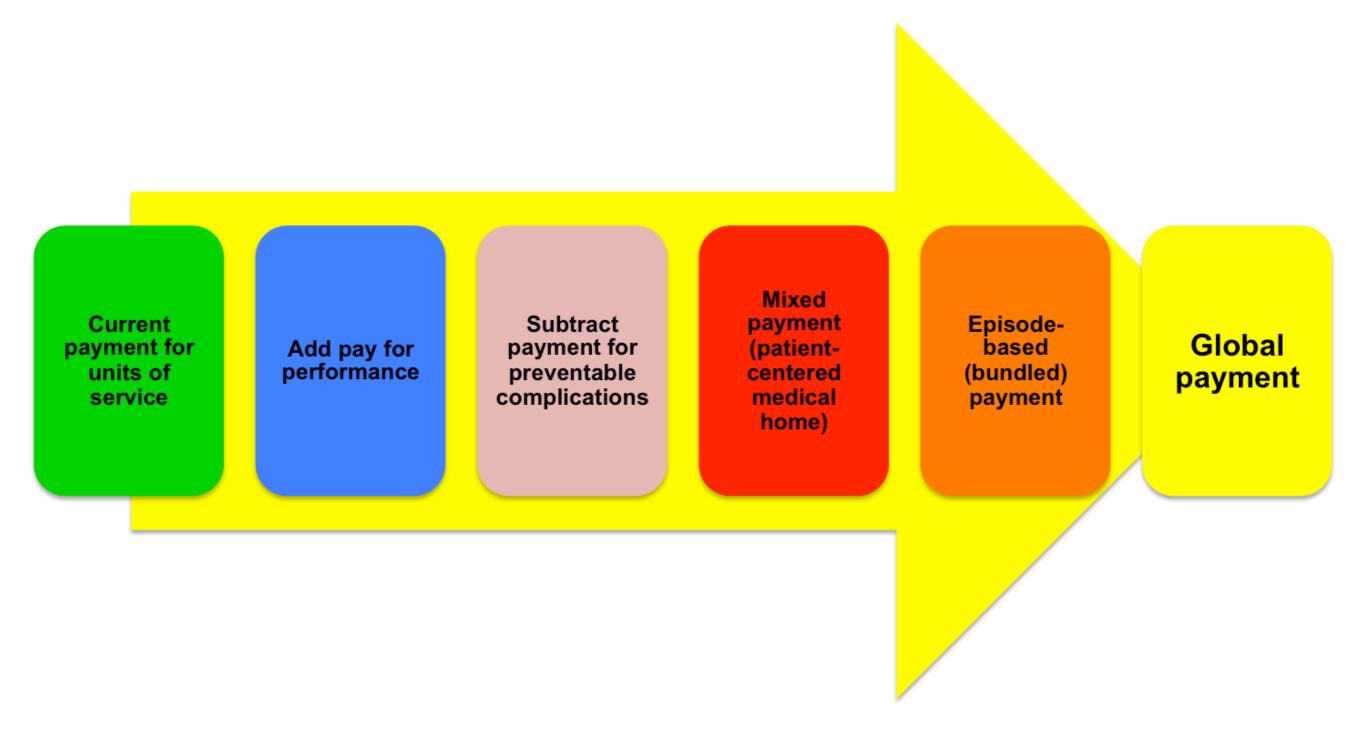
ESTABLISHED IN 1927 BY THE AMERICAN COLLEGE OF PHYSICIANS

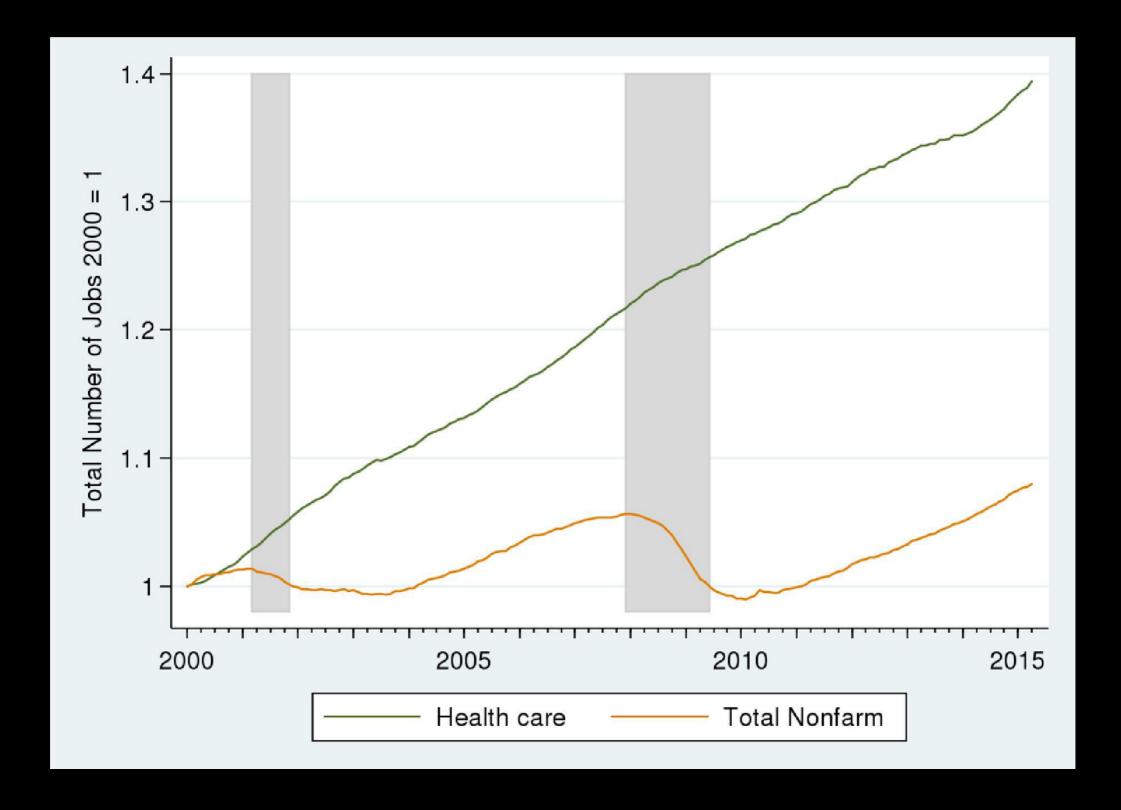
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Restrictions for Medicaid Reimbursement of Sofosbuvir for the Treatment of Hepatitis C Virus Infection



Spectrum of provider payment





Healthcare Growth= GDP Growth + 2.4%

