

Is Hepatitis C Elimination Cost Saving?

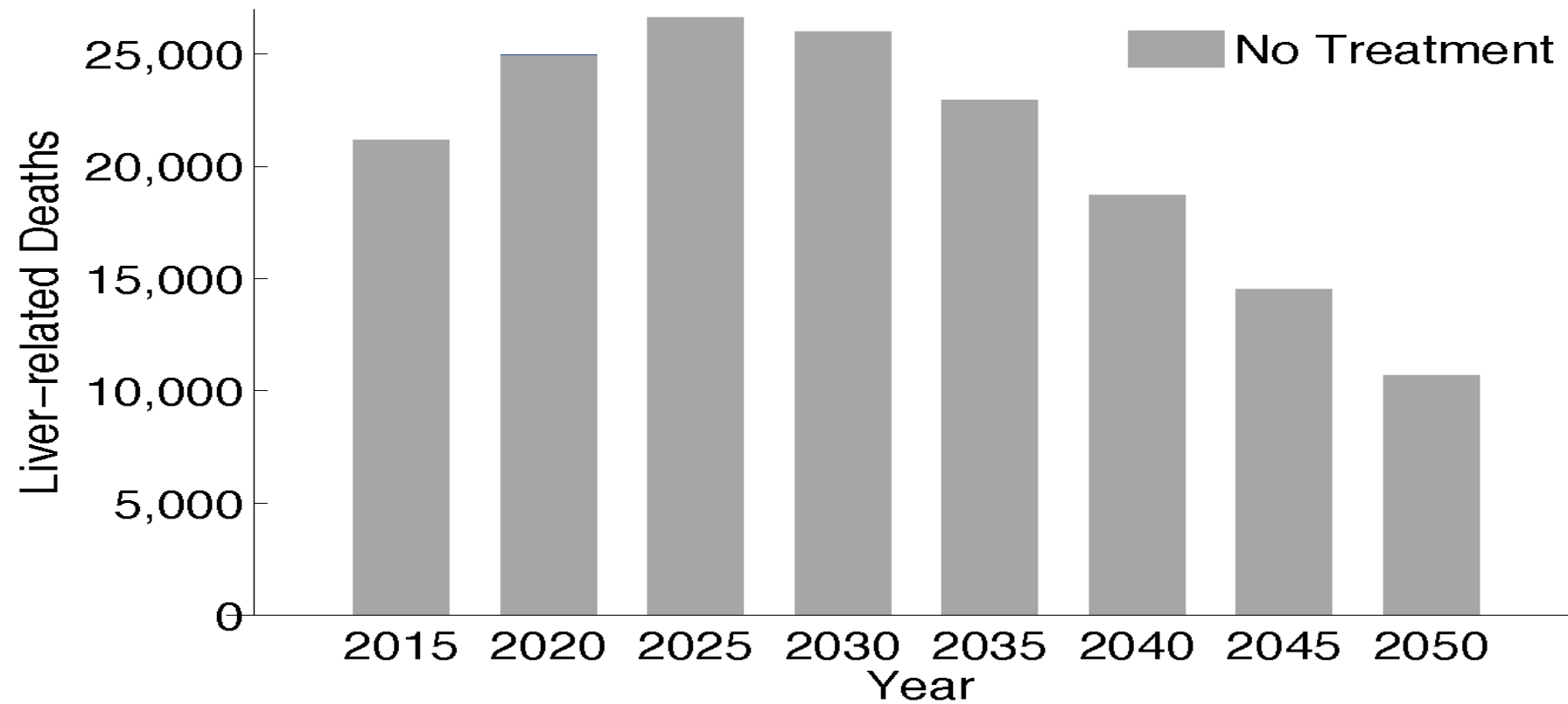
Jagpreet Chhatwal, PhD

Massachusetts General Hospital
Harvard Medical School
Boston, USA

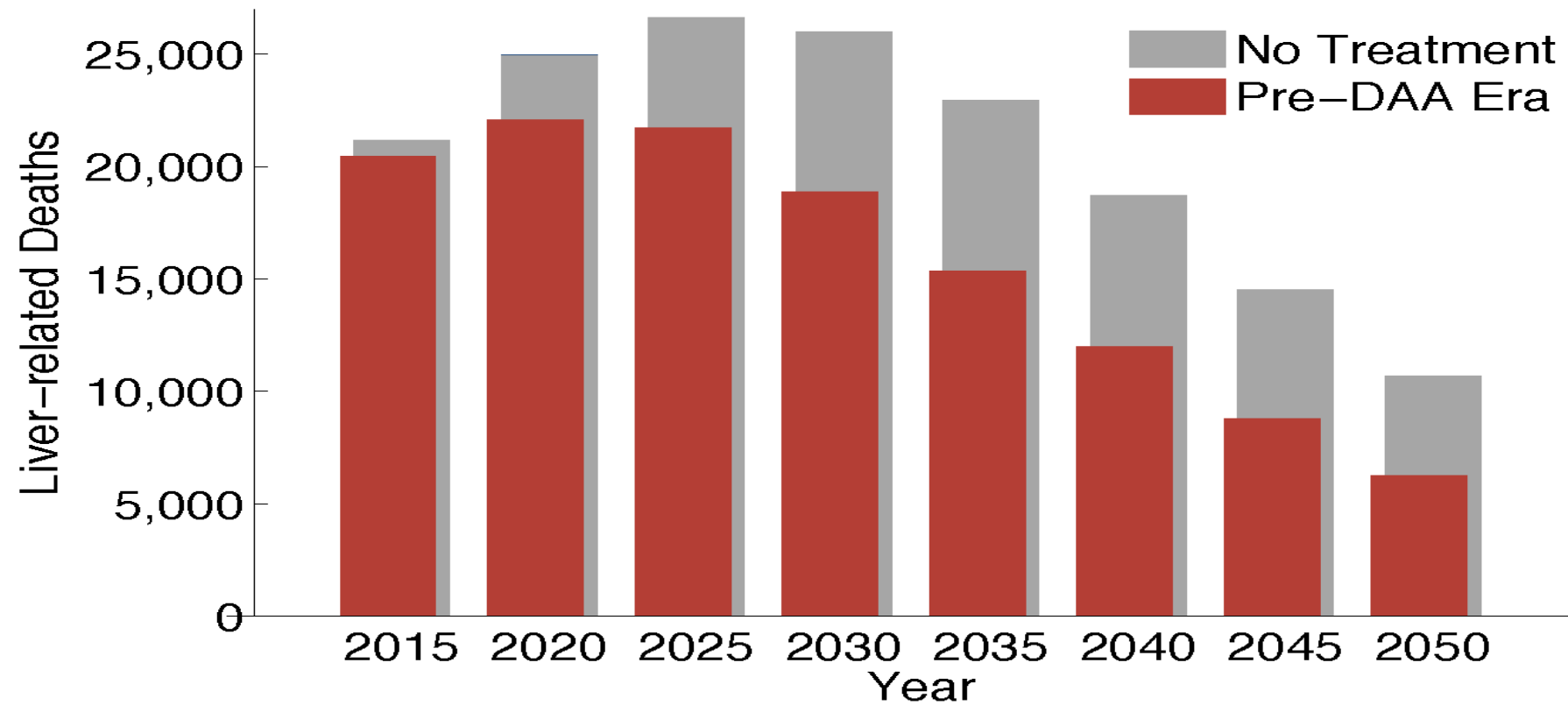
Relevant Questions of Interest...

- How the use of new therapies is expected to reduce HCV disease burden?
- Are new therapies cost-effective and/or cost-saving?
- What's the cost of eliminating HCV?

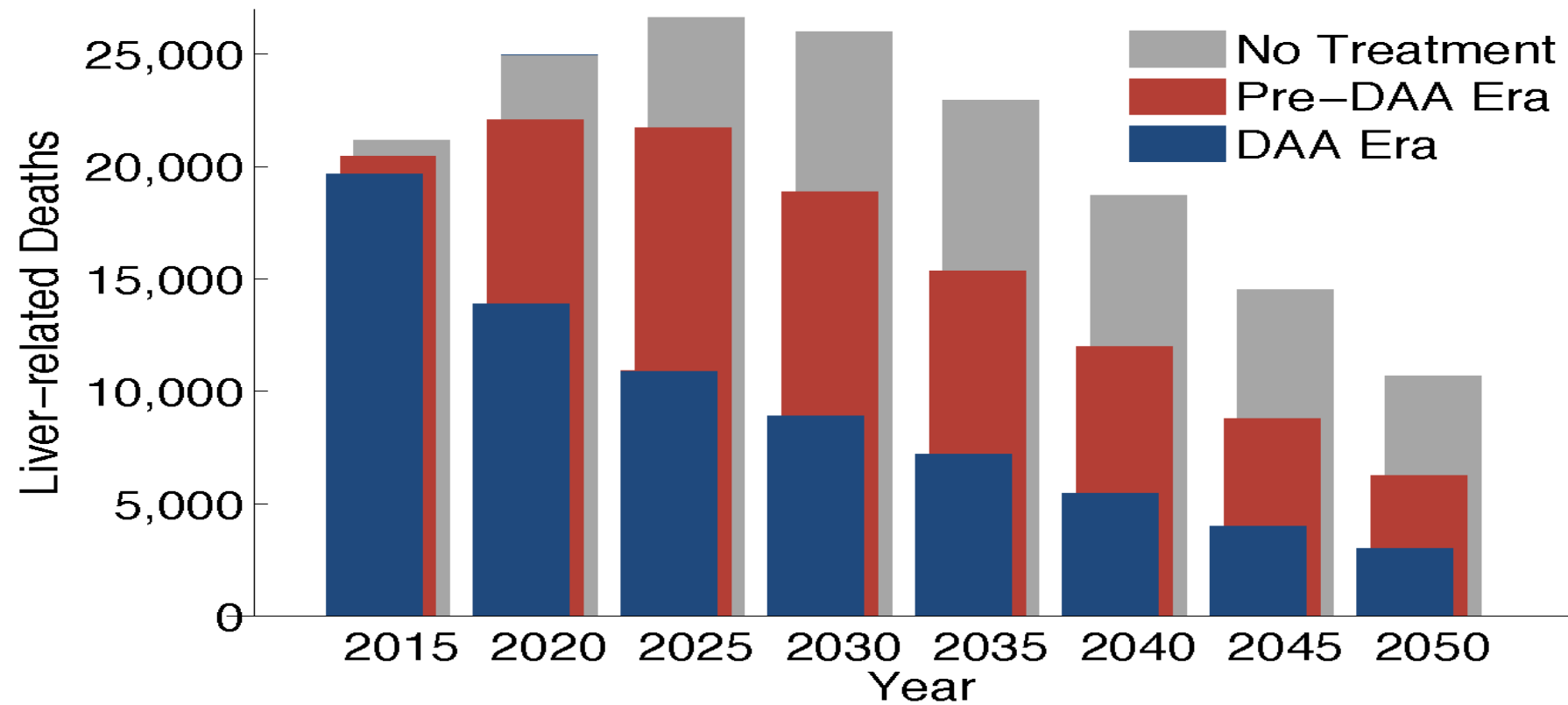
Liver-Related Deaths in the Era of New Antivirals: United States



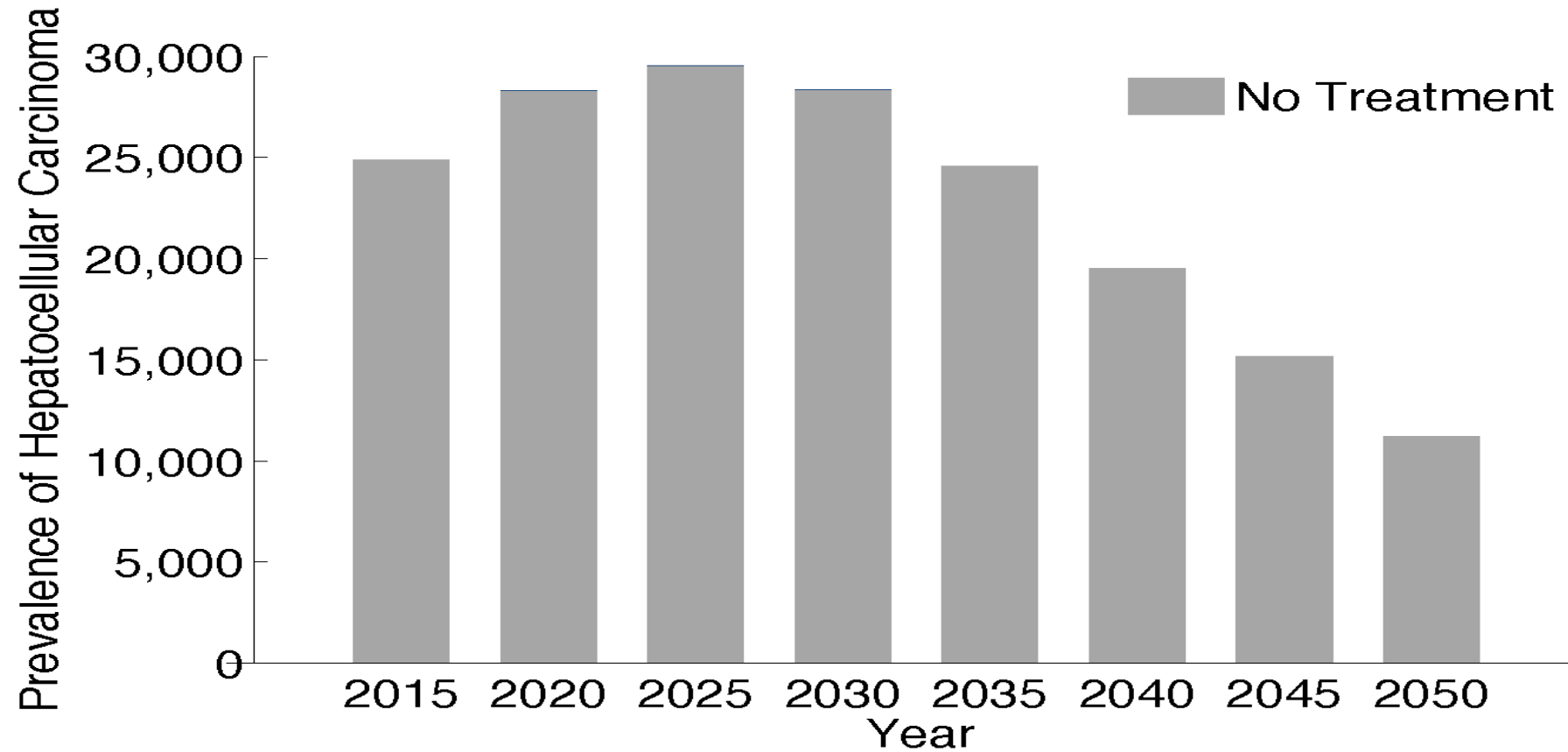
Liver-Related Deaths in the Era of New Antivirals: United States



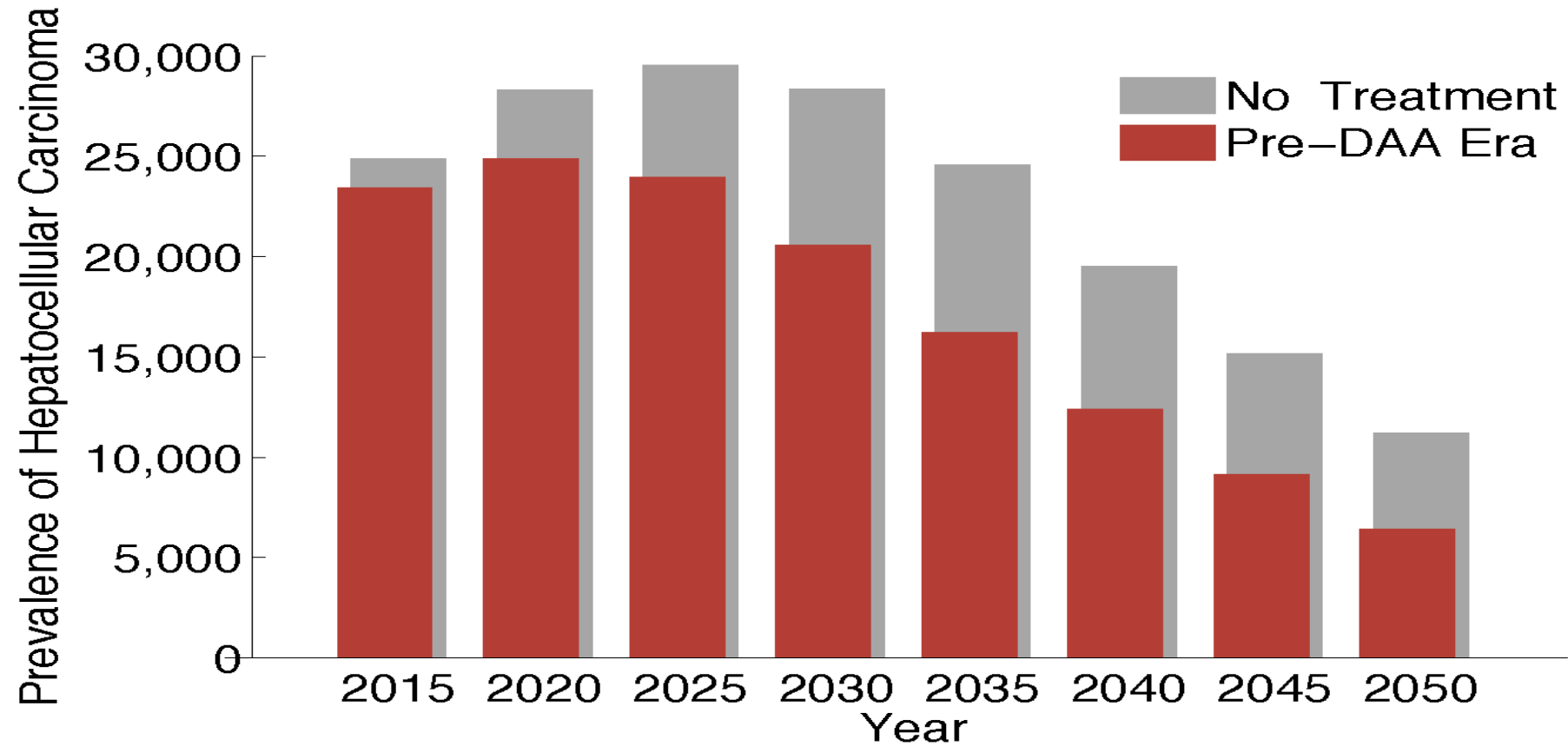
Liver-Related Deaths in the Era of New Antivirals: United States



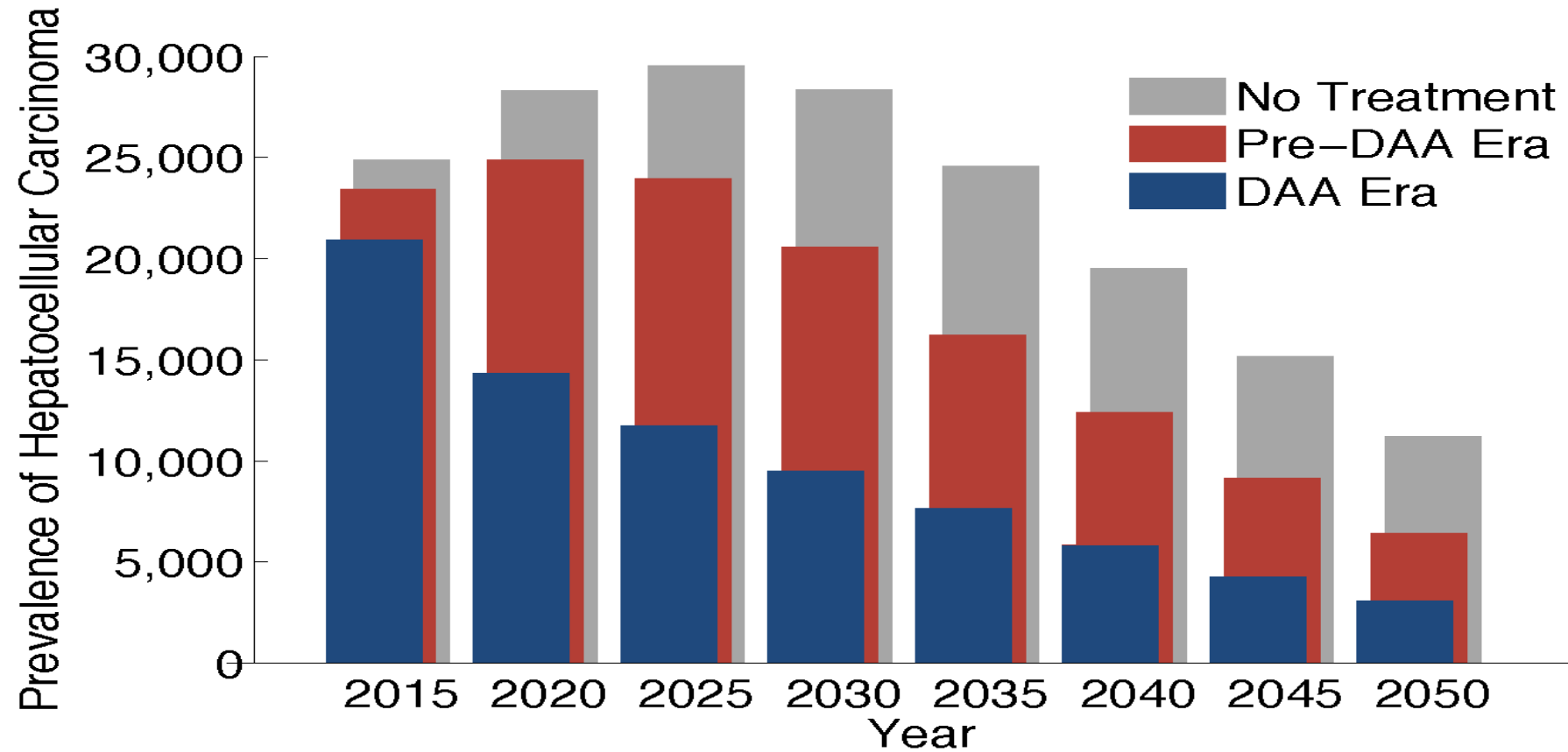
Liver Cancer in the Era of New Antivirals: United States



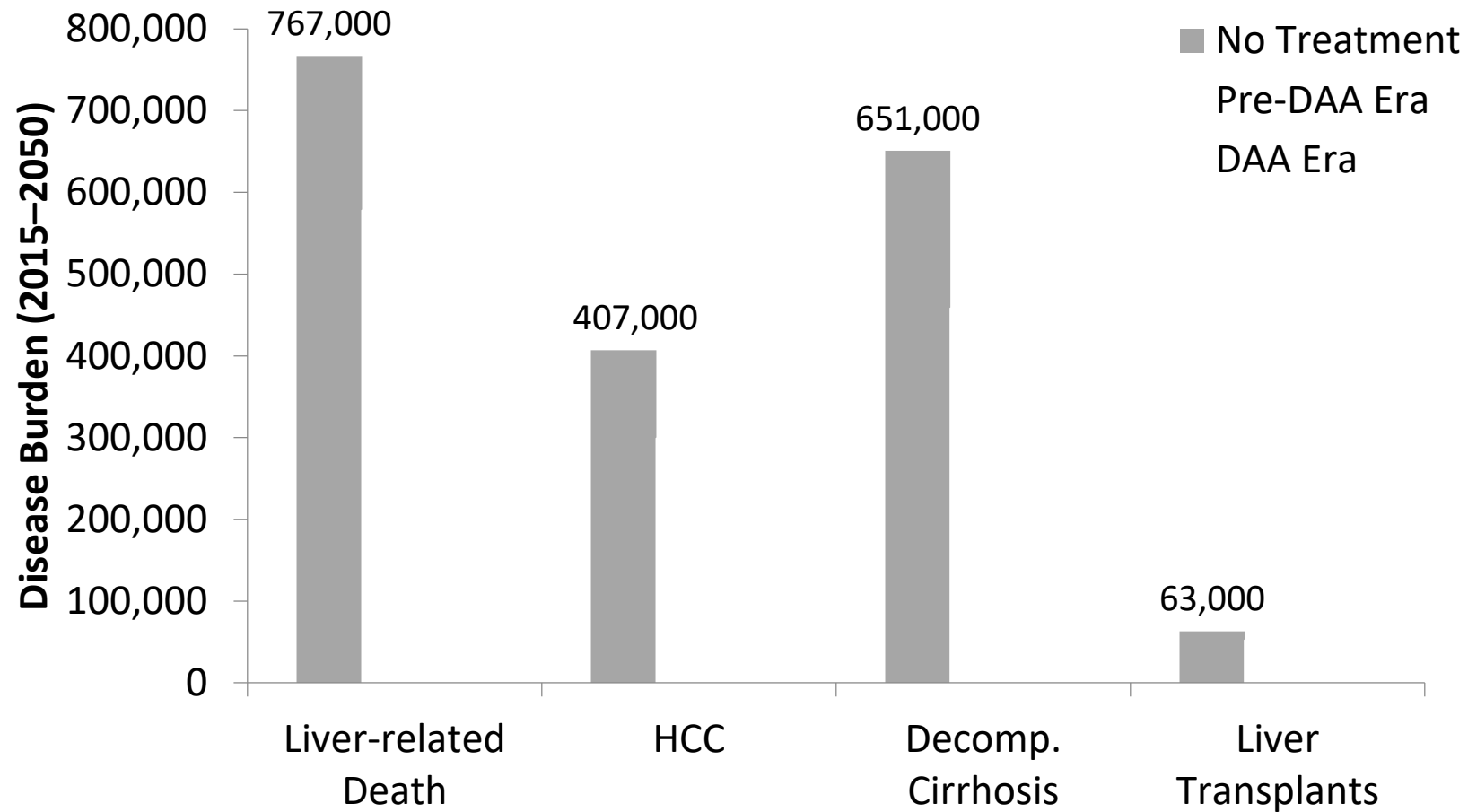
Liver Cancer in the Era of New Antivirals: United States



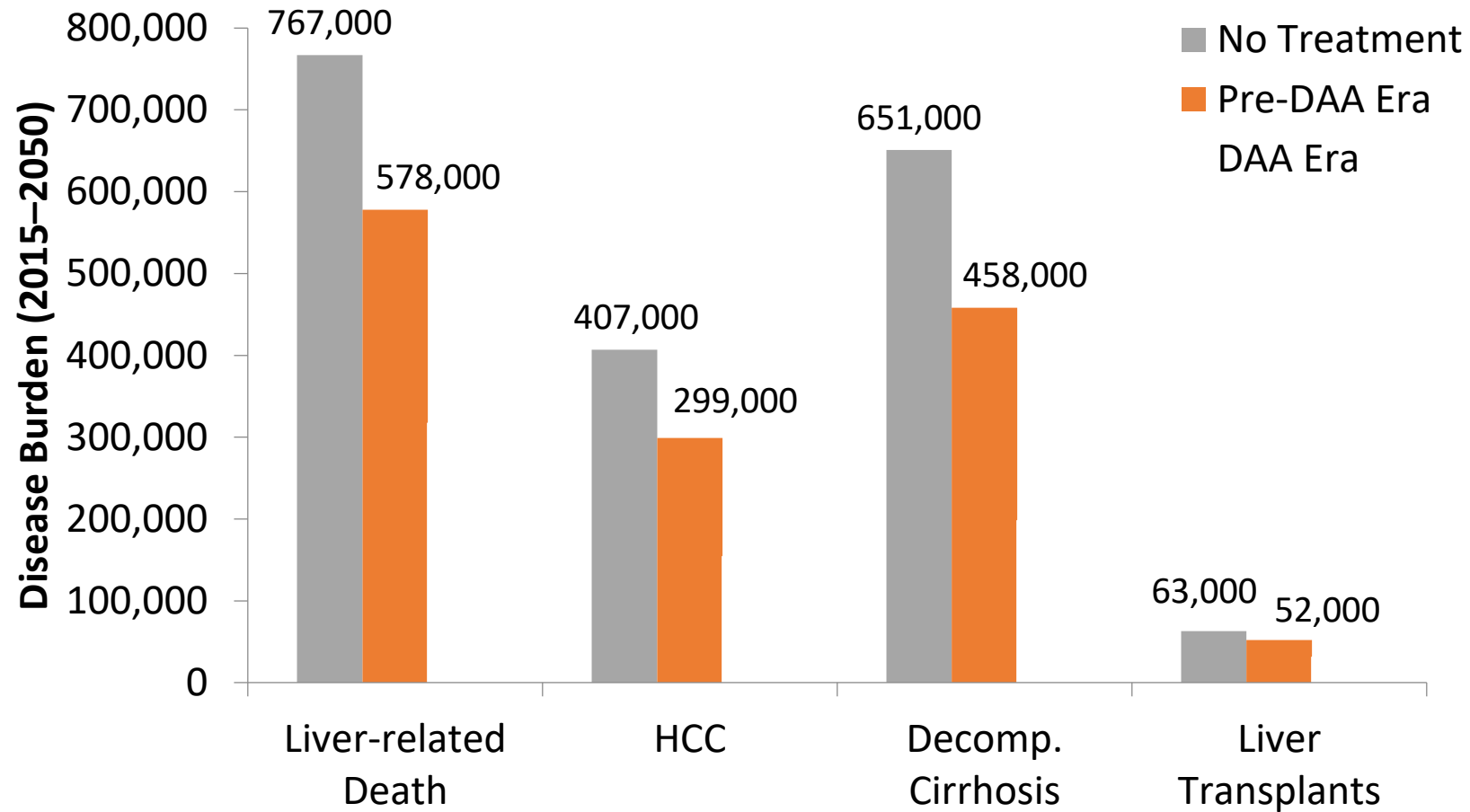
Liver Cancer in the Era of New Antivirals: United States



HCV-Associated Disease Burden (2015–2050)

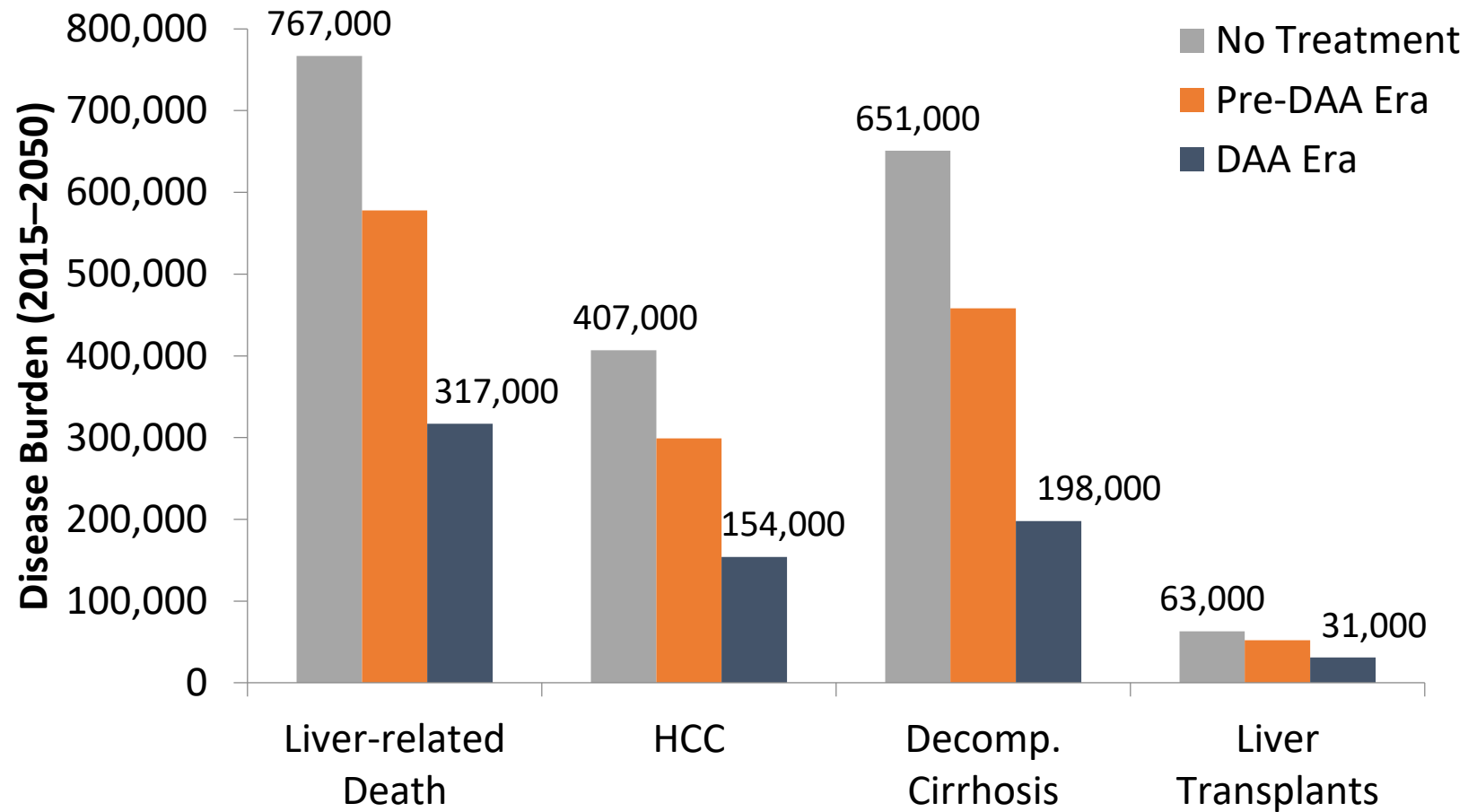


HCV-Associated Disease Burden (2015–2050)



20–30% reduction in HCV-associated disease burden

HCV-Associated Disease Burden (2015–2050)



50–70% reduction in HCV-associated disease burden

Cost of HCV Treatment

The Elephant in the Room...



Is \$1000-a-pill Price Justified?



\$1,000 Pill For Hepatitis C Spurs Debate Over Drug Prices

by RICHARD KNOX

December 30, 2013 3:22 AM



Listen to the Story

Morning Edition



4 min 34 sec

+ Playlist

+ Download

= Transcript

CMAJ

Medical knowledge that matters

Home

Issues

Topic collections

Sections

Information for...

Connect with...

NEWS

February 18, 2014

Screening urged for Hepatitis C but drug costs are prohibitive

Formulations

Gilead is not the original developer of Sovaldi, its new Hepatitis C medication that will cost \$84,000 for a 12-week course of treatment; instead, it bought the drug developer, rival company Pharmasset, for \$11 billion cash in 2011. Gilead now seeks a bon

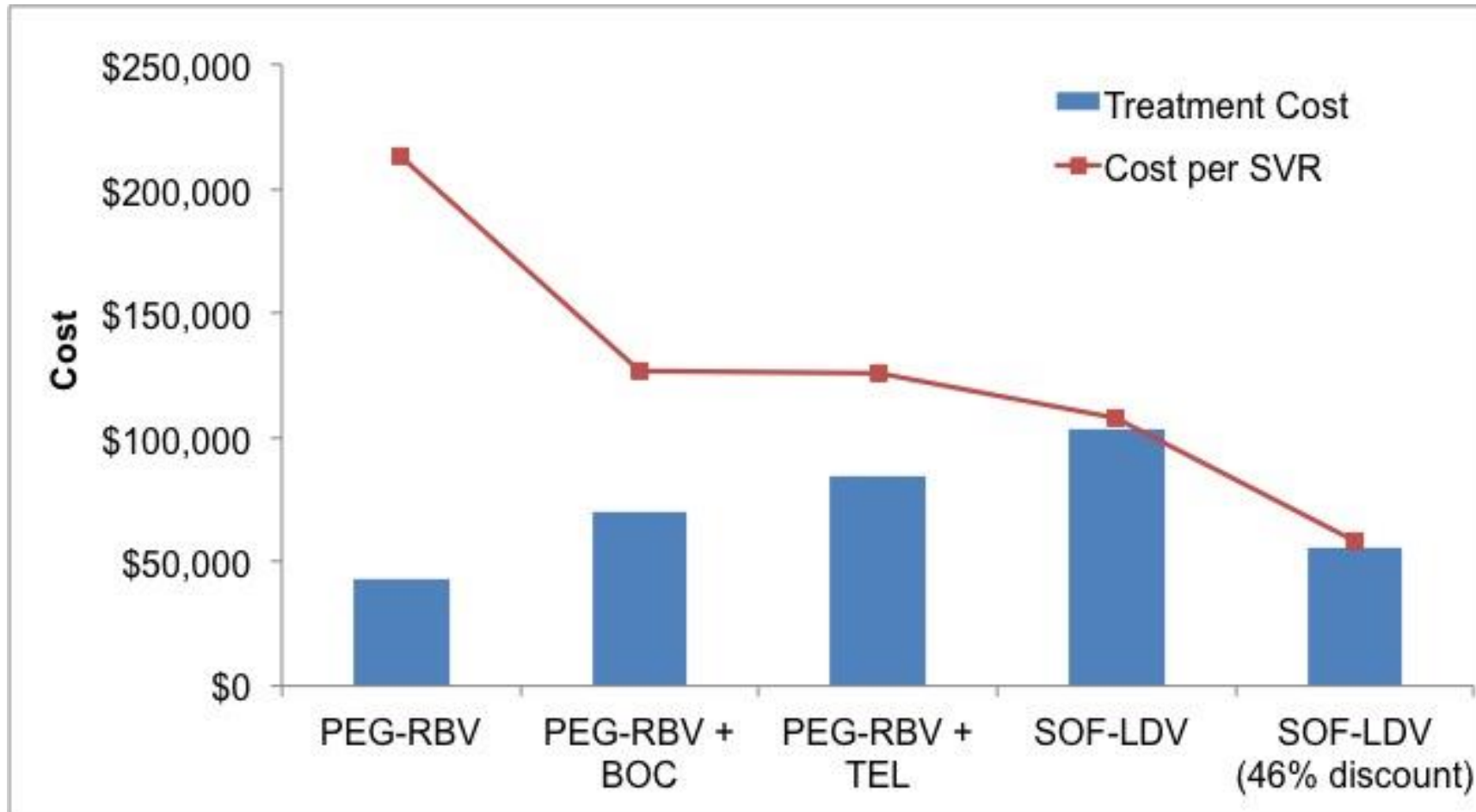
January 29, 2014

the Price Right?

Is HCV Treatment Cost-Effective/Saving?

- Cost-effective \neq cost savings
- Cost-effective \neq affordable
- “**Cost-effective**” implies that we are willing to spend additional money to gain additional health benefits
- “**Cost-saving**” implies that we will gain health benefits by implementing the intervention, and we will save money as well

HCV Treatment Costs Have Decreased



Chhatwal J, et al. Why We Should Be Willing to Pay for Hepatitis C Treatment. *Clin Gastroenterol Hepatol*. 2015;13(10):1711-1713.

What is the Value of HCV Treatment?

What is the lifetime treatment cost?

- **HIV treatment**¹ = \$315,000
- **Primary biliary cholangitis** (obeticholic acid)² = \$900,000
- **Hepatitis C** treatment (oral DAAs) < \$30,000

How much would it cost to gain 1 additional quality-adjusted life year?

- **HIV treatment**³ < \$30,000 (cost-effective)
- **Primary biliary cholangitis** (obeticholic acid)² = \$190,000 (not cost-effective)
- **Hepatitis C** treatment (oral DAAs)⁴ :

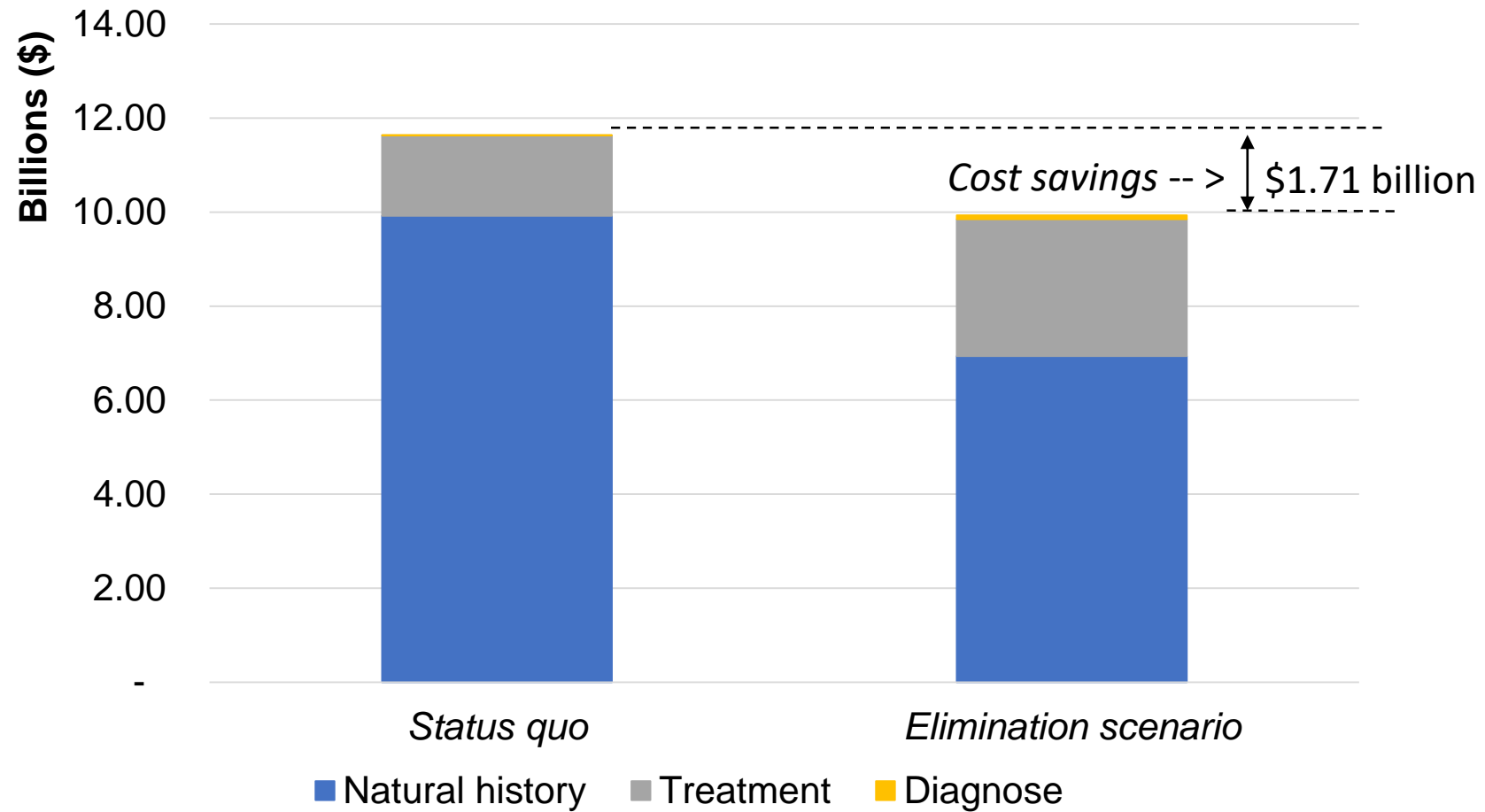
¹Schackman 2006 *Med Care*. ²Samur 2017 *Hepatology*; ³Walensky 2007 *Clinical Inf Dis*. ⁴Chhatwal 2017 *Clinical Gastro & Hep*

HCV Treatment is Cost-Saving

The more we treat, the more we save!

Cost of HCV Management: UK

Cost of HCV Elimination vs. Status Quo: United Kingdom



Summary

- HCV elimination is feasible and will save lives
- Initial investment is needed to eliminate HCV
 - Resources spent on HCV elimination provide a good value for money and will result in cost-savings