

# Benefits of Prevention, Early Intervention, and Adherence

*Presented by:*

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*Alkermes*

**AMGEN**

 **astellas**

 **Boehringer  
Ingelheim**



 **Biogen**

**BIOMARIN**

 **Bristol Myers Squibb**<sup>TM</sup>

**CSL**

 **Daiichi-Sankyo**



**EMD  
SERONO**

 **GILEAD**  
Creating Possible

**GSK**

**Genentech**  
*A Member of the Roche Group*



 **IPSEN**  
Innovation for patient care

**Johnson & Johnson**

*Lilly*

*Lundbeck* 

 **MERCK**  
*Be well*

 **NOVARTIS**

  
novo nordisk

 **Otsuka**

 **Pfizer**

 **Sage  
Therapeutics**<sup>TM</sup>

**sanofi**

 **Sumitomo Pharma**

 **Takeda**

 **ucb** Inspired by **patients.**  
Driven by **science.**

# The Science Has Never Been More Promising



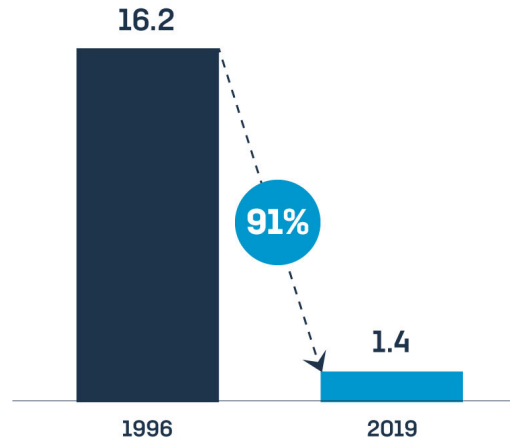
CENTERS FOR DISEASE  
CONTROL AND PREVENTION

“ Hepatitis C treatment can cure more than 90% of hepatitis C cases. ”

# AJMC<sup>®</sup>

Estimated to reach \$43 billion in savings by 2026

Decline in age-adjusted HIV/AIDS death rates per 100,000



HIV/AIDS is now a chronic and manageable disease.



US cancer death rate falls 33% since 1991, partly due to advances in treatment

# STAT

HPV vaccine study finds zero cases of cervical cancer among women vaccinated before age 14

# Better use of medicines can improve health outcomes and reduce the use of costly medical care

The COVID-19 pandemic illustrates how critical medicines are in overcoming our most pressing health care challenges.

With medicines we can:



# Mechanisms by which medicines improve health and reduce spending on other costly medical care

## Prevention of Disease

- ✓ A vaccines prevent infectious diseases and reduces hospitalizations.
- ✓ Prophylactic treatment prevent diseases or reduces a life-threatening complication

## Better management of Disease

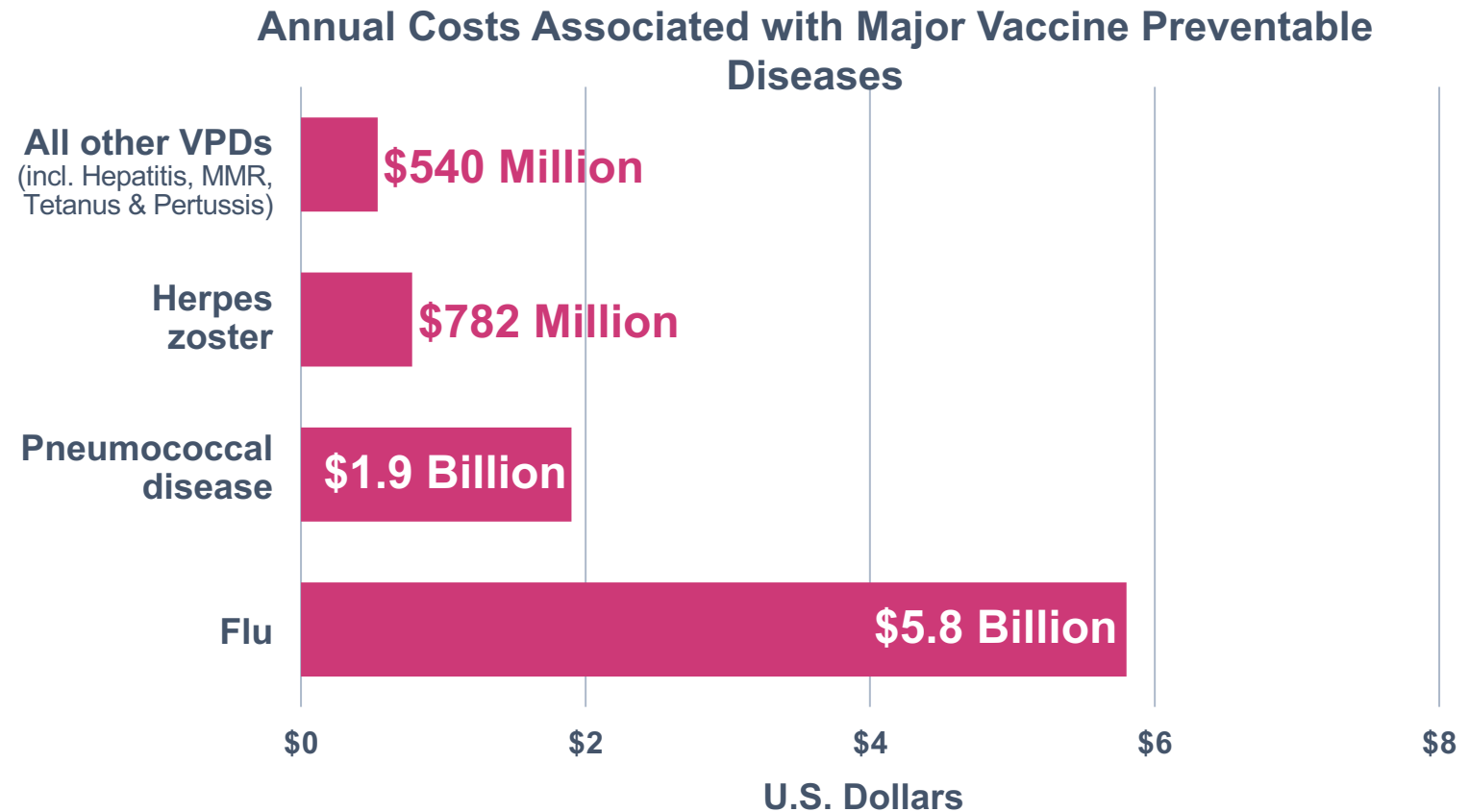
- ✓ A new medicine achieves better health outcomes than a prior standard of care.
- ✓ An improved formulation of an existing medicine improves treatment adherence producing better health outcomes.

## Curing Disease

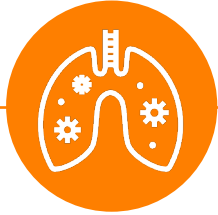
- ✓ A therapy corrects a malfunctioning gene, eliminating a genetic condition and the costs previously associated with treating it.
- ✓ An antiviral cures an infectious disease and prevents disease complications.

# Vaccines could avoid billions of dollars each year through preventing disease

The COVID-19 pandemic's total economic impacts in the U.S. are estimated to be **\$6.12 trillion**, twice as great as those of the Great Recession of 2008



# Vaccines prevent and decrease the severity of disease, reducing healthcare costs



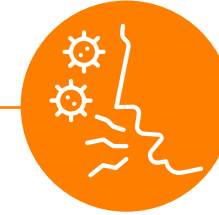
## COVID-19

COVID-19 vaccines **prevented** more than **18 million hospitalizations** and **nearly 3 million deaths** in the first two years they were available.



## Flu

Flu vaccination **prevented** an estimated **7.5 million influenza cases**, **3.7 million medical visits**, **105,000 hospitalizations** and **6,300 deaths**, between 2019-2020 – the last flu season prior to the COVID-19 pandemic.

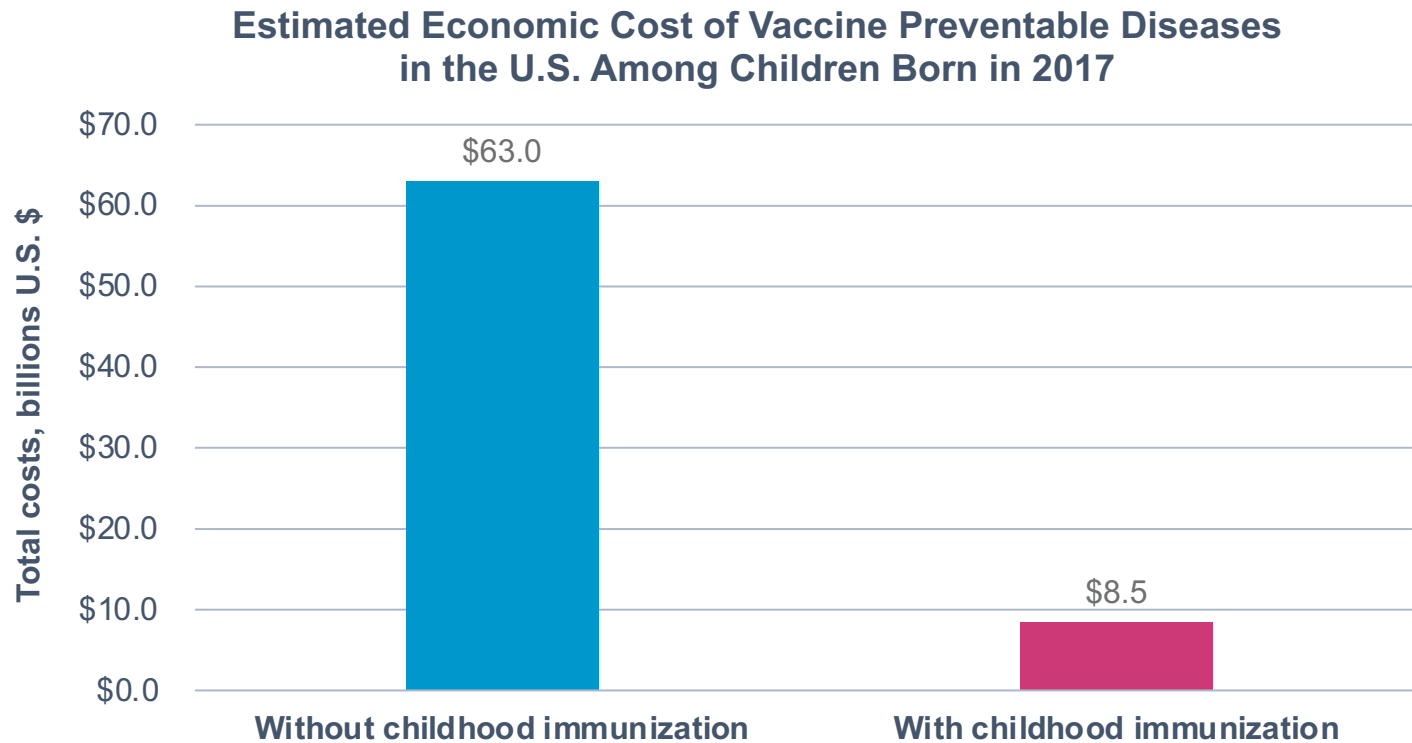


## Whooping Cough (Pertussis)

The vaccine for whooping cough is **effective in reducing severity of a disease** that previously killed 1 in 10 children who became infected prior to the availability of the vaccine.

# Childhood vaccines produce significant savings

Each dollar invested in pediatric immunization alone results in \$7.50 in savings for health systems and society



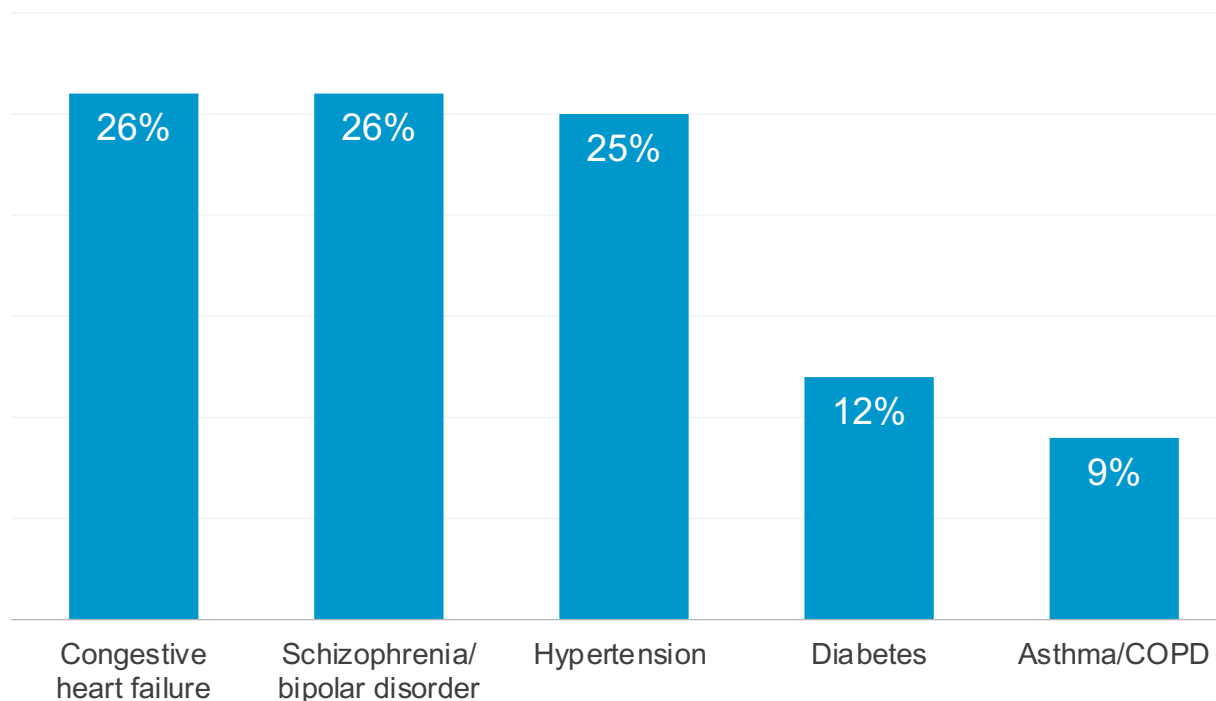
Childhood vaccines prevented more than **one million** early deaths and **saved nearly \$2.2 trillion** between 1994–2021



# Better Adherence Generates Savings in Medicaid

Optimal adherence to medicines for a range of chronic conditions leads to reductions in hospitalizations for many patients enrolled in Medicaid.

Reductions in Hospitalizations Due to Medication Adherence\*



Economic impact of nonadherence on Medicaid hospital spending was **\$8 BILLION** in 2017.

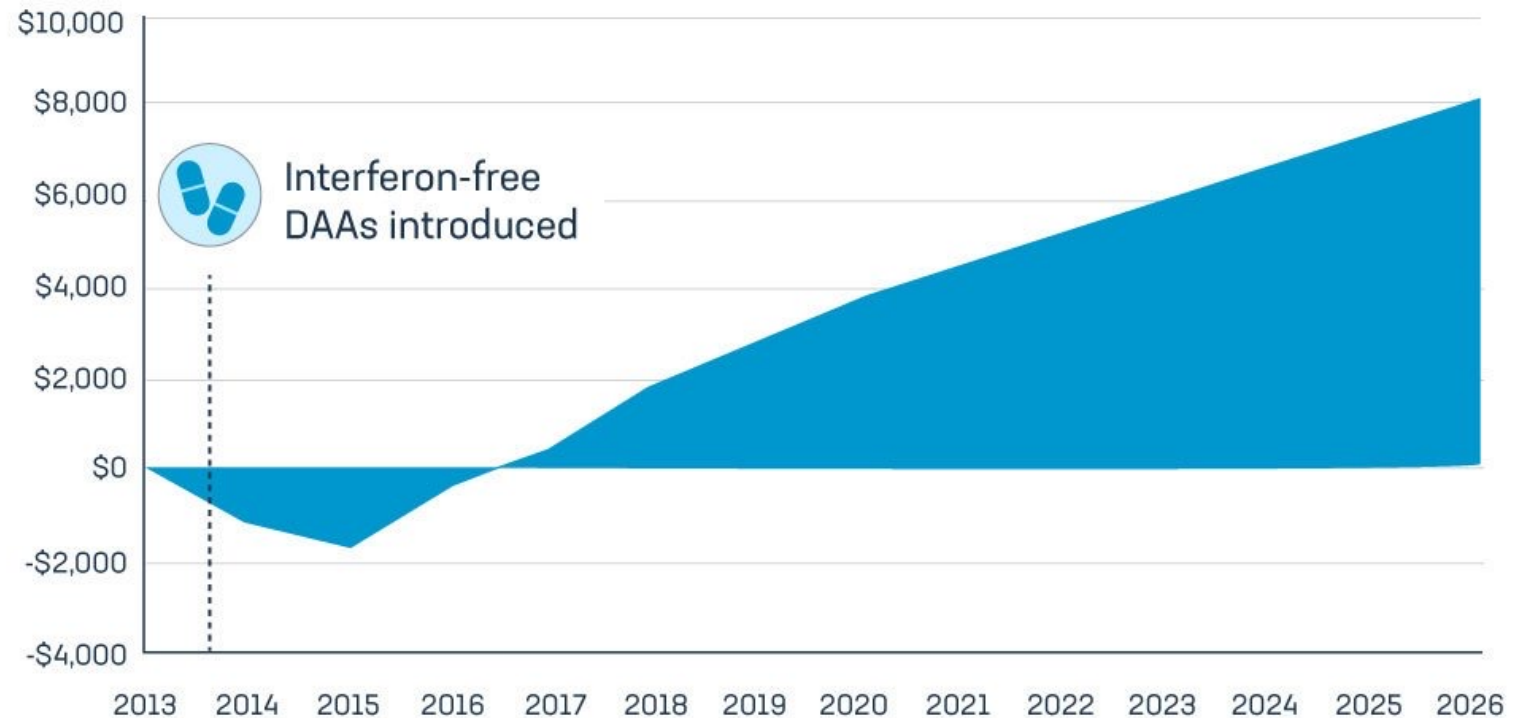
\*Results apply to Medicaid populations that are not blind or disabled.

# Hepatitis C Medicines Produce Savings in Medicaid

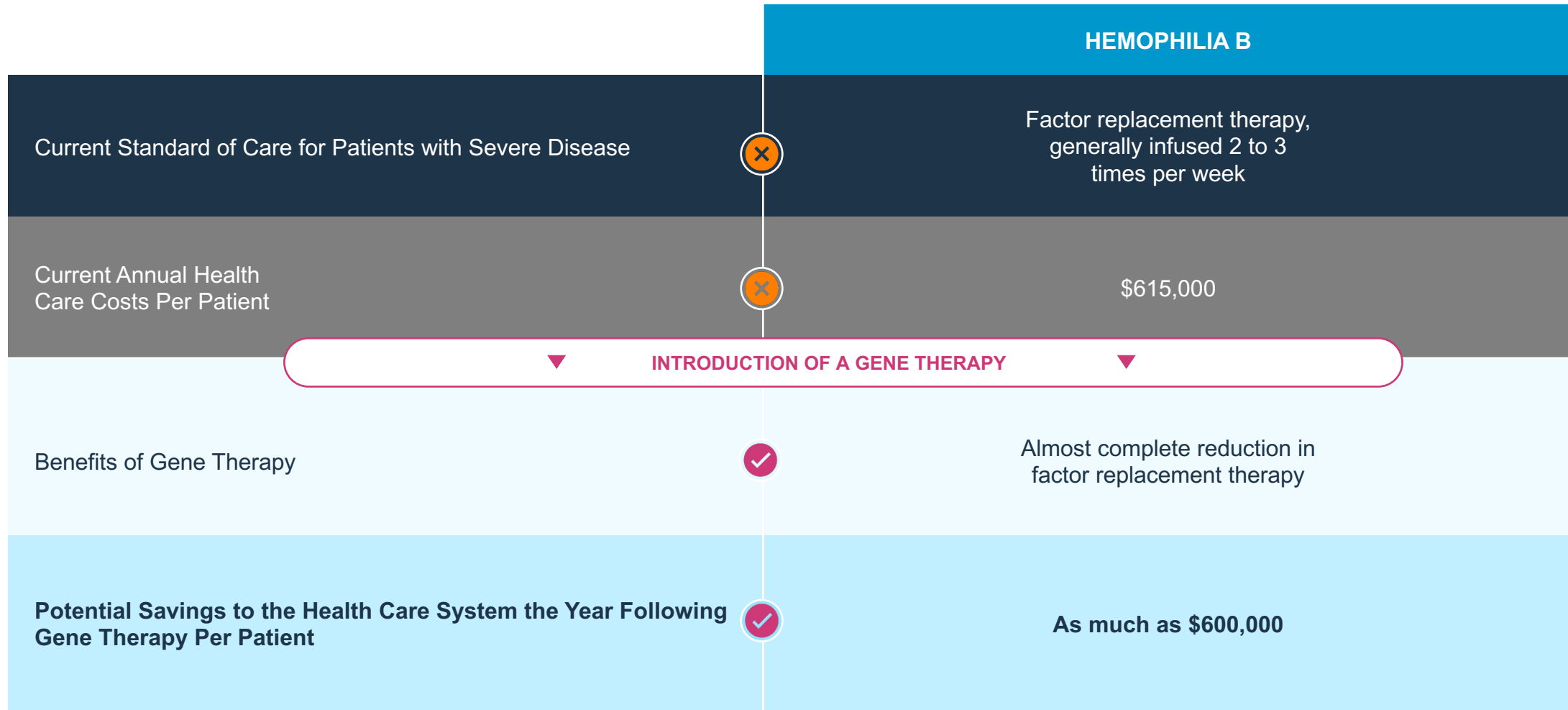
By 2017, the savings realized due to avoided disease complications and health costs fully offset the costs of treatment to cure the disease in Medicaid.

**By 2026, the cumulative amount of these savings is estimated to reach \$43 billion.**

**Net Total Health Care Cost Savings due to DAA Therapy in Medicaid, 2013-2026 (in Millions)**



# Gene Therapies Have the Potential to Reduce Patient Burden and Health Care Costs for Hemophilia B



# PhRMA Created the Medicine Assistance Tool, or MAT, To Help Patients Navigate Medicine Affordability

**MAT makes it easier for those struggling to afford their medicines to find and learn more about various programs that can make prescription medicines more affordable.**

## The Medicine Assistance Tool Includes:

A search engine to connect patients with

**900+**

assistance programs offered by  
biopharmaceutical companies, including  
some free or nearly free options



Resources to help patients  
navigate their insurance coverage



Links to biopharmaceutical  
company websites where  
information about the cost of a  
prescription medicine is available

# Conclusion

