

An Economic Assessment of the Cost of Cancer in Texas
and the Benefits of the
Cancer Prevention and Research Institute of Texas (CPRIT)
and its Programs:
2025 Update

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Summary of Key Results

- The estimated direct **cost of cancer** in Texas, as traditionally measured, rose to more than **\$62.9 billion** in 2025 (compared to about \$59.5 billion in 2024), with total economic losses (including multiplier effects) of an estimated **\$164.7 billion** in annual output and over **1.3 million** jobs.
- The **current (2025) total annual impact of all CPRIT operations, prevention/screening, and research programs** (including initial outlays and multiplier effects) includes an estimated **\$718.4 million** in annual output (gross product) as well as over **8,100** jobs. When all secondary and downstream benefits are considered, these values rise to more than **\$32.7 billion** in yearly output and almost **261,600** jobs.
- This incremental business activity generates **taxes for the State and local governments**.
 - In 2025, annual tax receipts associated with CPRIT grants and programs (including downstream effects) total about **\$1.8 billion** to Texas, a notable increase over last year's more than \$1.5 billion; local public entities receive **\$768.5 million**.
 - Since the inception of CPRIT, these gross incremental taxes total approximately **\$27.0 billion** for the State and over **\$11.6 billion** for local government entities.
 - The net incremental taxes (which nets out the potential benefits of other typical uses of State funds over the period since inception) include **\$26.5 billion** to the State and **\$11.3 billion** to local governments.
 - These amounts are well in excess of the total commitment of State resources. Notable gains in benefits in recent years reflect factors such as the compounding effects over time and the substantial matching funds that are being leveraged by CPRIT activities.

Every Dollar Invested Through CPRIT Returns: (Including Initial Outlays and Secondary (Downstream) Effects)	
\$31.15	In Treatment Cost Savings and Resulting Economic Benefits through Earlier Detection from Prevention/Screening Activity in 2025
\$242.37	In Economic Activity (Total Expenditures) in 2025
\$118.83	In Output (Real Gross Product) in 2025
\$71.37	In Personal Income in 2025
\$33.22	In Retail Sales in 2025
\$6.53	In State Tax Receipts as of 2025
\$2.79	In Local Government Tax Receipts as of 2025
Source: The Perryman Group	

- It is worthy of note that, since 2010, Texas has seen growth in bioscience manufacturing employment of about 49.1%. The pace is far in excess of that of the United States (15.5%) and states that have traditionally been major centers of such activity. Expansion in competing states is far lower, including North Carolina (18.6%), Illinois (17.8%), Georgia (11.8%), California (7.7%), Ohio (5.5%), Massachusetts (2.8%), and Pennsylvania (-7.1%). While there are other factors that support the success in Texas, the investments and programs supported by CPRIT are a major differentiating factor. This performance and the success of CPRIT were significant factors in the selection of Texas as a major hub for the new Advanced Research Projects Agency for Health (ARPA-H) initiative in 2023.
- **Basic medical research is also a part of society's essential infrastructure, and CPRIT has demonstrated the capacity to enhance the health of Texans and the economy at a pace that far exceeds the direct investment.**
- These results are explained more fully in subsequent sections and the Appendices of this report.

Introduction

The Cancer Prevention and Research Institute of Texas (CPRIT) has been working to reduce the tragically high human and financial cost of cancer since 2010. CPRIT has helped attract more than 340 leading cancer research scientists and their labs to Texas from both US and international locations (including members of the prestigious National Academy of Sciences). CPRIT funding has also contributed to 72 companies starting, expanding, or relocating to Texas. **CPRIT**

Reducing the burden of cancer provides benefits to individuals, families, hospitals, state and local governments, insurance providers, and society as a whole.

scholar Dr. James Allison, who was recruited to MD Anderson Cancer Center as part of a \$10 million CPRIT grant in 2011, was awarded the 2018 Nobel Prize in physiology or medicine, along with Tasuku Honjo, for his work in cancer immunotherapy. In

September 2020, multiple CPRIT award recipient Dr. Zhijian “James” Chen received the 2020 William B. Coley Award for Distinguished Research in Basic and Tumor Immunology from the Cancer Research Institute. Many other CPRIT scholars have received prestigious awards as well and continue to perform cutting-edge research.

CPRIT reports that funded projects have resulted in over 1,149 published articles in fiscal 2025, as well as 36 patent filings and 8 patents granted. CPRIT funding has led to 374 clinical trials

or studies with over 63,500 patients enrolled.

In addition, CPRIT grants for screening and related education have provided

In addition to their positive effect on health and wellbeing, CPRIT activities generate sizable economic benefits.

10.9 million prevention services (education and training services, navigation services, and clinical services) to Texans from all 254 counties and are improving access to lifesaving testing and prevention for some of the state’s most vulnerable populations.

Reducing the burden of cancer provides benefits to individuals, families, hospitals, state and local governments, insurance providers, and society as a whole. Through

research and prevention/screening, cancer incidence and severity can be notably reduced, providing relief in terms of health outcomes and quality of life, as well as notable benefits to the economy. Medical outlays can be decreased through earlier detection, and improving results benefit both patients and society as a whole through enhancing the productivity and lifespan of those affected by cancer. In addition, research activity, apart from its primary mission to drive fundamental breakthroughs, can serve as a catalyst for business development in related industries (such as biomedicine).

In addition to their positive effect on health and wellbeing, CPRIT activities generate sizable economic benefits. The Perryman Group (TPG) has quantified the cost of cancer in Texas and the economic benefits of CPRIT for many years. This report updates the findings from TPG's analysis utilizing the most recent data regarding cancer incidence and results to date from CPRIT grants, following the same general methodology and report structure to aid in comparisons of results across years.

Report Components

An approach consistent to prior years was used where possible in this 2025 update. At present, the initial CPRIT grants have been in place for about 15 years. Recipients have reported progress, hiring, matching funds, and other key performance metrics. Firms have also located to Texas or expanded as a result of CPRIT efforts. This information was used in assessing the economic impacts related to research to the extent possible and, as in prior updates, were used to validate model results. The major components of The Perryman Group's analysis include the following:

The **economic cost of cancer** in terms of Texas business activity including losses stemming from treatment, morbidity, and mortality as well as the associated spillover effects are initially estimated. Data regarding the numbers of Texans with cancer and the associated costs for direct medical expenses, morbidity costs, and mortality are the subject of reports by entities such as the National Institutes of Health, the American Cancer Society, the National Cancer Institute (Centers for Disease Control (CDC)), and the Texas Cancer Registry (Texas Department of State Health Services). The projected costs of cancer treatment in 2025 and 2035 and an estimated breakout of cancer expenditures by payer in 2024 are also given. An analysis of the losses associated with the top four cancer sites for annual deaths in Texas for 2025 (lung and bronchus, colorectal, breast, and pancreas) are also provided. An analysis of losses associated with cervical cancer is also provided this year since it is a preventable cancer with an associated screening test. Additionally, an estimate of the impact of delayed cancer screening and treatment due to the COVID-19 pandemic is provided.

The **overall effect of CPRIT operations** on business activity in Texas (including multiplier effects) is estimated using input data regarding direct expenditures and operations employment at the Institute.

The **positive economic benefits of CPRIT-supported cancer prevention and screening programs** are also assessed, including both the increase in business activity due to the screenings themselves and the associated benefits from improved health. The effects of matching funds generated by CPRIT programs were also included.

Economic returns on research supported by the Institute (including the effects related to the specific outlays, actual and anticipated recruitment efforts for high quality scholars in relevant areas, typical returns on medical research investments, and spinoff companies that surface from such endeavors) were also evaluated. Again, associated matching funds are incorporated into the analysis.

Some illustrative scenarios related to **potential economic development and social gains** (a recently added feature) stemming from the Institute's role as a catalyst for incremental business activity are provided, as well as others demonstrating the economic value of increased quality of life, longevity, and productivity from improved outcomes.

The Appendices provide a detailed discussion of all technical aspects of the report, including methodology and disaggregated results.

The Economic Cost of Cancer in Texas

Cancer affects the longevity, quality of life, and finances of individuals suffering with the illness. Costs associated with cancer include direct medical outlays for treatment and care as well as indirect costs such as disease-related work disability or premature mortality. Prevention, early detection, effective treatment, and medical advances to minimize the consequences of the disease are vital national and, indeed, global priorities.

Despite advances in many aspects of cancer prevention and treatment, the number of Americans diagnosed with the disease remains very high. One factor in the recent upward trend in new cases is the aging of the US population, as cancer incidence increases among older age groups. The COVID-19 pandemic during 2020 that continued into 2022 and the resulting shutdowns led to many appointments being missed, cancelled, or delayed and will likely lead to increased cancer cases, severity, and deaths over time partially due to later cancer detection. TPG has calculated a preliminary estimate of the economic impact of delayed cancer screening and treatment discussed later in the report.

Cancer Incidence

The American Cancer Society estimates that there will be about 2,041,910 new cases of cancer (1,053,250 male and 986,660 female) and 618,120 deaths from cancer (323,900 male and 294,220 female) in the US in 2025. The number of new cases expected in 2025 is about 40,770 higher than the projected number for 2024 as cases for both males and females are expected to increase. The estimated cancer deaths are also expected to increase overall with a rise in both male and female deaths compared to 2024.¹

In Texas, a total of 150,870 new cases of cancer are anticipated in 2025, with 45,220 cancer deaths projected according to the American Cancer Society.² Compared to the estimates for 2024, approximately 3,000 more cases and about

¹ American Cancer Society, *Cancer Facts & Figures 2025*, Atlanta: American Cancer Society, 2025. Note these estimates are based on reported cancer incidence and mortality through 2021 and 2022, respectively, and may not account for the full impact of the coronavirus disease 2019 (COVID-19) pandemic.

² American Cancer Society, *Cancer Facts & Figures 2025*, Atlanta: American Cancer Society, 2025.

860 more deaths are expected in 2025. The Texas Cancer Registry projects slightly different numbers for Texas in 2025 than the American Cancer Society with 148,598 new cases (76,477 male and 72,121 female), as well as 48,814 deaths (26,074 male and 22,740 female).³ Cancer remains the second most common cause of death after heart disease.⁴

Cancer Costs

In addition to the extremely high human cost, cancer causes economic harms to affected individuals, businesses, and society as a whole through shortened life spans, lost productivity, increased health care expenditures, and premature mortality.

The direct medical costs and morbidity and mortality losses (as traditionally measured) in the state totaled an estimated **\$62.9 billion** in 2025, up from \$59.5

*The direct medical costs of cancer and morbidity and mortality losses (as traditionally measured) in the state totaled an estimated **\$62.9 billion** in 2025, increasing significantly over the past few years.*

billion in 2024 and \$56.3 billion two years ago (according to TPG's update of existing information from the National Institutes of Health⁵ and a study of costs in Texas)⁶ as well as other data from several more recent studies.⁷ In 2010, cancer

³ "Expected New Cancer Cases and Deaths by Primary Site, Texas, 2025," Texas Cancer Registry, Cancer Epidemiology and Surveillance Branch, Texas Department of State Health Services, February 2025. Because of the additional detail provided in these estimates, they are used in much of the current analysis.

⁴ American Cancer Society, *Cancer Facts & Figures 2025*, Atlanta: American Cancer Society, 2025.

⁵ The National Institutes of Health (NIH) estimated the total overall cost of cancer in 2010 (the latest year for which such information is available) to be \$263.8 billion including direct medical costs of \$102.8 billion (including the total of all health expenditures), indirect morbidity costs (the cost of lost productivity due to illness) of \$20.9 billion, and indirect mortality costs (the cost of lost productivity due to premature death) of \$140.1 billion. See *Cancer Facts & Figures 2011*, American Cancer Society, 2011.

⁶ A study directed by the Texas Department of State Health Services (DSHS) and conducted by scholars at the University of Texas Medical Branch (UTMB) found that the total cost of cancer in the state was roughly \$21.9 billion in 2007, with \$10.0 billion in direct medical costs and \$11.8 billion in indirect costs from lost productivity due to cancer morbidity and mortality. See Philips, B.U., et al., *The Cost of Cancer in Texas 2007*, Department of Preventive Medicine and Community Health; Texas Medical Branch at Galveston, March 2009.

⁷ Data from several other studies were used to refine the cost of cancer estimate. See Yabroff, K. Robin, et al., *Annual Report to the Nation on Status of Cancer, Part 2: Patient Economic Burden Associated with Cancer*, Journal of the National Cancer Institute, October 26, 2021, <https://academic.oup.com/jnci/article/113/12/1670/6409890>; Park,

treatment costs in Texas were about \$11.5 billion in current dollars and \$17.1 billion in constant 2025 dollars. In 2025, treatment costs are estimated to be about \$26.2 billion in current and constant 2025 dollars (a 128.7% and 53.4% rise, respectively). By 2035, the projected costs are expected to be almost \$38.2 billion in current dollars, 45.5% higher than in 2025. In constant 2025 dollars, the costs are projected to be about \$30.5 billion by 2035, a 16.5% increase over 2025. The projected rates of increase at the national level are even higher.

Costs of cancer treatment are covered by private insurance companies, social programs such as Medicare and Medicaid, and by the patients themselves.

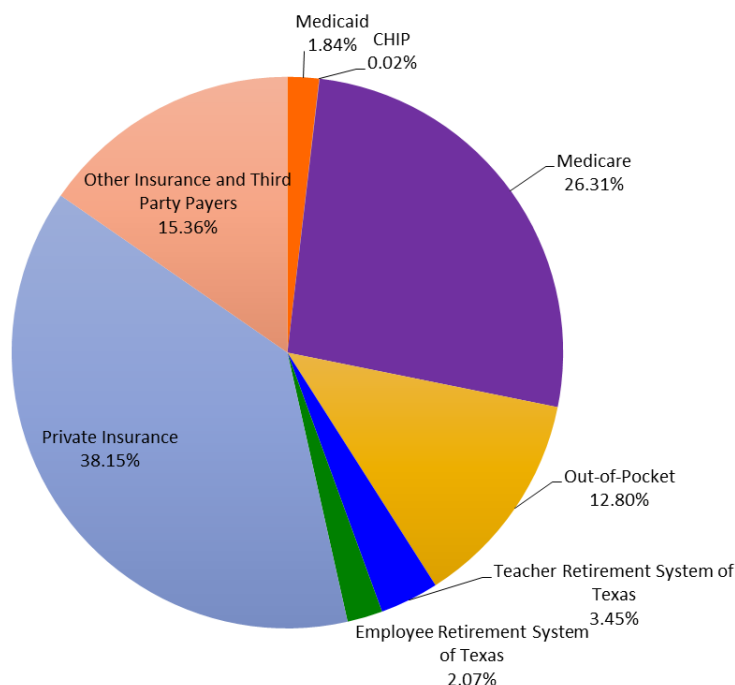
- The Perryman Group estimates that the cost of cancer treatment to private insurance companies in Texas in 2024 was \$10.0 billion.
- The cost of treating cancer in Texas paid through Medicaid in 2024 was \$483.1 million.
- The CHIP program spent almost \$4.9 million treating cancer in 2024.
- Costs of cancer treatment to Medicare in Texas in 2024 totaled an estimated \$6.9 billion.
- The cost of cancer treatment to the Teacher Retirement System of Texas for 2024 was about \$903.7 million while the cost to the Employment Retirement System of Texas was about \$543.0 million.⁸
- The cost of treating cancer to other third-party payers in 2024 was determined to be about \$4.0 billion.
- The out-of-pocket cost to cancer patients in Texas in 2024 was approximately \$3.4 billion.⁹

Joohyun, and Kevin Look, Health Care Expenditure Burden of Cancer Care in the United States, National Library of Medicine, October 4, 2019, <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6778988/>; Mariotto, Angela B. et al., Medical Care Costs Associated with Cancer Survivorship in the United States, Cancer Epidemiol Biomarkers Prev., July 2020, <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC9514601/>; and Financial Burden of Cancer, National Cancer Institute, Cancer Trends Progress Report, August 2023, https://progressreport.cancer.gov/after/economic_burden.

⁸ Data provided by TRS and ERS personnel.

⁹ Medicaid and CHIP cancer expenditure data from AHQP Claims Universe, Texas Medicaid and Healthcare Partnership (TMHP); Enc_Best Picture Universe, TMHP; prepared by Data Dissemination and Reporting, Office of Data, Analytics, and Performance, Texas Health and Human Services Commission (HHSC), October 2025. All other expenditures are approximations by The Perryman Group based on best available data.

Cancer Treatment Costs Allocation by Payer in Texas 2024



Sources: Medicaid and CHIP cancer expenditure data from AHQP Claims Universe, Texas Medicaid and Healthcare Partnership (TMHP); Enc_Best Picture Universe, TMHP; prepared by Data Dissemination and Reporting, Office of Data, Analytics, and Performance, HHSC, October 2025. All other expenditures are approximations by The Perryman Group based on best available data.

The cost of cancer goes well beyond initial effects. Several studies have clearly indicated the very large economic losses associated with cancer. While many of these are excellent analyses, they fail to capture numerous “multiplier” effects associated with the disease and, thus, represent only a portion of the overall losses in business activity (only the initial effect of the various categories of cost).

The cost of cancer goes well beyond initial impacts. It also includes associated foregone spillover effects.

Most studies of cancer costs reflect only the initial effect of direct medical outlays for treatment and care, and indirect costs such as disease-related work disability or premature mortality are not included. However, these losses, in turn, generate further reductions in business activity.

Several years ago, The Perryman Group developed a more comprehensive measure of the cost of cancer which includes losses stemming from treatment, morbidity, and mortality as well as the associated foregone spillover effects. This more comprehensive measurement approach was utilized by The Perryman Group in the current analysis.

Measuring Economic Impacts

Any economic stimulus, whether positive (such as direct spending, investments, or corporate activity) or negative (such as lost productivity due to disease) generates multiplier effects throughout the economy. In this instance, economic costs of cancer include not only the initial incidence of costs, but also the subsequent rounds of economic activity which are forgone. Economic benefits of cancer research and prevention/screening activities include, among others, increased research spending, commercialization of discoveries, enhanced screening programs, and higher productivity stemming from better health outcomes. (These channels of benefits are described within the report and the accompanying Appendices.) Once the direct stimulus was quantified, the associated multiplier effects were measured.

The Perryman Group's dynamic input-output assessment model (the US Multi-Regional Impact Assessment System, which is described in further detail in the Appendices to this report) was developed by The Perryman Group about 40 years ago and has been consistently maintained and updated since that time; it has been used in hundreds of analyses for clients ranging from major corporations to government agencies. The system uses a variety of data (from surveys, industry information, and other sources) to describe the various goods and services (known as resources or inputs) required to produce another good/service. This process allows for estimation of the total economic impact (including multiplier effects) of CPRIT programs and related activity. An associated fiscal model allows for estimation of tax receipts to state and local entities. The submodels used in the current analysis reflect the specific industrial composition and characteristics of the Texas economy and its various counties, metropolitan areas, regions, and legislative districts.

These total economic effects are quantified for key measures of business activity. Note that these are different methods of quantifying the same effects; they are not additive.

- **Total expenditures** (or total spending) measure the dollars changing hands as a result of the economic stimulus.
- **Gross product** (or output) is production of goods and services that will come about in each area as a result of the activity. This measure is parallel to the gross domestic product numbers commonly reported by various media outlets and is a subset of total expenditures.
- **Personal income** is dollars that end up in the hands of people in the area; the vast majority of this aggregate derives from the earnings of employees, but payments such as interest and rents are also included.
- **Job gains** are expressed as (1) job-years of employment (equivalent to one person working for one year but it could be multiple people working part of a year) for temporary projects (such as construction of a facility) or cumulative assessments over time or (2) jobs when evaluating ongoing annual effects.

Dynamic State and local government revenues reflect tax receipts stemming from the increase in total economic activity. Monetary values were quantified on a constant (2025) basis, which eliminates inflationary effects and allows comparison across various time periods. See the Appendices to this report for more detailed information regarding the methods and assumptions used in this analysis.

Total Economic Cost of Cancer

Using The Perryman Group's more comprehensive measure, the total cost of cancer to the Texas economy is estimated to be about **\$334.1 billion** in reduced annual spending, **\$164.7 billion** in output losses per annum, and more than **1.3 million** lost jobs from cancer treatment, morbidity, and mortality and the associated spillover effects. These amounts reflect a significant increase over last year's estimated total cost of

Using The Perryman Group's more comprehensive measure, the total cost of cancer to the Texas economy is estimated to be more than \$164.7 billion in output losses per annum and more than 1.3 million lost jobs.

\$317.5 billion in spending, \$156.5 billion in output, and less than 1.3 million jobs. **These totals represent approximately 5.77% of the total output of the Texas economy, 6.15% of income, and 8.94% of employment.**

The yearly loss in State fiscal revenues from cancer (including Medicaid and CHIP and uncompensated care) is over **\$10.8 billion**, while losses to local governments include almost **\$5.6 billion** per annum.

The yearly loss in State fiscal revenues from cancer (including Medicaid and CHIP and uncompensated care) is over \$10.8 billion, while losses to local governments include almost \$5.6 billion per annum.

Losses are spread across all regions of Texas and are concentrated in the state's most populous areas. Details of these losses from cancer treatment, morbidity, and mortality and the associated spillover effects are shown in the following table.

The Total Annual Impact of Losses (Treatment, Morbidity, and Mortality) Associated with the Incidence of Cancer on Business Activity in Texas (Monetary Values in Billions of Constant 2025 Dollars)				
	Treatment	Morbidity	Mortality	TOTAL
Total Expenditures	(\$86.3)	(\$73.2)	(\$174.5)	(\$334.1)
Gross Product	(\$43.4)	(\$35.8)	(\$85.4)	(\$164.7)
Personal Income	(\$28.6)	(\$20.8)	(\$49.5)	(\$98.8)
Retail Sales	(\$11.2)	(\$10.6)	(\$25.4)	(\$47.2)
Employment (Jobs)	(384,451)	(269,795)	(666,498)	(1,320,745)
Note: Totals may not equal sum of components due to independent rounding. Source: The Perryman Group				

COST OF CANCER BY COUNCIL OF GOVERNMENTS REGION

ECONOMIC COST OF CANCER INCLUDING DIRECT MEDICAL EXPENSES AND PREMATURE
MORBIDITY AND MORTALITY



ANNUAL EFFECT ON BUSINESS ACTIVITY		
	GROSS PRODUCT	EMPLOYMENT
	(Billions of 2025 Dollars)	(Jobs)
Panhandle	(\$3.0)	(24,578)
South Plains	(\$2.8)	(23,889)
Nortex	(\$2.2)	(18,173)
North Central Texas	(\$40.5)	(316,348)
Ark-Tex	(\$2.4)	(21,668)
East Texas	(\$8.1)	(66,670)
West Central Texas	(\$3.1)	(25,814)
Rio Grande	(\$5.1)	(42,603)
Permian Basin	(\$2.9)	(22,285)
Concho Valley	(\$1.3)	(10,725)
Heart of Texas	(\$3.1)	(27,098)
Capital Area	(\$8.5)	(71,614)
Brazos Valley	(\$1.9)	(16,197)
Deep East Texas	(\$3.5)	(31,461)
South East Texas	(\$3.5)	(30,665)
Houston-Galveston Area	(\$39.0)	(284,755)
Golden Crescent	(\$1.6)	(13,493)
Alamo Area	(\$15.6)	(131,484)
South Texas	(\$1.2)	(10,089)
Coastal Bend	(\$4.6)	(36,845)
Lower Rio Grande Valley	(\$5.1)	(45,759)
Texoma	(\$1.8)	(16,038)
Central Texas	(\$2.6)	(24,066)
Middle Rio Grande	(\$0.9)	(8,428)
Border Region	(\$12.4)	(106,925)
TOTAL STATE	(\$164.7)	(1,320,745)
Note: Border Region includes Rio Grande, Terrell County, Middle Rio Grande, South Texas, and Lower Rio Grande Valley		
Source: The Perryman Group		

Site-Specific Costs

The Perryman Group also analyzed the losses associated with the top four cancer sites for annual deaths in Texas (lung and bronchus, colorectal, breast, and pancreas) as well as cervical cancer. The Perryman Group estimated the total direct annual medical cost of the top four cancer sites for deaths in Texas for 2025 to be almost **\$5.0 billion**. When multiplier effects are considered, the total estimated cost to the Texas economy includes almost **\$61.3 billion** in reduced annual spending, **\$30.2 billion** in reduced output per year, and **243,100** lost jobs from cancer treatment, morbidity, and mortality and the associated spillover effects.

The top four cancer sites for annual deaths in Texas cost the state economy \$30.2 billion in reduced output per year and 243,100 lost jobs (including multiplier effects).

The Total Impact of Losses (Treatment, Morbidity, and Mortality) Associated with Expected Lung and Bronchus, Colorectal, Breast, and Pancreatic Cancer Deaths in 2025 and Other Effects on Texas Business Activity (Monetary Values in Billions of Constant 2025 Dollars)

	Lung and Bronchus	Colorectal	Breast	Pancreatic	TOTAL
Total Expenditures	(\$30.0)	(\$13.6)	(\$7.8)	(\$9.9)	(\$61.3)
Gross Product	(\$14.8)	(\$6.7)	(\$3.8)	(\$4.9)	(\$30.2)
Personal Income	(\$8.9)	(\$4.0)	(\$2.3)	(\$2.9)	(\$18.1)
Retail Sales	(\$4.2)	(\$1.9)	(\$1.1)	(\$1.4)	(\$8.7)
Employment (Jobs)	(119,176)	(53,453)	(30,935)	(39,543)	(243,108)

Note: Medical costs based on (1) estimated costs per site for cancer cases over the diagnosis period as estimated by the National Institutes of Health (adjusted to reflect current dollars based on the Medical Services CPI for Texas areas as maintained by the US Bureau of Labor Statistics), (2) estimated incidence and deaths by cancer site in Texas for 2025 as compiled by the Texas Cancer Registry, and (3) estimated patterns following diagnosis based on patterns of incidence and death by site. Morbidity and mortality effects are estimated based on patterns relative to medical costs in Texas and approximate cost allocations over the disease cycle (which provides a reasonable proxy for morbidity and mortality patterns). Totals may not equal sum of components due to independent rounding.

Source: The Perryman Group

Details of losses from treatment, morbidity, and mortality for each of these cancers can be found in the Appendices.

As an addition to the report starting in 2024, The Perryman Group also analyzed the losses associated with cervical cancer, which is a preventable cancer with an associated screening test. The Perryman Group estimates that the total direct annual medical cost of cervical cancer in Texas for 2025 is approximately **\$233.4 million**. The analysis also indicates a total cost to the Texas economy of more than **\$3.1 billion** in reduced annual spending, **\$1.5 billion** in reduced output per year, and about **12,300** lost jobs from cancer treatment, morbidity, and mortality and the associated spillover effects. Additional details of the losses from treatment, morbidity, and mortality for cervical cancer are available in the Appendices.

Estimate of Impact of Delayed Cancer Screening and Treatment Arising from the COVID-19 Pandemic

As mentioned previously, the COVID-19 pandemic which began in 2020 and continued into 2022 and the resulting shutdowns led to many appointments being missed, cancelled, or delayed and will likely lead to increased cancer cases, severity, and deaths over time. TPG used available information to provide a preliminary estimate of the impact of delays in cancer screening and treatment due to the COVID-19 pandemic and related disruptions. TPG estimates the delayed cancer screening and treatment associated with the COVID-19 pandemic will lead to decreased annual output in Texas of more than **\$18.3 billion** and approximately **141,400** lost job years of employment over the life of those not tested and treated.

These results will be refined in future years as additional information becomes available. This scenario is derived from an assessment of consensus estimates from numerous studies based on mortality and incidence expectations in a limited number of sites, with appropriate adjustments for other sites and morbidity effects using current patterns.¹⁰ The estimates do not include medical costs, as

¹⁰ See for example, Lum, Sharon, et al., Disruption of National Cancer Database Data Models in the First Year of the COVID-19 Pandemic, JAMA Surgery, April 12, 2023, <https://jamanetwork.com/journals/jamasurgery/fullarticle/2802991>; Negoita, Serban, et al., Annual Report to the Nation on the Status of Cancer. Part 2: Early Assessment of the COVID-19 Pandemic's Impact on Cancer Diagnosis, Cancer, August 11, 2023, <https://acsjournals.onlinelibrary.wiley.com/doi/epdf/10.1002/cncr.35026>; and Romatoski, Kelsety, et al., Delay and Disparity in Observed vs Predicted Incidence Rate of Screenable Cancer During the

there is insufficient data to determine the net effects of longer care relative to greater severity.

Benefits of Screening and Prevention

It is far less expensive to screen for cancer and treat it in its early stages. Not only

Every \$1 spent through CPRIT for screening/prevention saves \$2.52 in direct health spending and leads to a total of \$31.15 in treatment cost savings and resulting economic benefits through earlier detection.

are treatment expenses likely to be lower for early-stage diagnoses, but also morbidity and mortality losses are reduced. The Perryman Group's analysis indicates that **every \$1 spent through CPRIT for screening/prevention leads**

to \$31.15 in treatment cost savings and resulting economic benefits through earlier detection.¹¹ The Perryman Group's analysis also estimates that every \$1 spent on screening/prevention saves \$2.52 in direct health spending (these savings are included in the \$31.15 listed above).

COVID-19 Pandemic, American College of Surgeons, Vol. 237, No. 3, September 2023,
https://journals.lww.com/journalacs/abstract/2023/09000/delay_and_disparity_in_observed_vs_predicted.5.aspx.

¹¹ The reported benefits from screening and prevention are significantly higher than in some earlier years based on recent and more comprehensive research which illustrates greater rates of return on prevention and screening than prior evidence. See, for example, Boland, Mairin and Joan Murphy, The Economic Argument for Prevention of Ill-health at Population Level, For Working Group on Public Health Policy Framework, May 2012.

The Economic Impact of CPRIT and its Programs

The overall effects of CPRIT and its various initiatives extend well beyond the initial stimulus and impacts business activity throughout the supply chain. Even beyond the potentially life-changing influence of spending to reduce the incidence and severity of the disease, this investment in research, screening, and related activities generates substantial economic impacts. Moreover, the investment has the potential to reduce the cost of cancer through improving outcomes.

Returns on investments in medical research include jobs created in the private sector, health care costs saved, the value of increased longevity, the value of

The direct outlays and related “multiplier” effects emanating from CPRIT operations and programs generate a sizable increase in business activity in Texas including \$718.4 million in output (gross product) and over 8,100 jobs.

reduced morbidity and disability, and the benefits of newer medicines and therapies. Job creation occurs not only directly through the scientists and staff in the research facilities, but also indirectly through the provision of business services needed by those institutions and other multiplier effects.

Many studies over an extended period of time support the conclusion that investing in medical and cancer research can yield returns far in excess of initial outlays. Texas is already seeing tangible job gains and other benefits such as attracting top-tier research talent (including the CPRIT scholar, Dr. James Allison, who was awarded the 2018 Nobel Prize in physiology or medicine, along with Tasuku Honjo, for his work in cancer immunotherapy), external research funding, and commercialization of findings.

Benefits of CPRIT Operations and Spending

The direct outlays and related “multiplier” effects emanating from CPRIT operations and programs generate a sizable increase in business activity in Texas

including **\$718.4 million** in output (gross product) and over **8,100** jobs during fiscal year 2025.

These economic benefits stem from operations, prevention and screening, and research programs. They are consistent with the results reported by grant recipients and other data available regarding CPRIT initiatives. Fiscal benefits are also significant, as noted in the table below.

The Current Impact of CPRIT Direct Operations, Prevention and Screening, and Research Programs on Texas Business Activity and Tax Receipts (Monetary Values in Millions of Constant 2025 Dollars)				
ECONOMIC BENEFITS				
	Operations	Prevention & Screening	Research	TOTAL
Total Expenditures	\$40.6	\$131.2	\$1,206.4	\$1,378.2
Gross Product	\$20.6	\$71.5	\$626.4	\$718.4
Personal Income	\$14.1	\$50.0	\$433.9	\$498.0
Retail Sales	\$5.4	\$18.7	\$165.0	\$189.1
Employment (Jobs)	145	703	7,296	8,144
FISCAL BENEFITS				
State (Texas)	\$1.1	\$3.5	\$32.0	\$36.6
Local Governmental Entities Throughout the State	\$0.4	\$1.8	\$17.5	\$19.7
Note: Totals may not equal sum of components due to independent rounding. Source: The Perryman Group				

Secondary Benefits

Even beyond these substantial gains in business activity, CPRIT programs lead to secondary (downstream) benefits such as improved outcomes stemming from screening and prevention and research. Screening can help reduce cancer incidence and severity. TPG estimates the total annual net outcomes-related

benefits from screening and prevention supported by CPRIT to be **\$419.1 million** in output (gross product) and nearly **3,400 jobs** in 2025 including multiplier effects (on a net present value basis assuming typical outcomes from available academic studies). Effects since the inception of CPRIT programs are included in the Appendices to this report.

The economic benefits of CPRIT-funded research activity compound over time. Current estimates of these secondary effects stemming from research include almost **\$31.6 billion** in output and about **250,100 jobs** in 2025 (including multiplier effects). These gains are expected to grow substantially in future years as programs continue and benefits cumulate (as indicated in the Appendices).

The cancer research supported by CPRIT also generates social returns. The estimated cumulative social returns from the cancer research supported by CPRIT from 2010-2025 include almost **\$974.4 billion** in gross product in the United States and **\$1.2 trillion** globally. The impact on employment in the US is **7,562,626 job-years** of employment and globally is **9,303,030 job years**.¹²

Overall Total Current Impact of CPRIT Operations (including Secondary Effects)

Adding the economic benefits of CPRIT operations, prevention/screening programs, research, outcomes-based prevention/screening, and secondary research effects yield a total gross impact of the Institute's operations. The current annual total gross impact of CPRIT on Texas business activity (including multiplier effects) was found to include about **\$32.7 billion** in output, and about **261,600 jobs** in 2025. Fiscal benefits include an estimated **\$1.8 billion** to the State and **\$768.5 million** to local government entities.

¹² Social returns have been included in the last few years based on recent academic research. See, in particular, Hall, Bronwyn, Jacques Mairesse, and Pierre Mohnen; Measuring the Returns to R&D; chapter prepared for the Handbook of the Economics of Innovation, editors B.H. Hall and N. Rosenberg, December 2009; Frontier Economics, Rates of Return to Investment in Science and Innovation, report prepared for the Department for Business Innovation and Skills, July 2014.

Because of the cumulative nature of research gains, these benefits increase over time. Even when other potential uses for State funding of CPRIT are considered, the net economic benefits remain substantial (as indicated in the Appendices).

The overall total economic benefits of CPRIT operations, prevention/screening programs, research, outcomes-based prevention/screening, and secondary research effects were found to include about \$32.7 billion in output each year, and almost 261,600 jobs (including multiplier effects).

Over an extended time horizon, CPRIT and the research funding it provides will likely generate fiscal receipts totaling a multiple of the commitment of public resources (in

addition to the notable economic and health benefits). In fact, since the inception of CPRIT, estimated gross incremental taxes total approximately \$27.0 billion for the State and over \$11.6 billion for local governments.

The Overall Total Gross Annual Impact of CPRIT Operations, Prevention/Screening, and Research Programs on Texas Business Activity and Tax Receipts (Including Direct Outlays with Multiplier Effects as Well as Secondary Effects) (Monetary Values in Millions of Constant 2025 Dollars)	
ECONOMIC BENEFITS*	
Total Expenditures	\$66,784.5
Gross Product	\$32,744.4
Personal Income	\$19,664.7
Retail Sales	\$9,152.5
Employment (Jobs)	261,584
FISCAL BENEFITS	
State (Texas)	\$1,798.0
Local Governmental Entities Throughout the State	\$768.5
*Based on budgeted operations and reported awards in fiscal year 2025. Source: The Perryman Group	

Further CPRIT Benefits

The ultimate goal of CPRIT is reducing cancer incidence and the associated high human and economic costs, and a major reduction in incidence/severity would yield substantial economic benefits. In addition, the research activity supported by CPRIT can serve as a catalyst for economic development.

If CPRIT's screening/prevention programs, research advances, and other initiatives **reduce the incidence of cancer** in Texas over time to equal the average of current levels observed

in the five states with the lowest incidence and death rates, notable economic benefits would be realized.

The Perryman Group estimates that the gains in Texas stemming from a **substantial reduction in cancer incidence by 2055 would include almost \$28.8 billion in gross product and about 230,600 permanent jobs.**

Fiscal benefits of such a reduction in cancer incidence include an estimated **\$1.6 billion to the State each year and \$687.9 million to local government entities (in constant 2025 dollars).**

Moreover, these benefits do not include the obvious gains in quality of life and

Research activity associated with CPRIT is enhancing Texas' position in a number of related industries.

would not be restricted to Texas; they would bring better outcomes throughout the country and, indeed, the entire world.

Research activity associated with CPRIT is enhancing Texas' position in a number of related industries. Since 2010, CPRIT has funded 2,148 awards for cancer research, product development, and prevention with the awards totaling

\$3,902,086,112.¹³ CPRIT has enjoyed a number of successes, and its programs and grants are helping attract key researchers and companies to Texas. As mentioned previously, CPRIT scholars have received numerous prestigious awards including the 2018 Nobel Prize in physiology or medicine awarded to Dr. James Allison, (along with Tasuku Honjo) for his work in cancer immunotherapy. In September 2020, multiple CPRIT award recipient Dr. Zhijian “James” Chen received the 2020 William B. Coley Award for Distinguished Research in Basic and Tumor Immunology from the Cancer Research Institute. CPRIT’s investments have played a critical role in connecting universities, researchers, private companies, hospitals, clinics, and physicians across Texas in the battle against cancer. CPRIT has recruited 340 cancer researchers and their labs to Texas. CPRIT’s efforts have resulted in 374 new clinical studies with more than 63,500 patients enrolled through CPRIT programs. CPRIT has delivered 10.9 million

If Texas achieves a concentration in the biomedical industry (pharmaceuticals and medical equipment) by 2055 equivalent to that of the US, incremental gains would include almost \$61.3 billion in annual gross product and 325,000 jobs.

prevention services to Texans from every county in the state. CPRIT-funded academic grantees and companies have raised \$11.602 billion in non-state follow-on funding above contract awards. In addition to helping save lives, these grants have the potential to

generate significant returns to CPRIT as well. CPRIT has funded research projects which have resulted in over 1,149 publications and 36 patents filed and 8 granted in the 2025 fiscal year.¹⁴

The Institute’s role as a potential catalyst for development of Texas’ biomedical industries is helping to establish the Lone Star State as a center for such development. The economic gains from this type of economic development have been and will continue to be significant. The Perryman Group estimates that if Texas achieves a concentration in the biomedical industry (pharmaceuticals and medical equipment) by 2055 equivalent to that of the US, incremental gains would include almost \$61.3 billion in annual gross product and 325,000 jobs. If the state’s concentration in the biomedical industry in 2055 reached a level

¹³ Grants Funded, Cancer Prevention & Research Institute of Texas website, <https://www.cprit.state.tx.us/grants-funded>, accessed October 14, 2025.

¹⁴ Our Impact, Cancer Prevention & Research Institute of Texas website, <https://www.cprit.state.tx.us/our-programs/our-impact#>, accessed October 14, 2025; and CPRIT personnel.

equivalent to California, the incremental economic benefits would include \$72.6 billion in gross product each year and more than 378,000 jobs.

It is worthy of note that, since 2010, Texas has seen growth in bioscience manufacturing employment of about 49.1%. The pace is far in excess of that of the United States (15.5%) and states that have traditionally been major centers of such activity. Expansion in competing states is far lower, including North Carolina (18.6%), Illinois (17.8%), Georgia (11.8%), California (7.7%), Ohio (5.5%), Massachusetts (2.8%), and Pennsylvania (-7.1%). While there are other factors that support the success in Texas, the investments and programs supported by CPRIT are a major differentiating factor. This performance and the success of CPRIT were significant factors in the selection of Texas as a major hub for the new Advanced Research Projects Agency for Health (ARPA-H) initiative in 2023.

A Broader Perspective

Scientific research, as is facilitated by CPRIT, is valuable to society in large part due to the benefits that it facilitates downstream and how it produces further research leading to additional advances.¹⁵ In traditional infrastructure such as

Scientific research, as is facilitated by CPRIT, is valuable to society in large part due to the benefits that it facilitates downstream.

roads, highways, water systems, and schools, the government typically plays a major role as provider, coordinator, or regulator.

Scientific research, specifically

cancer research, is much like traditional infrastructure because it creates benefits or value primarily from downstream uses and “contributes significantly to economic growth and social welfare.”¹⁶

Because of its inherent nature as infrastructure, cancer research and prevention should be funded and supported in a manner similar to that of traditional infrastructure. It is in essence a public good that benefits everyone in society although some of the specific benefits might not occur until well in the future.

¹⁵ See for example, Frischman, Brett, “An Economic Theory of Infrastructure and Commons Management,” American Law & Economics Association Annual Meetings, 2006.

¹⁶ Frischman, Brett, “An Economic Theory of Infrastructure and Commons Management,” American Law & Economics Association Annual Meetings, 2006 p. 993.

Conclusion

The Cancer Prevention and Research Institute of Texas plays a crucial role in the war on cancer. Through its operations, screening/prevention efforts, and research programs, CPRIT is helping reduce the extremely high human and economic costs of cancer. CPRIT is also

generating a sizable economic stimulus from all of its efforts including almost **\$32.7 billion** in annual output (gross product) and **261,600** jobs in 2025 (when multiplier and secondary effects are included). Moreover, the

Institute's efforts to improve outcomes related to cancer prevention and treatment can lead to a significant reduction in cancer incidence and severity over time and be a catalyst to biomedical development in Texas.

CPRIT efforts improve outcomes related to cancer prevention and treatment, leading to a significant reduction in cancer incidence and severity over time. The Institute is also a catalyst to biomedical development in Texas.

The Institute's positive impact represents an excellent return on fiscal resources. Research enabled by grants funded through CPRIT is bearing fruit, with leading

Basic medical research is part of society's essential infrastructure, and CPRIT has demonstrated capacity to enhance the health of Texans and the economy at a pace that far exceeds the direct investment.

researchers as well as companies coming to the state, matching funds being attracted, and findings being published in leading journals. Empirical evidence shows that medical research and prevention programs can reduce cancer incidence and

enhance outcomes. Reductions in treatment expenses, morbidity, and mortality stand to bring notable economic benefits.

The economic activity stemming from CPRIT operations and programs generates tax receipts and reduced State expenditures for health care over time which exceed the investment of resources. The significance of CPRIT activities continues to expand and will only accelerate in the future now that its mission has been extended. **Basic medical research is a part of society's essential**

infrastructure, and CPRIT has demonstrated the capacity to enhance the health of Texans and the economy at a pace that far exceeds the direct investment.