

Sharing our Results with Texans

Model of a Proposed



Comparative Effectiveness Research on Cancer in Texas (CERCIT) is a statewide resource for outcomes and comparative effectiveness research funded by [The Cancer Prevention Research Institute of Texas \(CPRIT\)](#), RP101207

Query Tool

WHAT IS COMPARATIVE EFFECTIVENESS RESEARCH?

Comparative Effectiveness Research, also called patient-centered outcomes research, is a new kind of Translational Research, dedicated to translating what we find out through research into better care and greater health for all Americans. CER is a fast growing area of investigation that seeks to compare different kinds of treatment to see which works better (is more effective) and is the most cost-effective.

WHY IS IT NEEDED?

In medicine, one size does not fit all. People respond differently to the same drug or therapy; this is why doctors treat different patients differently, using their skill and judgment as well as their knowledge. Also, we do not always know what works best in all situations, even in cases where a certain test, drug or therapy is recommended. For these areas, comparative effectiveness research can help.

HOW DO WE DO IT?

We take records of millions of anonymous patient encounters in Texas. Before we receive them, these records are stripped of all personal information like name or address or any other information through which an individual patient might be identified. By analyzing these records, we can see what happens six months or a year or two years after different treatments, and see which works better for different populations.

MORE ON COMPARATIVE EFFECTIVENESS RESEARCH

[What is Comparative Effectiveness Research?](#)

[Focus on Health Reform: What is Comparative Effectiveness Research?](#)

[Clinical & Translational Science Awards: Translating Discoveries to Medical Practice CER Key Function](#)

[Federal Coordinating Council for Comparative Effectiveness Research](#)

[AHRQ Effective Healthcare Program: Helping You Make Better Treatment Choices](#)

[Health Policy Brief on Comparative Effectiveness Research](#)

[Congressional Budget Office report on the Comparative Effectiveness of Medical Treatments](#)

NEW SCREENING INFORMATION FOR TEXAS:

[Mammography](#)
[Colonoscopy](#)

What's New/Upc

CERCIT Scholars Receive National Recognition! Mariana Chavez Mac Gregor, MD (mentor: Dr. Sharon Giordano) won the Best Clinical Researcher award from the Medical Oncology fellowship program. Jaime Benarroch-gampel, MD (mentor Dr. Taylor Riall) First place at the Singleton Surgical Society Casey Boyd, MD (mentor Dr. Taylor Riall) second place at the Singleton Surgical Society

CPRIT 2nd Annual Innovations in Cancer Prevention and Research Conference November 15-17, 2011 Austin Convention Center, Austin, TX [More..](#)

Upcoming CERCIT Workshop Schedule [More..](#)

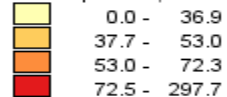
Manuscript Acknowledgement: This work was supported [in part] by the Comparative Effectiveness Research on Cancer in Texas (CERCIT) Grant #RP101207, funded by The Cancer Prevention Research Institute of Texas (CPRIT).

Age-Adjusted Invasive Cancer Incidence Rates in Texas Male Colon and Rectum, --Hispanic White, 2004-2008 By County

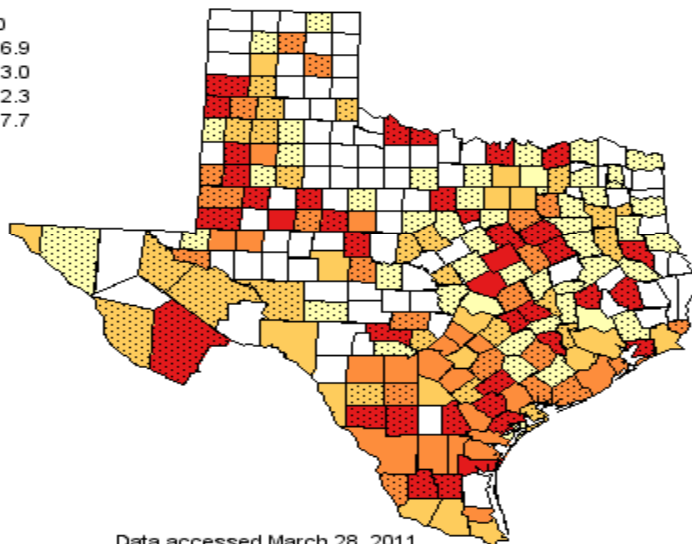
Age-Adjusted to the 2000 U.S. Standard Population

Texas Rate: 50.6

Rate per 100,000



Unstable Risk Population less than 1000



Data accessed March 28, 2011.
Cancer Incidence File, November 2010.
Copyright (C) 2011 Texas Cancer Registry

STATE DATA

VIEW ALL



Texas Cancer Registry



Specify the criteria for map display and click Redraw Button.

Data Source: **Invasive Cancer Incidence**

Geography: **County**

Cancer Site: **--Colon and Rectum**

Years: Starting **2004** Ending **2008**

Sex: **Male**

Race/Ethnicity: **--Hispanic White**

Standard: **2000 U.S. Standard Population**

Confidence Intervals: **On**

<http://www.cancer-rates.info/tx/index.php>



Site Comparison. Opens in a new window.

Invasive Cancer Incidence Rates in Texas							
Male Colon and Rectum, --Hispanic White, 2004-2008							
Year	2004	2005	2006	2007	2008	2004-2008	
Population at Risk	3830998	3955092	4091881	4234656	4380910	20493537	
Total Cases	993	965	1027	960	1035	4980	
Crude Rate	25.9	24.4	25.1	22.7	23.6	24.3	
Age-Adjusted Rate	56.8	51.4	52.9	46.4	46.9	50.6	
95% Confidence Interval	Lower	53.1	48.0	49.5	43.3	43.9	49.1
	Upper	60.8	55.0	56.5	49.6	50.1	52.1
Note: All rates are per 100,000. Rates are age-adjusted to the 2000 U.S. Standard Population.							
Data accessed March 28, 2011. Cancer Incidence File, November 2010.							
Veterans Health Administration hospitals did not report cancer cases to the Texas Cancer Registry (TCR) for all of 2008. Therefore, case counts and incidence rates in 2008 are underestimated and should be interpreted with caution.							



- Home
- About Us
- Projects
- Cores
- Training v
- Contact Us

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Met guidelines for Screening

State
County
Public Health Service Region (H.S.R.)
Hospital Service Area (H.S.A.)
Hospital Referral Region (H.R.R.)

All ** For select care type**
Breast
Colon-Rectum
Lung
Non-Hodgkin's Lymphoma
Pancreas
Prostate

Header

[Data Source:](#) Screening

[Geography:](#) State

[Cancer Site:](#) Prostate

[Year:](#) Starting 2001 Ending 2006

[Sex:](#) Female

[Race/Ethnicity:](#)

ReDraw

Drop Filter Fields Here

- All
- White
- Black
- Hispanic
- Other

Datasets Behind the Query Tool

- screening
 - cancer care
 - population data
- 1 dataset**

HOW?

Each investigator

- Submits their data
- Resubmit Every six months

Analyst at UTMB

- Downloads the files
- Creates the datasets for the Query Tool
- Refreshes the datasets every 6 months

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	
1					blank if dx=0																
2	id	site	sex	screen	surveil- lance	treatment	support care	FIPS_ County	Public Health Region	hrnum	hrrcity	hrr state	hsanum	hsacity	has state	RACE	year	agrp	dx		
3	126	3	0	0				48217	7	418	Waco	TX	45129	Hillsboro	TX	W	2005	1	0		
4	178	1	0	0				48439	3	394	Fort Worth	TX	45095	Fort Worth	TX	B	2002	1	0		
5	193	3	1	1	0	1		48375	1	383	Amarillo	TX	45006	Amarillo	TX	W	2005	2	1		
6	345	3	0	1				48039	6	397	Houston	TX	45152	Lake Jackson	TX	W	2007	1	0		
7	355	6	1	0	0	1	0	48215	11	402	McAllen	TX	45175	McAllen	TX	W	2007	2	1		
8	497	2	0	0	0	1	1	48187	8	412	San Antonio	TX	45229	San Antonio	TX	W	2006	2	1		
9	579	6	1	1				48001	4	416	Tyler	TX	45260	Tyler	TX	W	2004	1	0		
10	873	6	1	1	0	0	1	48441	2	382	Abilene	TX	45001	Abilene	TX	W	2005	2	1		
11	895	6	1	0				48021	7	385	Austin	TX	45016	Austin	TX	W	2007	1	0		
12	1191	3	0	0				48303	1	400	Lubbock	TX	45168	Lubbock	TX	W	2004	1	0		
13	1382	1	0	1	0	1	1	48113	3	391	Dallas	TX	45136	Iring	TX	W	2007	2	1		
14	1464	5	1	0				48029	8	412	San Antonio	TX	45229	San Antonio	TX	W	2004	1	0		
15	1477	2	0	0	0	1	0	48409	11	390	Corpus Christi	TX	45061	Corpus Christi	TX	W	2000	2	1		
16	1498	2	1	1				48361	5	386	Beaumont	TX	45021	Beaumont	TX	W	2006	1	0		
17	1749	2	0	1	0	1	0	48085	3	391	Dallas	TX	45211	Plano	TX	W	2002	2	1		
18	2384	1	0	0				48409	11	390	Corpus Christi	TX	45011	Aransas Pass	TX	H	2004	1	0		
19	2535	1	0	0	0	0	0	48355	11	390	Corpus Christi	TX	45061	Corpus Christi	TX	W	2004	2	1		
20	2805	2	0	0	1	1	0	48113	3	391	Dallas	TX	45068	Dallas	TX	W	2006	2	1		
21	2838	4	0	0				48423	4	416	Tyler	TX	45260	Tyler	TX	W	2007	1	0		
22	2917	1	0	1	1	0	1	48355	11	390	Corpus Christi	TX	45061	Corpus Christi	TX	W	2001	2	1		
23	2943	6	1	0	1	1	1	48201	6	397	Houston	TX	45257	Tomball	TX	O	2002	2	1		
24	3267	4	1	1				48293	7	418	Waco	TX	45180	Mexia	TX	W	2007	2	1		
25	3398	3	1	1	0	1		48499	4	416	Tyler	TX	45260	Tyler	TX	W	2005	2	1		
26	3401	4	0	1			0	48455	5	397	Houston	TX	45258	Trinity	TX	W	2001	2	1		
27	3404	6	1	1	0	0	1	48273	11	390	Corpus Christi	TX	45149	Kinnsville	TX	W	2004	2	1		



Comparative Effectiveness Research
on Cancer in Texas

Home

About Us

Projects

Cores

Training ▾

Contact Us

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Header

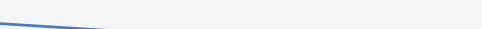
[Data Source:](#)



[Geography:](#)



[Cancer Site:](#)



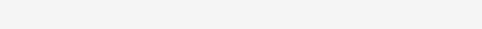
[Year:](#)

[Starting](#)

[Ending](#)



[Sex:](#)



[Race/Ethnicity:](#)



ReDraw

Screening

State

All ***

2000

2007

Both

All

State Data

year <input type="text" value="Δ"/> <input type="text" value="▼"/>	Breast(1)	Colon(2)	Lung(3)	NHL(4)	Pancreas(5)	Prostate(6)	Grand Total
2000	1324	781	0	0	0	1353	3458
2001	1548	883	0	0	0	1506	3937
2002	1706	945	0	0	0	1568	4219
2003	1720	972	0	0	0	1673	4365
2004	1702	1013	0	0	0	1645	4360
2005	1729	1060	0	0	0	1737	4526
2006	1725	1023	0	0	0	1762	4510
2007	1713	1041	0	0	0	1756	4510
Grand Total	13167	7718	0	0	0	13000	33885

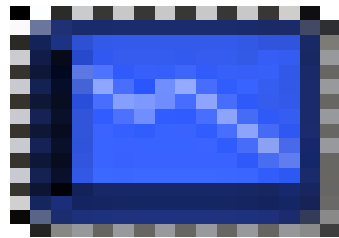
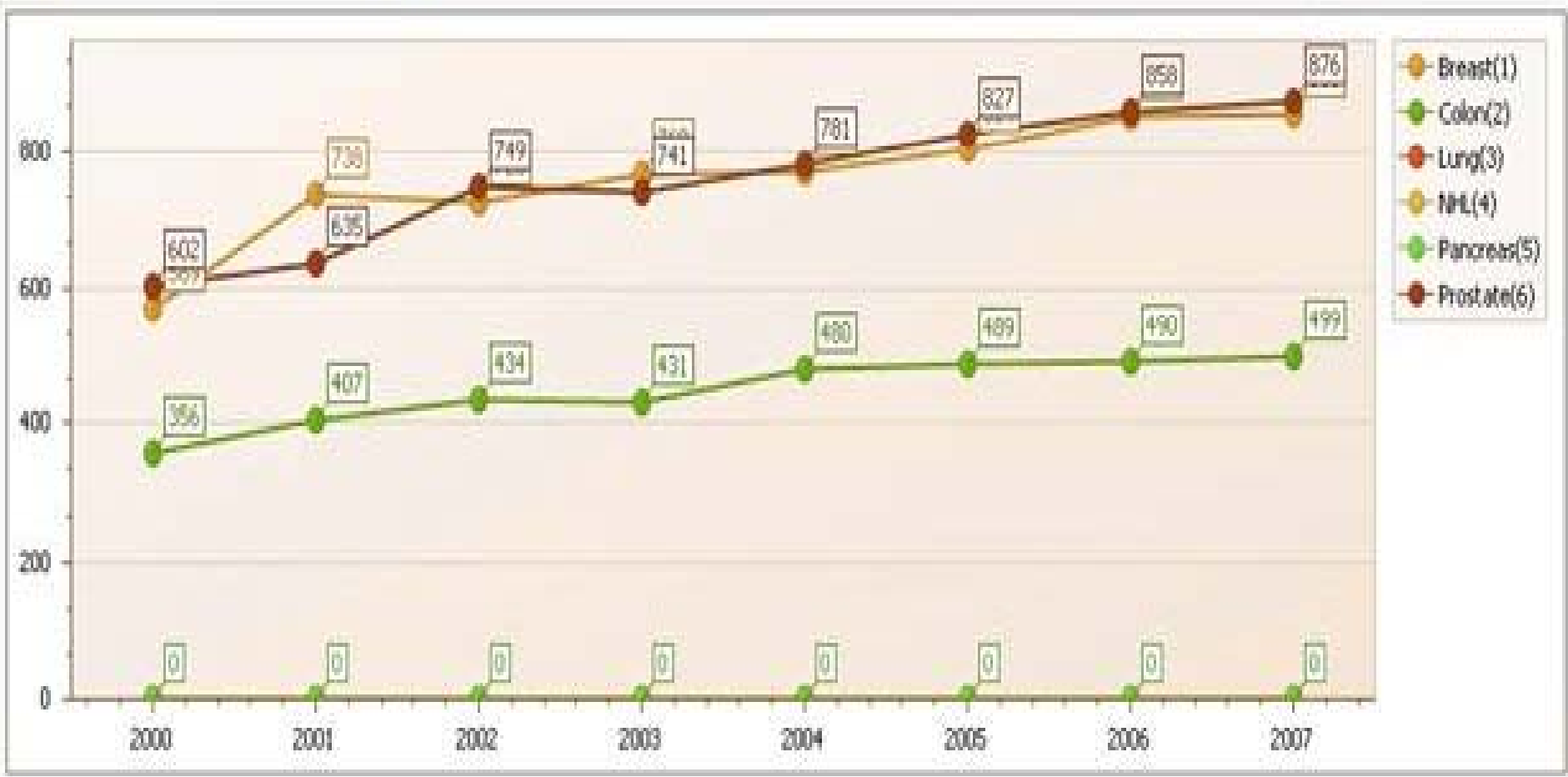


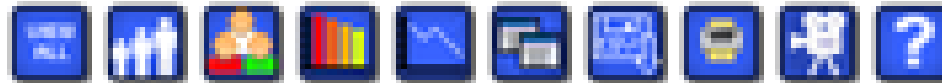
Chart Type: Line



Examples

**Using TCR table
structure**

State Data



Invasive Cancer Incidence Rates in Texas

All Sites, 2004-2008

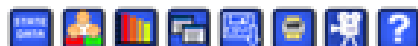
Year	2004	2005	2006	2007	2008	2004-2008	
Population at Risk	22418319	22798770	23369024	23837701	24304290	116728104	
Total Cases	88143	89292	92302	95607	93863	459207	
Crude Rate	393.2	391.6	395.0	401.1	386.2	393.4	
Age-Adjusted Rate	454.8	448.2	447.9	450.4	428.9	445.8	
95% Confidence Interval	Lower	451.8	445.3	445.0	447.6	428.2	444.5
	Upper	457.8	451.2	450.8	453.3	431.7	447.1

Note: All rates are per 100,000. Rates are age-adjusted to the 2000 U.S. Standard Population.

Data accessed August 18, 2011. Cancer Incidence File, November 2010.

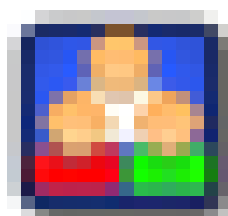
Various Health Administration hospitals did not report cancer cases to the Texas Cancer Registry (TCR) for all of 2009. Therefore, case counts and incidence rates in 2009 are underestimated and should be interpreted with caution.

View All



Click a column header to sort. Click the region name for more detailed information.
 Sorting by County will sort the bar graph by County, otherwise the bar graph will be sorted by age-adjusted rate.

Invasive Cancer Incidence Rates by County in Texas						
All Sites, 2004-2008						
County ▼	Population at Risk	Cases	Crude Rate	Age-adjusted Rate	95% Confidence Interval	
					Lower Limit	Upper Limit
Anderson	281448	1187	421.8	423.7	404.6	454.1
Andrews	65211	310	475.4	470.2	419.0	526.7
Appelina	409575	2298	561.1	531.2	509.6	553.6
Aransas	121417	869	715.7	463.1	431.4	497.5
Archer	44753	192	429.0	367.6	333.8	449.4
Armstrong	10454	61	583.5	442.0	331.5	587.6
Atascosa	215065	867	403.1	412.6	385.3	441.3
Austin	131107	686	523.2	442.8	409.9	478.2
Bailey	32084	162	504.9	456.7	388.2	535.9
Bandera	99417	566	569.3	425.4	389.7	464.5
Bastrop	352323	1549	439.6	454.9	432.0	478.7
Baylor	19202	143	744.7	484.5	403.3	584.4
Bee	162214	482	297.1	343.4	313.2	375.7
Bell	1347714	5395	400.3	502.6	489.1	516.3
Bexar	7760099	29908	385.4	432.4	427.5	437.4
Blanco	44843	238	530.7	494.4	430.0	567.4
Bosque	88667	520	586.3	404.7	369.6	443.5
Bowie	454895	2189	481.2	445.2	426.6	464.4
Brazoria	1420192	5668	399.1	467.8	455.4	480.5
Brazos	838098	2467	294.4	458.7	440.6	477.5
Brewster	45782	194	423.8	378.4	326.1	438.4
Briscoe	7788	46	590.6	404.5	292.3	565.9



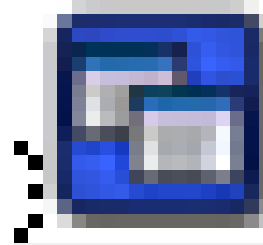
[Back](#)



Texas Populations by Health Service Region Total Male Population 2004-2008

Health Service Region	2004	2005	2006	2007	2008	2004-2008
HSR 01	393549	394862	397185	399303	401204	1986103
HSR 02	269619	268803	269037	267898	267463	1342820
HSR 03	3018339	3087431	3182049	3265940	3343929	15897688
HSR 04	520134	524248	530555	534862	538802	2648601
HSR 05	370492	369280	367913	370439	372126	1850244
HSR 06	2668681	2726413	2816869	2875032	2942750	14029745
HSR 07	1273626	1303729	1343176	1386903	1427074	6734508
HSR 08	1119460	1137900	1166008	1193207	1218209	5834684
HSR 09	258943	259665	262456	265874	270179	1317117
HSR 10	350292	353144	358964	362449	367926	1792775
HSR 11	916761	934086	949092	963456	980066	4743461
Total	11168888	11369461	11843304	11886367	12128728	68177748

Data accessed August 12, 2011. Cancer Incidence File, November 2010.



Internet Explorer window showing a web page from <http://www.cancer-rates.info/>. The address bar shows the URL http://www.cancer-rates.info/common/reg_prc.

The page content includes a "State Profile" section for Texas, with a note: "Site, Cases and Age-adjusted Rate are sortable." Below this is a table titled "Invasive Cancer Incidence Rates in Texas" for "Male, All Races, 2004-2008".

Site	Population at Risk	Total Cases	Crude Rate	Age-adjusted Rate	95% Confidence Interval	
					Lower Limit	Upper Limit
All Sites	58177746	241003	414.2	528.5	526.3	530.6
Prostate	58177746	84845	110.9	142.1	141.0	143.3
Lung and Bronchus	58177746	35997	61.9	82.5	81.7	83.4
Colon & Rectum	58177746	24554	42.2	54.4	53.7	55.1
Urinary Bladder	58177746	12331	21.2	29.3	28.8	29.9
Miscellaneous	58177746	10457	18.0	24.2	23.7	24.7
Kidney and Renal Pelvis	58177746	10689	18.4	22.4	22.0	22.9
Non-Hodgkin Lymphoma	58177746	10314	17.7	22.3	21.9	22.8
Melanoma of the Skin	58177746	8478	14.6	18.2	17.8	18.6
Liver and Intrahepatic Bile Duct	58177746	6334	10.9	13.1	12.7	13.4
Pancreas	58177746	5705	9.8	12.8	12.5	13.2
Stomach	58177746	4312	7.4	9.6	9.3	9.9
Lymphocytic Leukemia	58177746	4076	7.0	8.7	8.4	9.0

The status bar at the bottom shows "Internet | Protected Mode:" and a zoom level of "50%".

Discuss

- Useful?
- Worth the effort?
- **SUGGESTIONS**