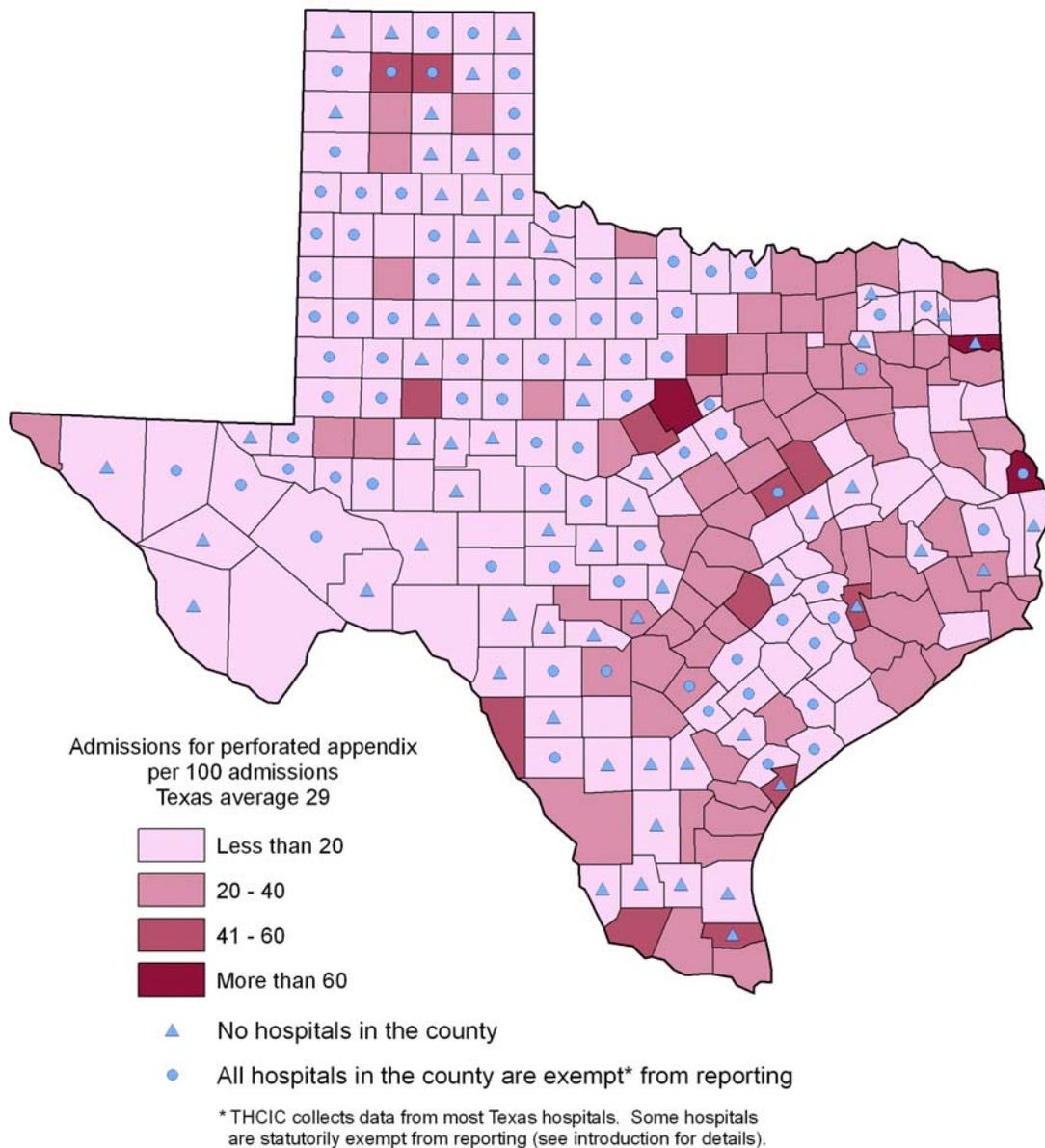


## 4. Perforated Appendix

The inside of the appendix forms a *cul-de-sac* that usually opens into the large intestine. When the inside of the appendix is blocked—by a piece of stool, a foreign body that was swallowed, or the swelling from an infection—the appendix becomes swollen and easily infected by bacteria. If the infected appendix is not removed, an abscess may form and eventually burst or perforate. This may happen as soon as 48 to 72 hours after symptoms begin. A perforated appendix can spread its infection throughout the abdomen and thus become life threatening. Problems in access to ambulatory care and misdiagnosis are among the factors that lead to this complication.



Source: Department of State Health Services, Center for Health Statistics. *Texas Hospital Inpatient Discharge Public Use Data File, 2005.*

## Table 4. Perforated Appendix Admission Rate

Includes data from most Texas hospitals. Some hospitals are statutorily exempt from reporting to Department of State Health Services.

County	Admissions	Admissions for Appendicitis	Observed Admissions per 100 Admissions for Appendicitis	Expected Admissions per 100 Admissions for Appendicitis	Risk-Adjusted Admissions per 100 Admissions for Appendicitis	99% Confidence Interval for Risk-Adjusted Admissions
State Total	4,083	14,080	29.00	30.14	29.37	
Anderson	14	56	25.00	30.70	24.85	(13.09, 36.61)
Andrews	Less Than 5					
Angelina	Less Than 5					
Aransas	5	12	41.67	30.24	42.05	(16.45, 67.66)
Archer	Less Than 5					
Armstrong	Less Than 5					
Atascosa	7	27	25.93	28.64	27.63	(9.58, 45.68)
Austin	Less Than 5					
Bailey	Less Than 5					
Bandera	Less Than 5					
Bastrop	18	34	52.94	31.67	51.03**	(36.26, 65.79)
Baylor	Less Than 5					
Bee	8	21	38.10	30.00	38.76	(19.09, 58.43)
Bell	38	122	31.15	31.66	30.03	(22.27, 37.79)
Bexar	300	1,005	29.85	29.70	30.68	(27.82, 33.54)
Blanco	Less Than 5					
Borden	Less Than 5					
Bosque	Less Than 5					
Bowie	13	51	25.49	32.86	23.67	(12.04, 35.31)
Brazoria	58	221	26.24	30.08	26.63	(20.58, 32.68)
Brazos	21	111	18.92	28.42	20.32*	(11.38, 29.26)
Brewster	Less Than 5					
Briscoe	Less Than 5					
Brooks	Less Than 5					
Brown	9	35	25.71	32.51	24.14	(10.00, 38.28)
Burleson	Less Than 5					
Burnet	7	19	36.84	34.25	32.84	(14.41, 51.26)
Caldwell	5	25	20.00	27.35	22.32	(2.83, 41.80)
Calhoun	Less Than 5					
Callahan	Less Than 5					
Cameron	57	175	32.57	30.70	32.39	(25.72, 39.05)
Camp	Less Than 5					
Carson	Less Than 5					
Cass	Less Than 5					
Castro	Less Than 5					
Chambers	Less Than 5					
Cherokee	Less Than 5					
Childress	Less Than 5					
Clay	Less Than 5					
Cochran	Less Than 5					
Coke	Less Than 5					
Coleman	Less Than 5					
Collin	132	433	30.48	29.00	32.09	(27.63, 36.54)
Collingsworth	Less Than 5					
Colorado	Less Than 5					
Comal	21	79	26.58	32.51	24.95	(15.54, 34.37)

\* Risk adjusted admission rate is significantly LOWER (based on 99% confidence interval) than Texas average.

\*\* Risk adjusted admission rate is significantly HIGHER (based on 99% confidence interval) than Texas average.

**Table 4. Perforated Appendix Admission Rate (cont'd)**

County	Admissions	Admissions for Appendicitis	Observed Admissions per 100 Admissions for Appendicitis	Expected Admissions per 100 Admissions for Appendicitis	Risk-Adjusted Admissions per 100 Admissions for Appendicitis	99% Confidence Interval for Risk-Adjusted Admissions
State Total	4,083	14,080	29.00	30.14	29.37	
Comanche	6	10	60.00	34.81	52.61	(27.53, 77.69)
Concho	Less Than 5					
Cooke	Less Than 5					
Coryell	6	22	27.27	31.43	26.48	(8.05, 44.91)
Cottle	Less Than 5					
Crane	Less Than 5					
Crockett	Less Than 5					
Crosby	Less Than 5					
Culberson	Less Than 5					
Dallam	Less Than 5					
Dallas	439	1,388	31.63	30.13	32.04**	(29.64, 34.45)
Dawson	Less Than 5					
Deaf Smith	Less Than 5					
Delta	Less Than 5					
Denton	91	373	24.40	29.01	25.67	(20.87, 30.47)
De Witt	Less Than 5					
Dickens	Less Than 5					
Dimmit	Less Than 5					
Donley	Less Than 5					
Duval	Less Than 5					
Eastland	Less Than 5					
Ector	20	56	35.71	30.61	35.61	(23.82, 47.40)
Edwards	Less Than 5					
Ellis	23	89	25.84	29.47	26.76	(17.07, 36.45)
El Paso	146	406	35.96	30.78	35.66**	(31.30, 40.03)
Erath	9	13	69.23	32.57	64.87**	(41.78, 87.97)
Falls	6	11	54.55	34.14	48.76	(24.49, 73.03)
Fannin	5	22	22.73	31.37	22.11	(3.70, 40.53)
Fayette	Less Than 5					
Fisher	Less Than 5					
Floyd	Less Than 5					
Foard	Less Than 5					
Fort Bend	68	276	24.64	29.47	25.52	(20.02, 31.01)
Franklin	Less Than 5					
Freestone	Less Than 5					
Frio	Less Than 5					
Gaines	Less Than 5					
Galveston	52	216	24.07	30.18	24.35	(18.26, 30.44)
Garza	Less Than 5					
Gillespie	Less Than 5					
Glasscock	Less Than 5					
Goliad	Less Than 5					
Gonzales	Less Than 5					
Gray	5	15	33.33	29.66	34.30	(10.86, 57.74)
Grayson	33	93	35.48	29.57	36.63	(27.22, 46.04)
Gregg	30	104	28.85	31.53	27.93	(19.47, 36.38)

\* Risk adjusted admission rate is significantly LOWER (based on 99% confidence interval) than Texas average.

\*\* Risk adjusted admission rate is significantly HIGHER (based on 99% confidence interval) than Texas average.

**Table 4. Perforated Appendix Admission Rate (cont'd)**

County	Admissions	Admissions for Appendicitis	Observed Admissions per 100 Admissions for Appendicitis	Expected Admissions per 100 Admissions for Appendicitis	Risk-Adjusted Admissions per 100 Admissions for Appendicitis	99% Confidence Interval for Risk-Adjusted Admissions
State Total	4,083	14,080	29.00	30.14	29.37	
Grimes	5	13	38.46	29.60	39.66	(14.44, 64.88)
Guadalupe	17	65	26.15	32.08	24.89	(14.37, 35.41)
Hale	Less Than 5					
Hall	Less Than 5					
Hamilton	Less Than 5					
Hansford	Less Than 5					
Hardeman	Less Than 5					
Hardin	8	28	28.57	31.83	27.40	(11.15, 43.64)
Harris	715	2,586	27.65	29.56	28.55	(26.76, 30.35)
Harrison	6	23	26.09	32.74	24.32	(6.95, 41.68)
Hartley	Less Than 5					
Haskell	Less Than 5					
Hays	27	86	31.40	29.67	32.29	(22.48, 42.10)
Hemphill	Less Than 5					
Henderson	15	46	32.61	32.05	31.06	(18.51, 43.60)
Hidalgo	91	340	26.76	30.44	26.83	(22.02, 31.65)
Hill	10	31	32.26	34.81	28.29	(14.12, 42.45)
Hockley	Less Than 5					
Hood	6	24	25.00	31.16	24.49	(6.66, 42.31)
Hopkins	Less Than 5					
Houston	Less Than 5					
Howard	10	19	52.63	30.24	53.13**	(32.58, 73.67)
Hudspeth	Less Than 5					
Hunt	12	37	32.43	29.30	33.78	(18.63, 48.94)
Hutchinson	5	11	45.45	33.60	41.29	(16.78, 65.80)
Irion	Less Than 5					
Jack	Less Than 5					
Jackson	Less Than 5					
Jasper	Less Than 5					
Jeff Davis	Less Than 5					
Jefferson	33	127	25.98	30.09	26.36	(18.40, 34.33)
Jim Hogg	Less Than 5					
Jim Wells	8	33	24.24	31.07	23.82	(8.72, 38.91)
Johnson	35	115	30.43	30.16	30.80	(22.45, 39.14)
Jones	Less Than 5					
Karnes	Less Than 5					
Kaufman	19	75	25.33	31.41	24.61	(14.66, 34.57)
Kendall	7	19	36.84	35.29	31.86	(14.02, 49.70)
Kenedy	Less Than 5					
Kent	Less Than 5					
Kerr	14	33	42.42	34.16	37.90	(23.97, 51.83)
Kimble	Less Than 5					
King	Less Than 5					
Kinney	Less Than 5					
Kleberg	5	18	27.78	29.21	29.03	(7.21, 50.85)
Knox	Less Than 5					

\* Risk adjusted admission rate is significantly LOWER (based on 99% confidence interval) than Texas average.

\*\* Risk adjusted admission rate is significantly HIGHER (based on 99% confidence interval) than Texas average.

**Table 4. Perforated Appendix Admission Rate (cont'd)**

County	Admissions	Admissions for Appendicitis	Observed Admissions per 100 Admissions for Appendicitis	Expected Admissions per 100 Admissions for Appendicitis	Risk-Adjusted Admissions per 100 Admissions for Appendicitis	99% Confidence Interval for Risk-Adjusted Admissions
State Total	4,083	14,080	29.00	30.14	29.37	
Lamar	9	33	27.27	28.98	28.73	(12.58, 44.88)
Lamb	Less Than 5					
Lampasas	Less Than 5					
La Salle	Less Than 5					
Lavaca	Less Than 5					
Lee	Less Than 5					
Leon	Less Than 5					
Liberty	14	44	31.82	29.94	32.44	(18.83, 46.05)
Limestone	5	13	38.46	29.14	40.29	(14.80, 65.78)
Lipscomb	Less Than 5					
Live Oak	Less Than 5					
Llano	Less Than 5					
Loving	Less Than 5					
Lubbock	50	144	34.72	30.70	34.52	(27.17, 41.88)
Lynn	Less Than 5					
McCulloch	Less Than 5					
McClennan	39	166	23.49	31.35	22.87	(16.15, 29.59)
McMullen	Less Than 5					
Madison	Less Than 5					
Marion	5	6	83.33	35.25	72.15**	(40.18, 100.0)
Martin	Less Than 5					
Mason	Less Than 5					
Matagorda	Less Than 5					
Maverick	10	21	47.62	33.67	43.17	(25.49, 60.84)
Medina	5	17	29.41	29.16	30.78	(8.51, 53.05)
Menard	Less Than 5					
Midland	18	71	25.35	29.62	26.12	(15.30, 36.94)
Milam	Less Than 5					
Mills	Less Than 5					
Mitchell	Less Than 5					
Montague	Less Than 5					
Montgomery	58	296	19.59	29.73	20.12	(14.86, 25.38)
Moore	6	11	54.55	29.53	56.38	(29.03, 83.74)
Morris	Less Than 5					
Motley	Less Than 5					
Nacogdoches	13	44	29.55	29.09	31.00	(17.08, 44.92)
Navarro	7	19	36.84	32.55	34.55	(15.32, 53.78)
Newton	Less Than 5					
Nolan	Less Than 5					
Nueces	78	224	34.82	31.33	33.92	(28.14, 39.70)
Ochiltree	Less Than 5					
Oldham	Less Than 5					
Orange	14	45	31.11	30.27	31.37	(18.11, 44.63)
Palo Pinto	Less Than 5					
Panola	Less Than 5					
Parker	24	64	37.50	28.51	40.15	(28.41, 51.90)

\* Risk adjusted admission rate is significantly LOWER (based on 99% confidence interval) than Texas average.

\*\* Risk adjusted admission rate is significantly HIGHER (based on 99% confidence interval) than Texas average.

**Table 4. Perforated Appendix Admission Rate (cont'd)**

County	Admissions	Admissions for Appendicitis	Observed Admissions per 100 Admissions for Appendicitis	Expected Admissions per 100 Admissions for Appendicitis	Risk-Adjusted Admissions per 100 Admissions for Appendicitis	99% Confidence Interval for Risk-Adjusted Admissions
State Total	4,083	14,080	29.00	30.14	29.37	
Parmer	Less Than 5					
Pecos	Less Than 5					
Polk	8	31	25.81	32.83	23.99	(9.12, 38.87)
Potter	27	85	31.76	30.42	31.87	(22.20, 41.54)
Presidio	Less Than 5					
Rains	Less Than 5					
Randall	27	77	35.06	30.00	35.67	(25.42, 45.93)
Reagan	Less Than 5					
Real	Less Than 5					
Red River	Less Than 5					
Reeves	Less Than 5					
Refugio	Less Than 5					
Roberts	Less Than 5					
Robertson	Less Than 5					
Rockwall	Less Than 5					
Runnels	Less Than 5					
Rusk	Less Than 5					
Sabine	5	7	71.43	28.06	77.68**	(41.50, 100.0)
San Augustine	Less Than 5					
San Jacinto	Less Than 5					
San Patricio	15	51	29.41	33.18	27.05	(15.51, 38.59)
San Saba	Less Than 5					
Schleicher	Less Than 5					
Scurry	Less Than 5					
Shackelford	Less Than 5					
Shelby	5	16	31.25	29.24	32.62	(9.51, 55.73)
Sherman	Less Than 5					
Smith	43	129	33.33	32.09	31.70	(24.24, 39.16)
Somervell	Less Than 5					
Starr	12	22	54.55	29.02	57.37**	(37.63, 77.12)
Stephens	Less Than 5					
Sterling	Less Than 5					
Stonewall	Less Than 5					
Sutton	Less Than 5					
Swisher	Less Than 5					
Tarrant	278	1,139	24.41	29.26	25.46*	(22.74, 28.18)
Taylor	25	74	33.78	30.86	33.41	(23.23, 43.60)
Terrell	Less Than 5					
Terry	Less Than 5					
Throckmorton	Less Than 5					
Titus	Less Than 5					
Tom Green	14	77	18.18	30.90	17.96*	(8.00, 27.91)
Travis	168	471	35.67	29.85	36.48**	(32.31, 40.64)
Trinity	Less Than 5					
Tyler	Less Than 5					
Upshur	6	25	24.00	31.01	23.62	(6.10, 41.15)

\* Risk adjusted admission rate is significantly LOWER (based on 99% confidence interval) than Texas average.

\*\* Risk adjusted admission rate is significantly HIGHER (based on 99% confidence interval) than Texas average.

**Table 4. Perforated Appendix Admission Rate (cont'd)**

County	Admissions	Admissions for Appendicitis	Observed Admissions per 100 Admissions for Appendicitis	Expected Admissions per 100 Admissions for Appendicitis	Risk-Adjusted Admissions per 100 Admissions for Appendicitis	99% Confidence Interval for Risk-Adjusted Admissions
State Total	4,083	14,080	29.00	30.14	29.37	
Upton	Less Than 5					
Uvalde	Less Than 5					
Val Verde	Less Than 5					
Van Zandt	8	26	30.77	27.18	34.55	(15.36, 53.74)
Victoria	12	56	21.43	32.48	20.13	(8.96, 31.31)
Walker	18	56	32.14	29.91	32.80	(20.68, 44.92)
Waller	5	12	41.67	29.79	42.69	(16.54, 68.84)
Ward	Less Than 5					
Washington	Less Than 5					
Webb	37	136	27.21	29.61	28.04	(20.22, 35.87)
Wharton	Less Than 5					
Wheeler	Less Than 5					
Wichita	21	65	32.31	32.91	29.96	(19.66, 40.26)
Wilbarger	Less Than 5					
Willacy	8	19	42.11	27.65	46.47	(24.29, 68.66)
Williamson	54	163	33.13	29.74	34.01	(26.91, 41.10)
Wilson	5	20	25.00	31.78	24.01	(4.94, 43.07)
Winkler	Less Than 5					
Wise	Less Than 5					
Wood	9	27	33.33	33.93	29.98	(14.41, 45.56)
Yoakum	Less Than 5					
Young	Less Than 5					
Zapata	Less Than 5					
Zavala	Less Than 5					

Source: *Texas Hospital Inpatient Discharge Public Use Data File, 2005*. Texas Department of State Health Services, Center for Health Statistics, Austin, Texas. 2006.

\* Risk adjusted admission rate is significantly LOWER (based on 99% confidence interval) than Texas average.

\*\* Risk adjusted admission rate is significantly HIGHER (based on 99% confidence interval) than Texas average.