

11. Diabetes Short-Term Complication

Diabetes is a disease in which the body does not produce or properly use insulin. Insulin is a hormone that is needed to convert sugar into energy needed for daily life. Short-term complications are a result of extreme fluctuations in blood sugar levels and can be quite serious. Extreme dizziness and fainting can indicate hypoglycemia (low blood sugar) or hyperglycemia (high blood sugar), and if not brought under control, seizures, shock or coma can occur. Diabetics need to monitor their blood sugar levels carefully and adjust their diet and/or medications accordingly. Regular and careful monitoring and management of diabetes in the outpatient setting can often reduce the risk of developing complications from the disease. Patient compliance with treatment plans is essential to the preventive management of diabetes. Cultural and linguistic factors may affect interactions with health care providers and the system²¹.

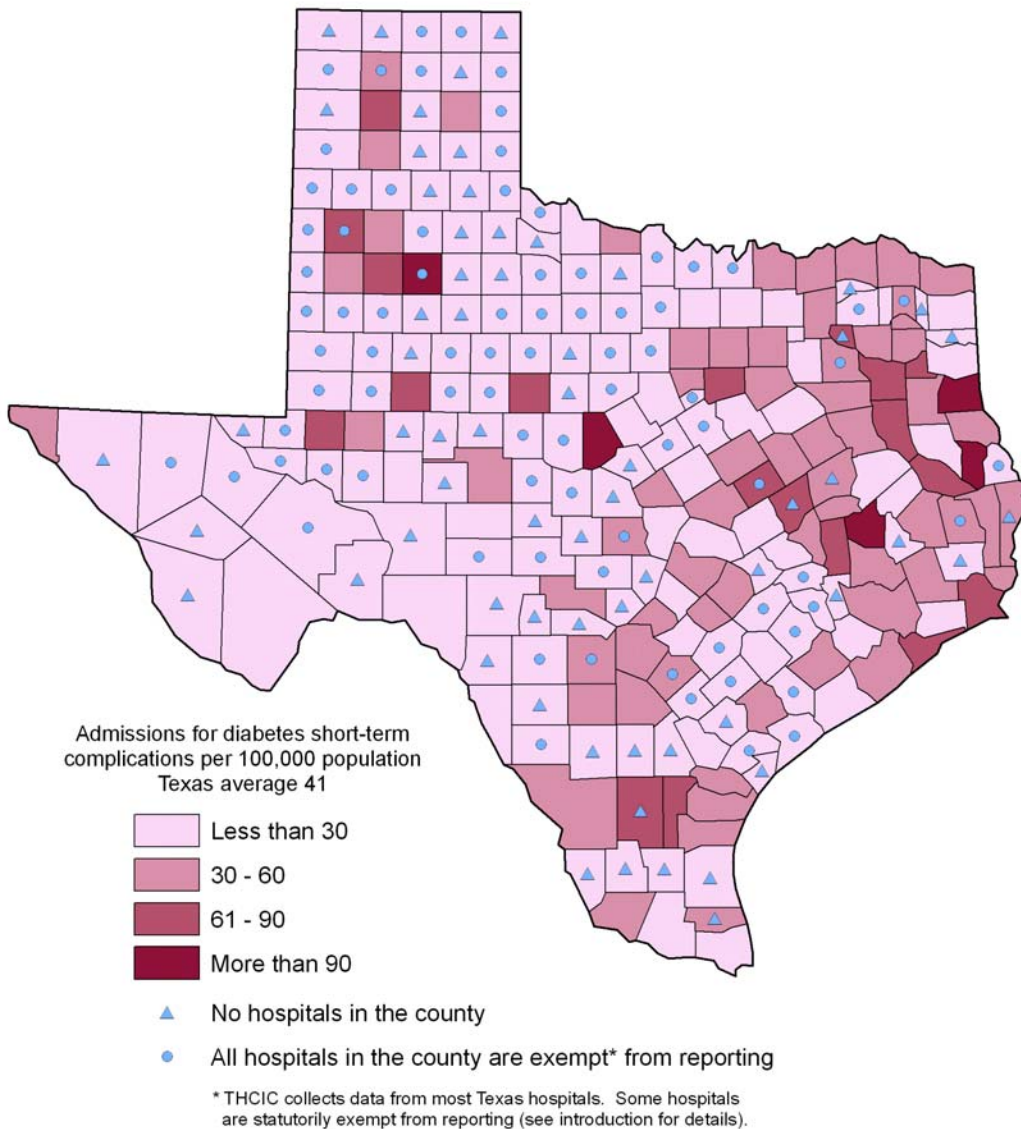


Table 11. Diabetes Short-Term Complication Admission Rate

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

County	Admissions	Population	Observed Admissions per 100,000 Population	Expected Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	99% Confidence Interval for Risk-Adjusted Admissions
State Total	7,561	16,501,931	45.82	51.62	41.00	
Anderson	23	45,261	50.82	52.44	44.76	(26.18, 63.34)
Andrews	Less Than 5					
Angelina	52	60,254	86.30	50.87	78.36*	(62.01, 94.71)
Aransas	5	19,078	26.21	49.10	24.65	(0.00, 54.23)
Archer	Less Than 5					
Armstrong	Less Than 5					
Atascosa	20	30,686	65.18	51.43	58.54	(35.75, 81.32)
Austin	Less Than 5					
Bailey	Less Than 5					
Bandera	Less Than 5					
Bastrop	25	51,151	48.87	51.48	43.85	(26.21, 61.49)
Baylor	Less Than 5					
Bee	9	26,360	34.14	52.90	29.81	(5.58, 54.05)
Bell	90	175,017	51.42	51.99	45.68	(36.20, 55.17)
Bexar	535	1,092,266	48.98	51.53	43.91	(40.09, 47.72)
Blanco	Less Than 5					
Borden	Less Than 5					
Bosque	Less Than 5					
Bowie	37	69,675	53.10	50.95	48.14	(32.95, 63.33)
Brazoria	79	199,288	39.64	51.83	35.33	(26.42, 44.24)
Brazos	48	124,256	38.63	54.53	32.72	(21.73, 43.72)
Brewster	Less Than 5					
Briscoe	Less Than 5					
Brooks	Less Than 5					
Brown	29	29,107	99.63	50.55	91.03**	(67.44, 114.6)
Burleson	Less Than 5					
Burnet	5	31,775	15.74	49.51	14.68	(0.00, 37.50)
Caldwell	14	26,939	51.97	51.32	46.78	(22.43, 71.12)
Calhoun	Less Than 5					
Callahan	Less Than 5					
Cameron	82	249,884	32.82	51.58	29.38*	(21.41, 37.36)
Camp	5	8,877	56.33	50.05	51.98	(9.04, 94.92)
Carson	Less Than 5					
Cass	Less Than 5					
Castro	Less Than 5					
Chambers	Less Than 5					
Cherokee	27	36,027	74.94	50.79	68.16**	(47.00, 89.32)
Childress	Less Than 5					
Clay	Less Than 5					
Cochran	Less Than 5					
Coke	Less Than 5					
Coleman	Less Than 5					
Collin	119	460,207	25.86	51.98	22.98*	(17.12, 28.83)
Collingsworth	Less Than 5					
Colorado	Less Than 5					
Comal	24	71,006	33.80	50.49	30.92	(15.80, 46.03)

* 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 11. Diabetes Short-Term Complication Admission Rate (cont'd)

County	Admissions	Population	Observed Admissions per 100,000 Population	Expected Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	99% Confidence Interval for Risk-Adjusted Admissions
State Total	7,561	16,501,931	45.82	51.62	41.00	
Comanche	Less Than 5					
Concho	Less Than 5					
Cooke	8	29,069	27.52	50.68	25.08	(1.50, 48.66)
Coryell	16	56,205	28.47	53.31	24.67	(8.13, 41.20)
Cottle	Less Than 5					
Crane	Less Than 5					
Crockett	Less Than 5					
Crosby	7	4,815	145.38	49.93	134.49**	(76.12, 192.9)
Culberson	Less Than 5					
Dallam	Less Than 5					
Dallas	885	1,666,566	53.10	51.84	47.31**	(44.23, 50.39)
Dawson	Less Than 5					
Deaf Smith	Less Than 5					
Delta	Less Than 5					
Denton	95	391,729	24.25	52.53	21.32*	(15.01, 27.63)
De Witt	Less Than 5					
Dickens	Less Than 5					
Dimmit	Less Than 5					
Donley	Less Than 5					
Duval	8	9,317	85.86	51.03	77.72	(36.21, 119.2)
Eastland	Less Than 5					
Ector	73	89,041	81.98	51.47	73.58**	(60.21, 86.95)
Edwards	Less Than 5					
Ellis	57	94,353	60.41	51.85	53.82	(40.88, 66.76)
El Paso	221	496,822	44.48	51.59	39.83	(34.18, 45.48)
Erath	8	26,212	30.52	51.92	27.15	(2.62, 51.68)
Falls	9	13,251	67.92	50.16	62.54	(27.44, 97.65)
Fannin	9	25,857	34.81	50.69	31.72	(6.72, 56.72)
Fayette	Less Than 5					
Fisher	Less Than 5					
Floyd	Less Than 5					
Foard	Less Than 5					
Fort Bend	105	323,125	32.50	52.21	28.75*	(21.78, 35.72)
Franklin	Less Than 5					
Freestone	5	14,739	33.92	50.72	30.89	(0.00, 63.99)
Frio	6	12,097	49.60	51.86	44.18	(8.04, 80.32)
Gaines	Less Than 5					
Galveston	144	204,871	70.29	51.05	63.60**	(54.75, 72.45)
Garza	Less Than 5					
Gillespie	Less Than 5					
Glasscock	Less Than 5					
Goliad	Less Than 5					
Gonzales	Less Than 5					
Gray	10	16,764	59.65	50.23	54.86	(23.67, 86.05)
Grayson	55	89,043	61.77	50.65	56.33**	(42.85, 69.80)
Gregg	85	85,788	99.08	50.98	89.77**	(76.09, 103.5)

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Table 11. Diabetes Short-Term Complication Admission Rate (cont'd)

County	Admissions	Population	Observed Admissions per 100,000 Population	Expected Admissions per 100,000 Population	Risk-Adjusted Admissions per 100,000 Population	99% Confidence Interval for Risk-Adjusted Admissions
State Total	7,561	16,501,931	45.82	51.62	41.00	
Grimes	14	19,655	71.23	51.15	64.32	(35.77, 92.86)
Guadalupe	23	74,721	30.78	51.29	27.72	(13.10, 42.34)
Hale	11	25,744	42.73	51.53	38.30	(13.45, 63.15)
Hall	Less Than 5					
Hamilton	Less Than 5					
Hansford	Less Than 5					
Hardeman	Less Than 5					
Hardin	12	38,176	31.43	50.88	28.54	(8.00, 49.08)
Harris	1,288	2,632,813	48.92	51.86	43.57**	(41.13, 46.02)
Harrison	10	47,735	20.95	51.02	18.97*	(0.63, 37.31)
Hartley	Less Than 5					
Haskell	Less Than 5					
Hays	28	92,698	30.21	53.32	26.17*	(13.29, 39.04)
Hemphill	Less Than 5					
Henderson	30	61,565	48.73	49.90	45.10	(28.78, 61.43)
Hidalgo	132	433,294	30.46	52.14	26.99*	(20.97, 33.01)
Hill	6	26,862	22.34	50.30	20.51	(0.00, 45.14)
Hockley	9	16,910	53.22	51.72	47.54	(16.93, 78.14)
Hood	20	36,742	54.43	49.54	50.76	(29.54, 71.97)
Hopkins	Less Than 5					
Houston	Less Than 5					
Howard	22	25,582	86.00	51.35	77.35**	(52.38, 102.3)
Hudspeth	Less Than 5					
Hunt	34	62,074	54.77	51.17	49.44	(33.38, 65.50)
Hutchinson	Less Than 5					
Irion	Less Than 5					
Jack	Less Than 5					
Jackson	Less Than 5					
Jasper	16	26,996	59.27	50.27	54.46	(29.89, 79.03)
Jeff Davis	Less Than 5					
Jefferson	143	188,775	75.75	51.13	68.43**	(59.22, 77.64)
Jim Hogg	Less Than 5					
Jim Wells	25	29,243	85.49	51.18	77.16**	(53.77, 100.6)
Johnson	80	106,780	74.92	51.55	67.13**	(54.93, 79.33)
Jones	2	16,216	12.33	51.99	10.96	(0.00, 42.13)
Karnes	2	12,461	16.05	52.13	14.22	(0.00, 49.73)
Kaufman	21	63,271	33.19	51.58	29.72	(13.88, 45.56)
Kendall	6	20,816	28.82	50.33	26.46	(0.00, 54.42)
Kenedy	Less Than 5					
Kent	Less Than 5					
Kerr	20	36,392	54.96	49.00	51.81	(30.38, 73.25)
Kimble	Less Than 5					
King	Less Than 5					
Kinney	Less Than 5					
Kleberg	9	23,524	38.26	52.15	33.88	(8.04, 59.72)
Knox	Less Than 5					

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State Total	7,561	16,501,931	45.82	51.62	41.00	
Lamar	22	37,728	58.31	50.30	53.55	(32.77, 74.33)
Lamb	9	10,634	84.63	50.46	77.47	(38.40, 116.5)
Lampasas	6	15,662	38.31	51.01	34.69	(2.67, 66.71)
La Salle	Less Than 5					
Lavaca	Less Than 5					
Lee	Less Than 5					
Leon	6	12,690	47.28	49.44	44.17	(8.04, 80.31)
Liberty	28	55,891	50.10	51.37	45.05	(28.15, 61.94)
Limestone	10	17,400	57.47	50.58	52.48	(21.97, 82.99)
Lipscomb	Less Than 5					
Live Oak	Less Than 5					
Llano	5	15,496	32.27	47.20	31.58	(0.00, 65.05)
Loving	Less Than 5					
Lubbock	131	190,605	68.73	51.97	61.08**	(51.99, 70.18)
Lynn	Less Than 5					
McCulloch	Less Than 5					
McClennan	92	167,237	55.01	51.80	49.05	(39.33, 58.78)
McMullen	Less Than 5					
Madison	7	10,658	65.68	51.76	58.61	(20.08, 97.15)
Marion	Less Than 5					
Martin	Less Than 5					
Mason	Less Than 5					
Matagorda	Less Than 5					
Maverick	11	33,257	33.08	51.65	29.58	(7.74, 51.42)
Medina	11	31,593	34.82	51.15	31.44	(8.93, 53.95)
Menard	Less Than 5					
Midland	51	87,632	58.20	51.27	52.43	(38.93, 65.94)
Milam	Less Than 5					
Mills	Less Than 5					
Mitchell	Less Than 5					
Montague	Less Than 5					
Montgomery	101	267,434	37.77	51.54	33.85	(26.14, 41.56)
Moore	5	13,806	36.22	51.71	32.35	(0.00, 66.23)
Morris	Less Than 5					
Motley	Less Than 5					
Nacogdoches	13	46,556	27.92	52.33	24.65	(6.31, 42.98)
Navarro	10	35,982	27.79	51.19	25.08	(3.99, 46.17)
Newton	5	11,138	44.89	50.38	41.16	(2.95, 79.37)
Nolan	Less Than 5					
Nueces	146	233,894	62.42	51.22	56.29**	(48.03, 64.56)
Ochiltree	Less Than 5					
Oldham	Less Than 5					
Orange	31	64,242	48.26	50.67	43.99	(28.13, 59.86)
Palo Pinto	6	20,846	28.78	50.03	26.57	(0.00, 54.60)
Panola	19	17,781	106.86	50.35	98.03**	(67.78, 128.3)
Parker	34	76,555	44.41	51.25	40.03	(25.58, 54.48)

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State Total	7,561	16,501,931	45.82	51.62	41.00	
Parmer	Less Than 5					
Pecos	Less Than 5					
Polk	15	36,956	40.59	49.88	37.58	(16.50, 58.67)
Potter	58	85,892	67.53	51.64	60.40**	(46.81, 73.99)
Presidio	Less Than 5					
Rains	7	8,875	78.87	49.92	72.99	(29.98, 116.0)
Randall	30	83,576	35.90	51.23	32.36	(18.53, 46.20)
Reagan	Less Than 5					
Real	Less Than 5					
Red River	6	10,730	55.92	49.50	52.18	(12.91, 91.45)
Reeves	Less Than 5					
Refugio	Less Than 5					
Roberts	Less Than 5					
Robertson	11	11,902	92.42	49.91	85.54**	(48.40, 122.7)
Rockwall	14	43,146	32.45	51.69	29.00	(9.83, 48.16)
Runnels	Less Than 5					
Rusk	13	37,363	34.79	50.74	31.67	(10.89, 52.46)
Sabine	Less Than 5					
San Augustine	9	7,035	127.93	48.99	120.62**	(71.86, 169.4)
San Jacinto	5	19,192	26.05	49.95	24.09	(0.00, 53.32)
San Patricio	24	48,607	49.38	51.39	44.38	(26.27, 62.49)
San Saba	Less Than 5					
Schleicher	Less Than 5					
Scurry	Less Than 5					
Shackelford	Less Than 5					
Shelby	10	19,651	50.89	50.43	46.61	(17.86, 75.36)
Sherman	Less Than 5					
Smith	107	140,371	76.23	50.79	69.33**	(58.61, 80.05)
Somervell	Less Than 5					
Starr	14	38,568	36.30	52.06	32.21	(12.01, 52.41)
Stephens	Less Than 5					
Sterling	Less Than 5					
Stonewall	Less Than 5					
Sutton	Less Than 5					
Swisher	Less Than 5					
Tarrant	616	1,160,170	53.10	51.76	47.38**	(43.69, 51.08)
Taylor	63	93,623	67.29	51.58	60.26**	(47.23, 73.28)
Terrell	Less Than 5					
Terry	Less Than 5					
Throckmorton	Less Than 5					
Titus	9	20,654	43.58	51.28	39.25	(11.44, 67.06)
Tom Green	39	78,631	49.60	51.24	44.71	(30.45, 58.97)
Travis	232	665,736	34.85	52.41	30.71*	(25.87, 35.56)
Trinity	Less Than 5					
Tyler	6	16,610	36.12	50.01	33.37	(1.96, 64.77)
Upshur	11	28,614	38.44	50.33	35.28	(11.43, 59.13)

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State Total	7,561	16,501,931	45.82	51.62	41.00	
Upton	Less Than 5					
Uvalde	Less Than 5					
Val Verde	9	33,245	27.07	50.79	24.62	(2.59, 46.64)
Van Zandt	19	40,144	47.33	50.02	43.71	(23.51, 63.91)
Victoria	34	62,976	53.99	50.92	48.98	(32.99, 64.96)
Walker	60	52,064	115.24	53.81	98.92**	(81.82, 116.0)
Waller	8	26,459	30.24	52.93	26.38	(2.20, 50.57)
Ward	Less Than 5					
Washington	Less Than 5					
Webb	62	140,556	44.11	52.39	38.89	(28.34, 49.44)
Wharton	12	30,753	39.02	50.99	35.34	(12.49, 58.20)
Wheeler	Less Than 5					
Wichita	41	96,651	42.42	51.65	37.93	(25.12, 50.74)
Wilbarger	Less Than 5					
Willacy	6	14,289	41.99	51.79	37.45	(4.18, 70.72)
Williamson	75	230,561	32.53	52.07	28.86*	(20.60, 37.12)
Wilson	10	27,537	36.31	51.11	32.82	(8.69, 56.94)
Winkler	Less Than 5					
Wise	5	41,790	11.96	51.25	10.78*	(0.00, 30.34)
Wood	16	32,512	49.21	49.57	45.86	(23.31, 68.40)
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.

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