

## Rockdale County Physician Standard Report

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k	Physician Need	Population
<b>Allergy &amp; Immunology</b>		<b>81,835</b>	<b>2</b>	<b>2.4</b>	<b>97,728</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	1.4	1	Surplus: 1	1	
Two Mature HMO	1.5	1	Surplus: 1	1	
Adjusted FTE	1.4	1	Surplus: 1	1	
GMENAC	0.8	1	Surplus: 1	1	
Kaiser Portland	1.7	1	Surplus: 1	1	
7 Kaiser Plans	1.2	1	Surplus: 1	1	
GHC Seattle	1.1	1	Surplus: 1	1	
Three HMOs					
Goodman	1.3	1	Surplus: 1	1	
Hicks & Glenn					
Solucient	1.7	1	Surplus: 1	2	
Average Requirement	1.3	1	Surplus: 1	1	

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k	Physician Need	Population
<b>Anesthesiology</b>		<b>81,835</b>	<b>7</b>	<b>8.6</b>	<b>97,728</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	14.0	11	Deficit: -4	14	
Two Mature HMO	9.7	8	Deficit: -1	9	
Adjusted FTE	9.1	7	Adequate 0	9	
GMENAC	8.9	7	Adequate 0	9	
Kaiser Portland	5.9	5	Surplus: 2	4	
7 Kaiser Plans	3.9	3	Surplus: 4	4	
GHC Seattle	9.0	7	Adequate 0	9	
Three HMOs					
Goodman	7.0	6	Surplus: 1	7	
Hicks & Glenn					
Solucient					
Average Requirement	7.6	6	Surplus: 1	7	

## Rockdale County Physician Standard Report

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k	Status	Population
<b>Cardiovascular Diseases</b>		<b>81,835</b>	<b>5</b>	<b>6.1</b>	<b>97,728</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	7.5	6	Deficit: -1	7	
Two Mature HMO	5.4	4	Surplus: 1	5	
Adjusted FTE	5.0	4	Surplus: 1	5	
GMENAC	3.1	3	Surplus: 2	3	
Kaiser Portland	3.0	2	Surplus: 3	2	
7 Kaiser Plans	1.8	1	Surplus: 4	2	
GHC Seattle	2.9	2	Surplus: 3	3	
Three HMOs					
Goodman	3.6	3	Surplus: 2	4	
Hicks & Glenn	2.6	2	Surplus: 3	3	
Solucient	4.2	3	Surplus: 2	4	
Average Requirement	3.5	3	Surplus: 2	3	

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k	Status	Population
<b>Dermatology</b>		<b>81,835</b>	<b>2</b>	<b>2.4</b>	<b>97,728</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	3.7	3	Deficit: -1	4	
Two Mature HMO	2.8	2	Adequate 0	3	
Adjusted FTE	2.6	2	Adequate 0	3	
GMENAC	2.8	2	Adequate 0	3	
Kaiser Portland	2.5	2	Adequate 0	2	
7 Kaiser Plans	2.4	2	Adequate 0	2	
GHC Seattle	2.6	2	Adequate 0	3	
Three HMOs	1.6	1	Surplus: 1	2	
Goodman	1.4	1	Surplus: 1	1	
Hicks & Glenn	2.1	2	Adequate 0	2	
Solucient	3.1	3	Deficit: -1	3	
Average Requirement	2.4	2	Adequate 0	2	

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Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k		Population
<b>Emergency Medicine</b>		<b>81,835</b>	<b>6</b>	<b>7.3</b>	<b>97,728</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	10.5	9	Deficit: -3	10	
Two Mature HMO	5.5	5	Surplus: 1	5	
Adjusted FTE	5.2	4	Surplus: 2	5	
GMENAC	5.4	4	Surplus: 2	5	
Kaiser Portland	6.7	5	Surplus: 1	5	
7 Kaiser Plans	5.3	4	Surplus: 2	5	
GHC Seattle					
Three HMOs					
Goodman	2.7	2	Surplus: 4	3	
Hicks & Glenn					
Solucient	12.4	10	Deficit: -4	12	
Average Requirement	6.2	5	Surplus: 1	6	

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k		Population
<b>Family Practice</b>		<b>81,835</b>	<b>21</b>	<b>25.7</b>	<b>97,728</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	31.5	26	Deficit: -5	31	
Two Mature HMO	45.6	37	Deficit: -16	45	
Adjusted FTE	42.6	35	Deficit: -14	42	
GMENAC	25.2	21	Adequate 0	25	
Kaiser Portland	16.7	14	Surplus: 7	11	
7 Kaiser Plans	11.0	9	Surplus: 12	11	
GHC Seattle					
Three HMOs	9.2	8	Surplus: 13	9	
Goodman					
Hicks & Glenn	16.2	13	Surplus: 8	16	
Solucient	22.5	18	Surplus: 3	22	
Average Requirement	23.6	19	Surplus: 2	23	

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Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k	Status	Population
<b>Gastroenterology</b>		<b>81,835</b>	<b>5</b>	<b>6.1</b>	<b>97,728</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	4.2	3	Surplus: 2	4	
Two Mature HMO	3.1	3	Surplus: 2	3	
Adjusted FTE					
GMENAC	3.2	3	Surplus: 2	3	
Kaiser Portland	1.7	1	Surplus: 4	2	
7 Kaiser Plans	1.7	1	Surplus: 4	2	
GHC Seattle					
Three HMOs					
Goodman	1.3	1	Surplus: 4	1	
Hicks & Glenn					
Solucient	3.5	3	Surplus: 2	3	
Average Requirement	2.4	2	Surplus: 3	2	

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k	Status	Population
<b>Hematology/Oncology</b>		<b>81,835</b>	<b>1</b>	<b>1.2</b>	<b>97,728</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	3.5	3	Deficit: -2	3	
Two Mature HMO	2.5	2	Deficit: -1	2	
Adjusted FTE	2.4	2	Deficit: -1	2	
GMENAC	3.6	3	Deficit: -2	4	
Kaiser Portland	2.3	2	Deficit: -1	2	
7 Kaiser Plans	1.8	1	Adequate 0	2	
GHC Seattle	1.6	1	Adequate 0	2	
Three HMOs	2.6	2	Deficit: -1	3	
Goodman	1.2	1	Adequate 0	1	
Hicks & Glenn					
Solucient	1.1	1	Adequate 0	1	
Average Requirement	2.1	2	Deficit: -1	2	

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Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k	Physician Need	Population
<b>Internal Medicine</b>		<b>81,835</b>	<b>33</b>	<b>40.3</b>	<b>97,728</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	53.1	43	Deficit: -10	52	
Two Mature HMO	21.4	18	Surplus: 15	21	
Adjusted FTE	20.0	16	Surplus: 17	20	
GMENAC	28.8	24	Surplus: 9	28	
Kaiser Portland	28.1	23	Surplus: 10	30	
7 Kaiser Plans	30.3	25	Surplus: 8	30	
GHC Seattle					
Three HMOs	16.7	14	Surplus: 19	16	
Goodman					
Hicks & Glenn	11.3	9	Surplus: 24	11	
Solucient	19.0	16	Surplus: 17	19	
Average Requirement	22.0	18	Surplus: 15	22	

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k	Physician Need	Population
<b>Nephrology</b>		<b>81,835</b>	<b>1</b>	<b>1.2</b>	<b>97,728</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	2.6	2	Deficit: -1	3	
Two Mature HMO	1.4	1	Adequate 0	1	
Adjusted FTE	1.3	1	Adequate 0	1	
GMENAC	1.1	1	Adequate 0	1	
Kaiser Portland	0.8	1	Adequate 0	1	
7 Kaiser Plans	0.7	1	Adequate 0	1	
GHC Seattle	0.9	1	Adequate 0	1	
Three HMOs					
Goodman					
Hicks & Glenn					
Solucient	0.7	1	Adequate 0	1	
Average Requirement	1.0	1	Adequate 0	1	

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Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k	Physician Need	Population
<b>Neurology</b>		<b>81,835</b>	<b>3</b>	<b>3.7</b>	<b>97,728</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	5.0	4	Deficit: -1	5	
Two Mature HMO	2.4	2	Surplus: 1	2	
Adjusted FTE	2.3	2	Surplus: 1	2	
GMENAC	3.3	3	Adequate 0	3	
Kaiser Portland	1.3	1	Surplus: 2	2	
7 Kaiser Plans	1.7	1	Surplus: 2	2	
GHC Seattle	1.2	1	Surplus: 2	1	
Three HMOs					
Goodman	2.1	2	Surplus: 1	2	
Hicks & Glenn	1.4	1	Surplus: 2	1	
Solucient	1.8	1	Surplus: 2	2	
Average Requirement	1.9	2	Surplus: 1	2	

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k	Physician Need	Population
<b>OB/GYN</b>		<b>81,835</b>	<b>11</b>	<b>13.4</b>	<b>97,728</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	14.1	12	Deficit: -1	14	
Two Mature HMO	12.1	10	Surplus: 1	12	
Adjusted FTE	11.3	9	Surplus: 2	11	
GMENAC	9.9	8	Surplus: 3	10	
Kaiser Portland	11.6	9	Surplus: 2	11	
7 Kaiser Plans	11.5	9	Surplus: 2	11	
GHC Seattle	10.0	8	Surplus: 3	10	
Three HMOs	8.8	7	Surplus: 4	9	
Goodman	8.4	7	Surplus: 4	8	
Hicks & Glenn	8.0	7	Surplus: 4	8	
Solucient	10.2	8	Surplus: 3	10	
Average Requirement	10.2	8	Surplus: 3	10	

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Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians	/100k	Population
<b>Ophthalmology</b>		<b>81,835</b>	<b>3</b>	<b>3.7</b>	<b>97,728</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	6.0	5	Deficit: -2	6	
Two Mature HMO	5.9	5	Deficit: -2	6	
Adjusted FTE	5.5	5	Deficit: -2	5	
GMENAC	4.6	4	Deficit: -1	4	
Kaiser Portland	2.4	2	Surplus: 1	3	
7 Kaiser Plans	3.1	3	Adequate 0	3	
GHC Seattle	5.0	4	Deficit: -1	5	
Three HMOs					
Goodman	3.5	3	Adequate 0	3	
Hicks & Glenn	3.2	3	Adequate 0	3	
Solucient	4.7	4	Deficit: -1	5	
Average Requirement	4.2	3	Adequate 0	4	

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians	/100k	Population
<b>Orthopedic Surgery</b>		<b>81,835</b>	<b>4</b>	<b>4.9</b>	<b>97,728</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	8.3	7	Deficit: -3	8	
Two Mature HMO	6.8	6	Deficit: -2	7	
Adjusted FTE	6.4	5	Deficit: -1	6	
GMENAC	6.0	5	Deficit: -1	6	
Kaiser Portland	5.9	5	Deficit: -1	4	
7 Kaiser Plans	4.2	3	Surplus: 1	4	
GHC Seattle	6.7	5	Deficit: -1	7	
Three HMOs	3.0	2	Surplus: 2	3	
Goodman	5.9	5	Deficit: -1	6	
Hicks & Glenn	4.2	3	Surplus: 1	4	
Solucient	6.1	5	Deficit: -1	6	
Average Requirement	5.5	5	Deficit: -1	5	

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Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k	Physician Need	Population
<b>Otolaryngology</b>		<b>81,835</b>	<b>3</b>	<b>3.7</b>	<b>97,728</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	3.4	3	Adequate 0	3	
Two Mature HMO	3.2	3	Adequate 0	3	
Adjusted FTE					
GMENAC	3.2	3	Adequate 0	3	
Kaiser Portland	3.4	3	Adequate 0	2	
7 Kaiser Plans	2.4	2	Surplus: 1	2	
GHC Seattle	3.0	2	Surplus: 1	3	
Three HMOs					
Goodman					
Hicks & Glenn					
Solucient					
Average Requirement	3.0	2	Surplus: 1	3	

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k	Physician Need	Population
<b>Pathology</b>		<b>81,835</b>	<b>2</b>	<b>2.4</b>	<b>97,728</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	6.3	5	Deficit: -3	6	
Two Mature HMO	1.9	2	Adequate 0	2	
Adjusted FTE	1.8	1	Surplus: 1	2	
GMENAC	6.4	5	Deficit: -3	6	
Kaiser Portland	3.3	3	Deficit: -1	2	
7 Kaiser Plans	1.8	1	Surplus: 1	2	
GHC Seattle					
Three HMOs					
Goodman	4.1	3	Deficit: -1	4	
Hicks & Glenn					
Solucient					
Average Requirement	3.2	3	Deficit: -1	3	

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Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k		Population
<b>Pediatrics</b>		<b>81,835</b>	<b>13</b>	<b>15.9</b>	<b>97,728</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	24.9	20	Deficit: -7	24	
Two Mature HMO	16.6	14	Deficit: -1	16	
Adjusted FTE	15.5	13	Adequate 0	15	
GMENAC	12.4	10	Surplus: 3	12	
Kaiser Portland	11.9	10	Surplus: 3	16	
7 Kaiser Plans	16.0	13	Adequate 0	16	
GHC Seattle					
Three HMOs	9.8	8	Surplus: 5	10	
Goodman					
Hicks & Glenn	7.6	6	Surplus: 7	7	
Solucient	13.9	11	Surplus: 2	14	
Average Requirement	13.0	11	Surplus: 2	13	

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k		Population
<b>Plastic Surgery</b>		<b>81,835</b>	<b>1</b>	<b>1.2</b>	<b>97,728</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	2.4	2	Deficit: -1	2	
Two Mature HMO					
Adjusted FTE					
GMENAC	1.1	1	Adequate 0	1	
Kaiser Portland	0.3	0	Surplus: 1		
7 Kaiser Plans					
GHC Seattle	0.4	0	Surplus: 1	0	
Three HMOs					
Goodman	1.1	1	Adequate 0	1	
Hicks & Glenn	2.3	2	Deficit: -1	2	
Solucient	2.2	2	Deficit: -1	2	
Average Requirement	1.2	1	Adequate 0	1	

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Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k		Population
<b>Psychiatry</b>		<b>81,835</b>	<b>6</b>	<b>7.3</b>	<b>97,728</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status		Physician Need
AMA	13.6	11	Deficit:	-5	13
Two Mature HMO	7.7	6	Adequate	0	8
Adjusted FTE	7.2	6	Adequate	0	7
GMENAC	15.4	13	Deficit:	-7	15
Kaiser Portland	5.2	4	Surplus:	2	4
7 Kaiser Plans	4.1	3	Surplus:	3	4
GHC Seattle					
Three HMOs					
Goodman	7.2	6	Adequate	0	7
Hicks & Glenn	3.9	3	Surplus:	3	4
Solucient	5.7	5	Surplus:	1	6
Average Requirement	7.1	6	Adequate	0	7

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k		Population
<b>Radiology</b>		<b>81,835</b>	<b>4</b>	<b>4.9</b>	<b>97,728</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status		Physician Need
AMA	11.4	9	Deficit:	-5	11
Two Mature HMO	13.6	11	Deficit:	-7	13
Adjusted FTE	13.7	11	Deficit:	-7	13
GMENAC	7.7	6	Deficit:	-2	8
Kaiser Portland	8.5	7	Deficit:	-3	5
7 Kaiser Plans	4.7	4	Adequate	0	5
GHC Seattle	7.7	6	Deficit:	-2	8
Three HMOs					
Goodman	8.0	7	Deficit:	-3	8
Hicks & Glenn					
Solucient					
Average Requirement	9.1	7	Deficit:	-3	9

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Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k		Population
<b>General Surgery</b>		<b>81,835</b>	<b>7</b>	<b>8.6</b>	<b>97,728</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	12.5	10	Deficit: -3	12	
Two Mature HMO	9.4	8	Deficit: -1	9	
Adjusted FTE	8.8	7	Adequate 0	9	
GMENAC	9.7	8	Deficit: -1	9	
Kaiser Portland	7.0	6	Surplus: 1	6	
7 Kaiser Plans	6.2	5	Surplus: 2	6	
GHC Seattle	5.9	5	Surplus: 2	6	
Three HMOs	4.2	3	Surplus: 4	4	
Goodman	9.7	8	Deficit: -1	9	
Hicks & Glenn	4.1	3	Surplus: 4	4	
Solucient	6.0	5	Surplus: 2	6	
Average Requirement	7.1	6	Surplus: 1	7	

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k		Population
<b>Urology</b>		<b>81,835</b>	<b>4</b>	<b>4.9</b>	<b>97,728</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	3.5	3	Surplus: 1	3	
Two Mature HMO	3.5	3	Surplus: 1	3	
Adjusted FTE	3.3	3	Surplus: 1	3	
GMENAC	3.1	3	Surplus: 1	3	
Kaiser Portland	3.3	3	Surplus: 1	2	
7 Kaiser Plans	2.3	2	Surplus: 2	2	
GHC Seattle	2.9	2	Surplus: 2	3	
Three HMOs					
Goodman	2.6	2	Surplus: 2	3	
Hicks & Glenn	1.9	2	Surplus: 2	2	
Solucient	2.9	2	Surplus: 2	3	
Average Requirement	2.9	2	Surplus: 2	3	

## Rockdale County Physician Standard Report

Report created by Georgia Board for Physician Workforce, State of Georgia

\*Standards are presented as rates per 100,000 population

- (1) McClendon, B., R. Polizer, E. Christain, and E. Fernandez. 1997. Downsizing the Physician Workforce. Public Health Reports. May/June 112:231-239.
- (2) Graduate Medical Education National Advisory Committee Summary Report. 1981. Pub. No. (HRA) 81-651. Washington: Government Printing Office.
- (3) American Medical Association. 1996. Physician Characteristics and Distribution in the US: 1995/1996. Chicago.
- (4) American Osteopathic Association. 1993. 1994 Yearbook and Directory of Osteopathic Physicians. Chicago.
- (5) Hart, L., E. Wagner, J. Parzada, A. Nelson, and R. Rosenblat. 1997. Physician Staffing Ratios in Staff- Model HMO's: A Cautionary Tale, Health Affairs 16, no. 1:55-70.
- (6) Weiner, J.P. 1994 Forecasting the Effects of Health Reform on U.S. Physician Workforce Requirement. JAMA 272, no. 3:222-230.
- (7) Steinwachs, D., J.P. Weiner, S. Shapiro, et al. 1986. A Comparison of the Requirements for Primary Care Physicians in with Projections Made by the Graduate Medical National Advisory Committee. New England Journal of Medicine 314:217-222.
- (8) Kronick, R., D.C. Goodman, J. Wennberg, and E. Wagner. 1993. The Marketplace in Health Care Reform: The Demographic Limitations of Managed Competition. New England Journal of Medicine 328:1480-152. See also, related NAPS Document 04998.
- (9) Vansdow, N.A. The Physician Workforce: Issues for Academic Medical Centers. Forum on the Future of Academic Medicine. December 2, 1996.
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- (11) A Review of Physician-to-Population Ratios. Merritt Hawkins & Associates. GMENAC, Goodman (Dec. 11, 1996 JAMA), Hicks & Glenn (1989 Journal of Health Care Management), Solucient (2003).
- (12) American Medical Association. Physician Characteristics and Distribution in the US, 2010 Edition; 2010.