		20	008 Actual		2015 Projected
Physician Specialty		Population	Physicians	/100k	Population
Anesthesiology		138,719	3	2.2	181,961
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	3	Physician Need
AMA	14.0	19	Deficit:	-16	25
Two Mature HMO	9.7	13	Deficit:	-10	18
Adjusted FTE	9.1	13	Deficit:	-10	17
GMENAC	8.9	12	Deficit:	-9	16
Kaiser Portland	5.9	8	Deficit:	-5	11
7 Kaiser Plans	3.9	5	Deficit:	-2	7
GHC Seattle	9.0	12	Deficit:	-9	16
Three HMOs					
Goodman	7.0	10	Deficit:	-7	13
Hicks & Glenn					
Solucient					
Average Requirement	7.6	11	Deficit:	-8	14

			2	008 Actual		2015 Projected
Physician Specialty			Population	Physicians	/100k	Population
Cardio	Cardiovascular Diseases		138,719	7	5.0	181,961
	National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	S	Physician Need
	AMA	7.5	10	Deficit:	-3	14
	Two Mature HMO	5.4	7	Adequate	0	10
	Adjusted FTE	5.0	7	Adequate	0	9
	GMENAC	3.1	4	Surplus:	3	6
	Kaiser Portland	3.0	4	Surplus:	3	5
	7 Kaiser Plans	1.8	2	Surplus:	5	3
	GHC Seattle	2.9	4	Surplus:	3	5
	Three HMOs					
	Goodman	3.6	5	Surplus:	2	7
	Hicks & Glenn	2.6	4	Surplus:	3	5
	Solucient	4.2	6	Surplus:	1	8
	Average Requirement	3.5	5	Surplus:	2	6

		2	008 Actual		2015 Projected
Physician Specialty		Population	Physicians	/100k	Population
Dermatology		138,719	4	2.9	181,961
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	3	Physician Need
AMA	3.7	5	Deficit:	-1	7
Two Mature HMO	2.8	4	Adequate	0	5
Adjusted FTE	2.6	4	Adequate	0	5
GMENAC	2.8	4	Adequate	0	5
Kaiser Portland	2.5	3	Surplus:	1	5
7 Kaiser Plans	2.4	3	Surplus:	1	4
GHC Seattle	2.6	4	Adequate	0	5
Three HMOs	1.6	2	Surplus:	2	3
Goodman	1.4	2	Surplus:	2	3
Hicks & Glenn	2.1	3	Surplus:	1	4
Solucient	3.1	4	Adequate	0	6
Average Requirement	2.4	3	Surplus:	1	4

			2	008 Actual		2015 Projecte
Physician Specialty			Population	Physicians	/100k	Population
Emer	Emergency Medicine		138,719	13	9.4	181,961
	National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	3	Physician Need
	AMA	10.5	15	Deficit:	-2	19
	Two Mature HMO	5.5	8	Surplus:	5	10
	Adjusted FTE	5.2	7	Surplus:	6	9
	GMENAC	5.4	7	Surplus:	6	10
	Kaiser Portland	6.7	9	Surplus:	4	12
	7 Kaiser Plans	5.3	7	Surplus:	6	10
	GHC Seattle					
	Three HMOs					
	Goodman	2.7	4	Surplus:	9	5
	Hicks & Glenn					
	Solucient	12.4	17	Deficit:	-4	23
	Average Requirement	6.2	9	Surplus:	4	11

		2	008 Actual		2015 Projected
Physician Specialty		Population	Physicians	/100k	Population
Family Practice		138,719	43	31.0	181,961
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	S	Physician Need
AMA	31.5	44	Deficit:	-1	57
Two Mature HMO	45.6	63	Deficit:	-20	83
Adjusted FTE	42.6	59	Deficit:	-16	78
GMENAC	25.2	35	Surplus:	8	46
Kaiser Portland	16.7	23	Surplus:	20	30
7 Kaiser Plans	11.0	15	Surplus:	28	20
GHC Seattle					
Three HMOs	9.2	13	Surplus:	30	17
Goodman					
Hicks & Glenn	16.2	22	Surplus:	21	29
Solucient	22.5	31	Surplus:	12	41
Average Requirement	23.6	33	Surplus:	10	43

		2	008 Actual		2015 Projected
Physician Specialty		Population	Physicians	/100k	Population
Gastroenterology		138,719	3	2.2	181,961
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	3	Physician Need
AMA	4.2	6	Deficit:	-3	8
Two Mature HMO	3.1	4	Deficit:	-1	6
Adjusted FTE					
GMENAC	3.2	4	Deficit:	-1	6
Kaiser Portland	1.7	2	Surplus:	1	3
7 Kaiser Plans	1.7	2	Surplus:	1	3
GHC Seattle					
Three HMOs					
Goodman	1.3	2	Surplus:	1	2
Hicks & Glenn					
Solucient	3.5	5	Deficit:	-2	6
Average Requirement	2.4	3	Adequate	0	4

		2	008 Actual		2015 Projecte
Physician Specialty		Population	Physicians	/100k	Population
Hematology/Oncology		138,719	1	0.7	181,961
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	3	Physician Need
AMA	3.5	5	Deficit:	-4	6
Two Mature HMO	2.5	3	Deficit:	-2	5
Adjusted FTE	2.4	3	Deficit:	-2	4
GMENAC	3.6	5	Deficit:	-4	7
Kaiser Portland	2.3	3	Deficit:	-2	4
7 Kaiser Plans	1.8	2	Deficit:	-1	3
GHC Seattle	1.6	2	Deficit:	-1	3
Three HMOs	2.6	4	Deficit:	-3	5
Goodman	1.2	2	Deficit:	-1	2
Hicks & Glenn					
Solucient	1.1	1	Adequate	0	2
Average Requirement	2.1	3	Deficit:	-2	4

			2	008 Actual		2015 Projecte
Physician Specialty			Population	Physicians	/100k	Population
Infect	tious Disease		138,719	1	0.7	181,961
	National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	S	Physician Need
	AMA	2.2	3	Deficit:	-2	4
	Two Mature HMO	0.7	1	Adequate	0	1
	Adjusted FTE	0.6	1	Adequate	0	1
	GMENAC	0.9	1	Adequate	0	2
	Kaiser Portland	1.2	2	Deficit:	-1	2
	7 Kaiser Plans	0.7	1	Adequate	0	1
	GHC Seattle	0.6	1	Adequate	0	1
	Three HMOs					
	Goodman					
	Hicks & Glenn					
	Solucient					
	Average Requirement	0.8	1	Adequate	0	1

		20	008 Actual		2015 Projected
Physician Specialty	Physician Specialty		Physicians	/100k	Population
Internal Medicine		138,719	29	20.9	181,961
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	6	Physician Need
AMA	53.1	74	Deficit:	-45	97
Two Mature HMO	21.4	30	Deficit:	-1	39
Adjusted FTE	20.0	28	Surplus:	1	36
GMENAC	28.8	40	Deficit:	-11	52
Kaiser Portland	28.1	39	Deficit:	-10	51
7 Kaiser Plans	30.3	42	Deficit:	-13	55
GHC Seattle					
Three HMOs	16.7	23	Surplus:	6	30
Goodman					
Hicks & Glenn	11.3	16	Surplus:	13	21
Solucient	19.0	26	Surplus:	3	35
Average Requirement	22.0	31	Deficit:	-2	40

			2	008 Actual		2015 Projected
Physician Specialty			Population	Physicians	/100k	Population
Nephro	Nephrology		138,719	1	0.7	181,961
	National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Statu	s	Physician Need
	AMA	2.6	4	Deficit:	-3	5
	Two Mature HMO	1.4	2	Deficit:	-1	3
	Adjusted FTE	1.3	2	Deficit:	-1	2
	GMENAC	1.1	2	Deficit:	-1	2
	Kaiser Portland	0.8	1	Adequate	0	1
	7 Kaiser Plans	0.7	1	Adequate	0	1
	GHC Seattle	0.9	1	Adequate	0	2
	Three HMOs					
	Goodman					
	Hicks & Glenn					
	Solucient	0.7	1	Adequate	0	1
	Average Requirement	1.0	1	Adequate	0	2

		2	008 Actual		2015 Projected
Physician Specialty		Population	Physicians	/100k	Population
Neurological Surgery		138,719	1	0.7	181,961
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	3	Physician Need
AMA	1.9	3	Deficit:	-2	3
Two Mature HMO	1.1	2	Deficit:	-1	2
Adjusted FTE	1.0	1	Adequate	0	2
GMENAC	1.1	2	Deficit:	-1	2
Kaiser Portland	1.4	2	Deficit:	-1	3
7 Kaiser Plans					
GHC Seattle	0.4	1	Adequate	0	1
Three HMOs					
Goodman	0.7	1	Adequate	0	1
Hicks & Glenn					
Solucient					
Average Requirement	1.0	1	Adequate	0	2

			2	008 Actual		2015 Projected
Physician Specialty		Population	Physicians	/100k	Population	
Neurolog	JY		138,719	1	0.7	181,961
	National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Statu	S	Physician Need
	AMA	5.0	7	Deficit:	-6	9
	Two Mature HMO	2.4	3	Deficit:	-2	4
	Adjusted FTE	2.3	3	Deficit:	-2	4
	GMENAC	3.3	5	Deficit:	-4	6
	Kaiser Portland	1.3	2	Deficit:	-1	2
	7 Kaiser Plans	1.7	2	Deficit:	-1	3
	GHC Seattle	1.2	2	Deficit:	-1	2
	Three HMOs					
	Goodman	2.1	3	Deficit:	-2	4
	Hicks & Glenn	1.4	2	Deficit:	-1	3
	Solucient	1.8	2	Deficit:	-1	3
	Average Requirement	1.9	3	Deficit:	-2	3

		2	008 Actual		2015 Projected
Physician Specialty		Population	Physicians	/100k	Population
OB/GYN		138,719	3	2.2	181,961
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	3	Physician Need
AMA	14.1	20	Deficit:	-17	26
Two Mature HMO	12.1	17	Deficit:	-14	22
Adjusted FTE	11.3	16	Deficit:	-13	21
GMENAC	9.9	14	Deficit:	-11	18
Kaiser Portland	11.6	16	Deficit:	-13	21
7 Kaiser Plans	11.5	16	Deficit:	-13	21
GHC Seattle	10.0	14	Deficit:	-11	18
Three HMOs	8.8	12	Deficit:	-9	16
Goodman	8.4	12	Deficit:	-9	15
Hicks & Glenn	8.0	11	Deficit:	-8	15
Solucient	10.2	14	Deficit:	-11	19
Average Requirement	10.2	14	Deficit:	-11	19

			2	008 Actual		2015 Projected
Physic	Physician Specialty		Population	Physicians	/100k	Population
Optha	almology		138,719	4	2.9	181,961
	National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	6	Physician Need
	AMA	6.0	8	Deficit:	-4	11
	Two Mature HMO	5.9	8	Deficit:	-4	11
	Adjusted FTE	5.5	8	Deficit:	-4	10
	GMENAC	4.6	6	Deficit:	-2	8
	Kaiser Portland	2.4	3	Surplus:	1	4
	7 Kaiser Plans	3.1	4	Adequate	0	6
	GHC Seattle	5.0	7	Deficit:	-3	9
	Three HMOs					
	Goodman	3.5	5	Deficit:	-1	6
	Hicks & Glenn	3.2	4	Adequate	0	6
	Solucient	4.7	7	Deficit:	-3	9
	Average Requirement	4.2	6	Deficit:	-2	8

		2	008 Actual		2015 Projected
Physician Specialty		Population	Physicians	/100k	Population
Orthopedic Surgery		138,719	16	11.5	181,961
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status		Physician Need
AMA	8.3	12	Surplus:	4	15
Two Mature HMO	6.8	9	Surplus:	7	12
Adjusted FTE	6.4	9	Surplus:	7	12
GMENAC	6.0	8	Surplus:	8	11
Kaiser Portland	5.9	8	Surplus:	8	11
7 Kaiser Plans	4.2	6	Surplus:	10	8
GHC Seattle	6.7	9	Surplus:	7	12
Three HMOs	3.0	4	Surplus:	12	5
Goodman	5.9	8	Surplus:	8	11
Hicks & Glenn	4.2	6	Surplus:	10	8
Solucient	6.1	8	Surplus:	8	11
Average Requiremen	5.5	8	Surplus:	8	10

			2	008 Actual		2015 Projected
Physic	Physician Specialty		Population	Physicians	/100k	Population
Otola	ryngology		138,719	6	4.3	181,961
	National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Statu	s	Physician Need
	AMA	3.4	5	Surplus:	1	6
	Two Mature HMO	3.2	4	Surplus:	2	6
	Adjusted FTE					
	GMENAC	3.2	4	Surplus:	2	6
	Kaiser Portland	3.4	5	Surplus:	1	6
	7 Kaiser Plans	2.4	3	Surplus:	3	4
	GHC Seattle	3.0	4	Surplus:	2	5
	Three HMOs					
	Goodman					
	Hicks & Glenn					
	Solucient					
	Average Requirement	3.0	4	Surplus:	2	5

		2	008 Actual		2015 Projected
Physician Specialty	Physician Specialty		Physicians	/100k	Population
Pediatrics		138,719	23	16.6	181,961
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	3	Physician Need
AMA	24.9	35	Deficit:	-12	45
Two Mature HMO	16.6	23	Adequate	0	30
Adjusted FTE	15.5	22	Surplus:	1	28
GMENAC	12.4	17	Surplus:	6	23
Kaiser Portland	11.9	17	Surplus:	6	22
7 Kaiser Plans	16.0	22	Surplus:	1	29
GHC Seattle					
Three HMOs	9.8	14	Surplus:	9	18
Goodman					
Hicks & Glenn	7.6	11	Surplus:	12	14
Solucient	13.9	19	Surplus:	4	25
Average Requirement	13.0	18	Surplus:	5	24

			2	008 Actual		2015 Projected
Physician Specialty			Population	Physicians	/100k	Population
Plastic	c Surgery		138,719	3	2.2	181,961
	National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Statu	s	Physician Need
	AMA	2.4	3	Adequate	0	4
	Two Mature HMO					
	Adjusted FTE					
	GMENAC	1.1	2	Surplus:	1	2
	Kaiser Portland	0.3	0	Surplus:	3	1
	7 Kaiser Plans					
	GHC Seattle	0.4	1	Surplus:	2	1
	Three HMOs					
	Goodman	1.1	2	Surplus:	1	2
	Hicks & Glenn	2.3	3	Adequate	0	4
	Solucient	2.2	3	Adequate	0	4
	Average Requirement	1.2	2	Surplus:	1	2

		20	008 Actual		2015 Projected
Physician Specialty	Physician Specialty		Physicians	/100k	Population
Psychiatry		138,719	8	5.8	181,961
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	3	Physician Need
AMA	13.6	19	Deficit:	-11	25
Two Mature HMO	7.7	11	Deficit:	-3	14
Adjusted FTE	7.2	10	Deficit:	-2	13
GMENAC	15.4	21	Deficit:	-13	28
Kaiser Portland	5.2	7	Surplus:	1	9
7 Kaiser Plans	4.1	6	Surplus:	2	7
GHC Seattle					
Three HMOs					
Goodman	7.2	10	Deficit:	-2	13
Hicks & Glenn	3.9	5	Surplus:	3	7
Solucient	5.7	8	Adequate	0	10
Average Requirement	7.1	10	Deficit:	-2	13

			2	008 Actual		2015 Projected
Physic	Physician Specialty		Population	Physicians	/100k	Population
Pulmo	onary Diseases		138,719	3	2.2	181,961
	National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Statu	S	Physician Need
	AMA	3.5	5	Deficit:	-2	6
	Two Mature HMO	2.0	3	Adequate	0	4
	Adjusted FTE	1.9	3	Adequate	0	3
	GMENAC	1.4	2	Surplus:	1	3
	Kaiser Portland	1.4	2	Surplus:	1	3
	7 Kaiser Plans	1.0	1	Surplus:	2	2
	GHC Seattle	1.4	2	Surplus:	1	3
	Three HMOs					
	Goodman	1.4	2	Surplus:	1	3
	Hicks & Glenn					
	Solucient	1.3	2	Surplus:	1	2
	Average Requirement	1.5	2	Surplus:	1	3

		2	008 Actual		2015 Projected
Physician Specialty	Physician Specialty		Physicians	/100k	Population
Radiology		138,719	6	4.3	181,961
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	S	Physician Need
AMA	11.4	16	Deficit:	-10	21
Two Mature HMO	13.6	19	Deficit:	-13	25
Adjusted FTE	13.7	19	Deficit:	-13	25
GMENAC	7.7	11	Deficit:	-5	14
Kaiser Portland	8.5	12	Deficit:	-6	15
7 Kaiser Plans	4.7	7	Deficit:	-1	9
GHC Seattle	7.7	11	Deficit:	-5	14
Three HMOs					
Goodman	8.0	11	Deficit:	-5	15
Hicks & Glenn					
Solucient					
Average Requirement	9.1	13	Deficit:	-7	17

			2	008 Actual		2015 Projected
Phys	ician Specialty		Population	Physicians	/100k	Population
Rheu	ımatology		138,719	1	0.7	181,961
	National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Statu	S	Physician Need
	AMA	1.5	2	Deficit:	-1	3
	Two Mature HMO	1.1	2	Deficit:	-1	2
	Adjusted FTE	1.0	1	Adequate	0	2
	GMENAC	0.7	1	Adequate	0	1
	Kaiser Portland	0.4	1	Adequate	0	1
	7 Kaiser Plans	0.7	1	Adequate	0	1
	GHC Seattle	0.7	1	Adequate	0	1
	Three HMOs					
	Goodman	0.4	1	Adequate	0	1
	Hicks & Glenn					
	Solucient	1.3	2	Deficit:	-1	2
	Average Requirement	0.8	1	Adequate	0	1

		2	008 Actual		2015 Projecte
Physician Specialty	Physician Specialty		Physicians	/100k	Population
General Surgery		138,719	5	3.6	181,961
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	3	Physician Need
AMA	12.5	17	Deficit:	-12	23
Two Mature HMO	9.4	13	Deficit:	-8	17
Adjusted FTE	8.8	12	Deficit:	-7	16
GMENAC	9.7	13	Deficit:	-8	18
Kaiser Portland	7.0	10	Deficit:	-5	13
7 Kaiser Plans	6.2	9	Deficit:	-4	11
GHC Seattle	5.9	8	Deficit:	-3	11
Three HMOs	4.2	6	Deficit:	-1	8
Goodman	9.7	13	Deficit:	-8	18
Hicks & Glenn	4.1	6	Deficit:	-1	7
Solucient	6.0	8	Deficit:	-3	11
Average Requirement	7.1	10	Deficit:	-5	13

			2	008 Actual		2015 Projected
Physician	Specialty		Population	Physicians	/100k	Population
Urology			138,719	2	1.4	181,961
	National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Statu	s	Physician Need
•	AMA	3.5	5	Deficit:	-3	6
	Two Mature HMO	3.5	5	Deficit:	-3	6
	Adjusted FTE	3.3	5	Deficit:	-3	6
	GMENAC	3.1	4	Deficit:	-2	6
	Kaiser Portland	3.3	5	Deficit:	-3	6
	7 Kaiser Plans	2.3	3	Deficit:	-1	4
	GHC Seattle	2.9	4	Deficit:	-2	5
	Three HMOs					
	Goodman	2.6	4	Deficit:	-2	5
	Hicks & Glenn	1.9	3	Deficit:	-1	3
	Solucient	2.9	4	Deficit:	-2	5
	Average Requirement	2.9	4	Deficit:	-2	5

Included Counties: Forsyth

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.Rosenblah. 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 328:1480152. 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.
- (10) Forte, G.J., Dionne, M., Beaulieu, M., and Salsberg, E. Profile of New York State Physicians. Rensselaer, NY: Center for Health Workforce Studies, School of Public Health, SUNY Albany. April 2001.
- (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.