		2	008 Actual		2015 Projected
Physician Specialty	Physician Specialty		Physicians	/100k	Population
Emergency Medicine		15,736	1	6.4	18,640
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Sta	tus	Physician Need
AMA	10.5	2	Deficit:	-1	2
Two Mature HMO	5.5	1	Adequate	0	1
Adjusted FTE	5.2	1	Adequate	0	1
GMENAC	5.4	1	Adequate	0	1
Kaiser Portland	6.7	1	Adequate	0	1
7 Kaiser Plans	5.3	1	Adequate	0	1
GHC Seattle					
Three HMOs					
Goodman	2.7	0	Surplus:	1	1
Hicks & Glenn					
Solucient	12.4	2	Deficit:	-1	2
Average Requirement	6.2	1	Adequate	0	1

			2	008 Actual		2015 Projected
Physici	ian Specialty		Population	Physicians	/100k	Population
Family	Practice		15,736	7	44.5	18,640
	National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Sta	tus	Physician Need
	AMA	31.5	5	Surplus:	2	6
	Two Mature HMO	45.6	7	Adequate	0	8
	Adjusted FTE	42.6	7	Adequate	0	8
	GMENAC	25.2	4	Surplus:	3	5
	Kaiser Portland	16.7	3	Surplus:	4	2
	7 Kaiser Plans	11.0	2	Surplus:	5	2
	GHC Seattle					
	Three HMOs	9.2	1	Surplus:	6	2
	Goodman					
	Hicks & Glenn	16.2	3	Surplus:	4	3
	Solucient	22.5	4	Surplus:	3	4
	Average Requirement	23.6	4	Surplus:	3	4

			2	008 Actual		2015 Projected
Physician :	Physician Specialty		Population	Physicians	/100k	Population
Internal M	edicine		15,736	4	25.4	18,640
	National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Sta	tus	Physician Need
_	AMA	53.1	8	Deficit:	-4	10
_	Two Mature HMO	21.4	3	Surplus:	1	4
_	Adjusted FTE	20.0	3	Surplus:	1	4
_	GMENAC	28.8	5	Deficit:	-1	5
_	Kaiser Portland	28.1	4	Adequate	0	6
_	7 Kaiser Plans	30.3	5	Deficit:	-1	6
_	GHC Seattle					
_	Three HMOs	16.7	3	Surplus:	1	3
_	Goodman					
_	Hicks & Glenn	11.3	2	Surplus:	2	2
	Solucient	19.0	3	Surplus:	1	4
_	Average Requirement	22.0	3	Surplus:	1	4

			2	008 Actual		2015 Projected
Physician	Physician Specialty		Population	Physicians	/100k	Population
OB/GYN			15,736	4	25.4	18,640
	National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Sta	tus	Physician Need
-	AMA	14.1	2	Surplus:	2	3
-	Two Mature HMO	12.1	2	Surplus:	2	2
=	Adjusted FTE	11.3	2	Surplus:	2	2
-	GMENAC	9.9	2	Surplus:	2	2
-	Kaiser Portland	11.6	2	Surplus:	2	2
-	7 Kaiser Plans	11.5	2	Surplus:	2	2
-	GHC Seattle	10.0	2	Surplus:	2	2
-	Three HMOs	8.8	1	Surplus:	3	2
-	Goodman	8.4	1	Surplus:	3	2
-	Hicks & Glenn	8.0	1	Surplus:	3	1
-	Solucient	10.2	2	Surplus:	2	2
-	Average Requirement	10.2	2	Surplus:	2	2

			2	008 Actual		2015 Projected
Physician	Specialty		Population	Physicians	/100k	Population
Orthoped	dic Surgery		15,736	1	6.4	18,640
	National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Sta	tus	Physician Need
•	AMA	8.3	1	Adequate	0	2
-	Two Mature HMO	6.8	1	Adequate	0	1
•	Adjusted FTE	6.4	1	Adequate	0	1
-	GMENAC	6.0	1	Adequate	0	1
- -	Kaiser Portland	5.9	1	Adequate	0	1
-	7 Kaiser Plans	4.2	1	Adequate	0	1
-	GHC Seattle	6.7	1	Adequate	0	1
-	Three HMOs	3.0	0	Surplus:	1	1
-	Goodman	5.9	1	Adequate	0	1
-	Hicks & Glenn	4.2	1	Adequate	0	1
-	Solucient	6.1	1	Adequate	0	1
-	Average Requirement	5.5	1	Adequate	0	1

			2	008 Actual		2015 Projected
Physician	Specialty		Population	Physicians	/100k	Population
Pediatric	s		15,736	2	12.7	18,640
	National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Sta	tus	Physician Need
•	AMA	24.9	4	Deficit:	-2	5
-	Two Mature HMO	16.6	3	Deficit:	-1	3
-	Adjusted FTE	15.5	2	Adequate	0	3
-	GMENAC	12.4	2	Adequate	0	2
-	Kaiser Portland	11.9	2	Adequate	0	3
-	7 Kaiser Plans	16.0	3	Deficit:	-1	3
-	GHC Seattle					
-	Three HMOs	9.8	2	Adequate	0	2
-	Goodman					
-	Hicks & Glenn	7.6	1	Surplus:	1	1
-	Solucient	13.9	2	Adequate	0	3
-	Average Requirement	13.0	2	Adequate	0	2

			2	008 Actual		2015 Projected
Physician Specialty		y P	Population	Physicians	/100k	Population
Psychiatry	Psychiatry		15,736	1	6.4	18,640
National F Standards		Standard Phys/100,000 Pop.	Physician Need	Sta	tus	Physician Need
AMA		13.6	2	Deficit:	-1	3
Two Matu	ire HMO	7.7	1	Adequate	0	1
Adjusted	FTE	7.2	1	Adequate	0	1
GMENAC	;	15.4	2	Deficit:	-1	3
Kaiser Po	rtland	5.2	1	Adequate	0	1
7 Kaiser F	Plans	4.1	1	Adequate	0	1
GHC Sea	ttle					
Three HM	lOs					
Goodman	1	7.2	1	Adequate	0	1
Hicks & G	ilenn	3.9	1	Adequate	0	1
Solucient		5.7	1	Adequate	0	1
Average F	Requirement	7.1	1	Adequate	0	1

			2	008 Actual		2015 Projected
Physician	Specialty		Population	Physicians	/100k	Population
Radiology	,		15,736	1	6.4	18,640
	National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Sta	tus	Physician Need
_	AMA	11.4	2	Deficit:	-1	2
_	Two Mature HMO	13.6	2	Deficit:	-1	3
=	Adjusted FTE	13.7	2	Deficit:	-1	3
_	GMENAC	7.7	1	Adequate	0	1
_	Kaiser Portland	8.5	1	Adequate	0	1
=	7 Kaiser Plans	4.7	1	Adequate	0	1
_	GHC Seattle	7.7	1	Adequate	0	1
_	Three HMOs					
_	Goodman	8.0	1	Adequate	0	1
_	Hicks & Glenn					
_	Solucient					
_	Average Requirement	9.1	1	Adequate	0	2

			2008 Actual		2015 Projected
Physician Specialty	Physician Specialty		Physicians	/100k	Population
General Surgery		15,736	3	19.1	18,640
National Phys Standards*	sician Standard Phys/100,000 Pop		Sta	tus	Physician Need
AMA	12.5	5 2	Surplus:	1	2
Two Mature I	HMO 9.4	. 1	Surplus:	2	2
Adjusted FTE	8.8	1	Surplus:	2	2
GMENAC	9.7	2	Surplus:	1	2
Kaiser Portla	nd 7.0	1	Surplus:	2	1
7 Kaiser Plan	s 6.2	! 1	Surplus:	2	1
GHC Seattle	5.9	1	Surplus:	2	1
Three HMOs	4.2	! 1	Surplus:	2	1
Goodman	9.7	2	Surplus:	1	2
Hicks & Glen	n 4.1	1	Surplus:	2	1
Solucient	6.0	1	Surplus:	2	1
Average Req	uirement 7.1	1	Surplus:	2	1

			2	008 Actual		2015 Projected
Physician	Physician Specialty		Population	Physicians	/100k	Population
Urology			15,736	1	6.4	18,640
	National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Sta	tus	Physician Need
,	AMA	3.5	1	Adequate	0	1
	Two Mature HMO	3.5	1	Adequate	0	1
	Adjusted FTE	3.3	1	Adequate	0	1
	GMENAC	3.1	0	Surplus:	1	1
	Kaiser Portland	3.3	1	Adequate	0	0
	7 Kaiser Plans	2.3	0	Surplus:	1	0
	GHC Seattle	2.9	0	Surplus:	1	1
	Three HMOs					
	Goodman	2.6	0	Surplus:	1	0
	Hicks & Glenn	1.9	0	Surplus:	1	0
,	Solucient	2.9	0	Surplus:	1	1
	Average Requirement	2.9	0	Surplus:	1	1

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.