		2	008 Actual		2015 Projected
Physician Specialty		Population	Physicians	/100k	Population
Allergy & Immunology		308,081	3	1.0	324,609
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	3	Physician Need
AMA	1.4	4	Deficit:	-1	5
Two Mature HMO	1.5	5	Deficit:	-2	5
Adjusted FTE	1.4	4	Deficit:	-1	5
GMENAC	0.8	2	Surplus:	1	3
Kaiser Portland	1.7	5	Deficit:	-2	6
7 Kaiser Plans	1.2	4	Deficit:	-1	4
GHC Seattle	1.1	3	Adequate	0	4
Three HMOs					
Goodman	1.3	4	Deficit:	-1	4
Hicks & Glenn					
Solucient	1.7	5	Deficit:	-2	6
Average Requirement	1.3	4	Deficit:	-1	4

			20	008 Actual		2015 Projected
Physician Specia	lty		Population	Physicians	/100k	Population
Anesthesiology			308,081	21	6.8	324,609
Nation Standa	al Physician ards*	Standard Phys/100,000 Pop.	Physician Need	Status	3	Physician Need
AMA		14.0	43	Deficit:	-22	45
Two M	lature HMO	9.7	30	Deficit:	-9	31
Adjust	ed FTE	9.1	28	Deficit:	-7	30
GMEN	IAC	8.9	27	Deficit:	-6	29
Kaiser	Portland	5.9	18	Surplus:	3	19
7 Kais	er Plans	3.9	12	Surplus:	9	13
GHC	Seattle	9.0	28	Deficit:	-7	29
Three	HMOs					
Goodr	nan	7.0	22	Deficit:	-1	23
Hicks	& Glenn					
Soluci	ent					
Avera	ge Requirement	7.6	23	Deficit:	-2	25

		2	008 Actual		2015 Projected
Physician Specialty		Population	Physicians	/100k	Population
Cardiovascular Diseases		308,081	13	4.2	324,609
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	3	Physician Need
AMA	7.5	23	Deficit:	-10	24
Two Mature HMO	5.4	17	Deficit:	-4	18
Adjusted FTE	5.0	15	Deficit:	-2	16
GMENAC	3.1	10	Surplus:	3	10
Kaiser Portland	3.0	9	Surplus:	4	10
7 Kaiser Plans	1.8	6	Surplus:	7	6
GHC Seattle	2.9	9	Surplus:	4	9
Three HMOs					
Goodman	3.6	11	Surplus:	2	12
Hicks & Glenn	2.6	8	Surplus:	5	8
Solucient	4.2	13	Adequate	0	14
Average Requiremer	nt 3.5	11	Surplus:	2	11

			2	008 Actual		2015 Projecte
Physic	cian Specialty		Population	Physicians	/100k	Population
Derm	atology		308,081	14	4.5	324,609
	National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	3	Physician Need
	AMA	3.7	11	Surplus:	3	12
	Two Mature HMO	2.8	9	Surplus:	5	9
	Adjusted FTE	2.6	8	Surplus:	6	8
	GMENAC	2.8	9	Surplus:	5	9
	Kaiser Portland	2.5	8	Surplus:	6	8
	7 Kaiser Plans	2.4	7	Surplus:	7	8
	GHC Seattle	2.6	8	Surplus:	6	8
	Three HMOs	1.6	5	Surplus:	9	5
	Goodman	1.4	4	Surplus:	10	5
	Hicks & Glenn	2.1	6	Surplus:	8	7
	Solucient	3.1	10	Surplus:	4	10
	Average Requirement	2.4	7	Surplus:	7	8

		2	008 Actual		2015 Projecte
Physician Specialty		Population	Physicians	/100k	Population
Emergency Medicine		308,081	43	14.0	324,609
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	3	Physician Need
AMA	10.5	32	Surplus:	11	34
Two Mature HMO	5.5	17	Surplus:	26	18
Adjusted FTE	5.2	16	Surplus:	27	17
GMENAC	5.4	17	Surplus:	26	18
Kaiser Portland	6.7	21	Surplus:	22	22
7 Kaiser Plans	5.3	16	Surplus:	27	17
GHC Seattle					
Three HMOs					
Goodman	2.7	8	Surplus:	35	9
Hicks & Glenn					
Solucient	12.4	38	Surplus:	5	40
Average Requiremen	t 6.2	19	Surplus:	24	20

			2	008 Actual		2015 Projected
Physic	Physician Specialty		Population	Physicians	/100k	Population
Endo	crinology, Diabetes & Me	etabolism	308,081	1	0.3	324,609
	National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Statu	s	Physician Need
	AMA	1.8	6	Deficit:	-5	6
	Two Mature HMO	1.1	3	Deficit:	-2	4
	Adjusted FTE	1.0	3	Deficit:	-2	3
	GMENAC	0.8	2	Deficit:	-1	3
	Kaiser Portland	0.9	3	Deficit:	-2	3
	7 Kaiser Plans	1.1	3	Deficit:	-2	4
	GHC Seattle					
	Three HMOs	0.6	2	Deficit:	-1	2
	Goodman					
	Hicks & Glenn					
	Solucient					
	Average Requirement	0.9	3	Deficit:	-2	3

		2	008 Actual		2015 Projected
Physician Specialty		Population	Physicians	/100k	Population
Family Practice		308,081	78	25.3	324,609
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	3	Physician Need
AMA	31.5	97	Deficit:	-19	102
Two Mature HMO	45.6	140	Deficit:	-62	148
Adjusted FTE	42.6	131	Deficit:	-53	138
GMENAC	25.2	78	Adequate	0	82
Kaiser Portland	16.7	51	Surplus:	27	54
7 Kaiser Plans	11.0	34	Surplus:	44	36
GHC Seattle					
Three HMOs	9.2	28	Surplus:	50	30
Goodman					
Hicks & Glenn	16.2	50	Surplus:	28	53
Solucient	22.5	69	Surplus:	9	73
Average Requiremer	nt 23.6	73	Surplus:	5	77

			2	008 Actual		2015 Projected
Physic	cian Specialty		Population	Physicians	/100k	Population
Gastr	oenterology		308,081	6	1.9	324,609
	National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Statu	s	Physician Need
	AMA	4.2	13	Deficit:	-7	14
	Two Mature HMO	3.1	10	Deficit:	-4	10
	Adjusted FTE					
	GMENAC	3.2	10	Deficit:	-4	10
	Kaiser Portland	1.7	5	Surplus:	1	6
	7 Kaiser Plans	1.7	5	Surplus:	1	6
	GHC Seattle					
	Three HMOs					
	Goodman	1.3	4	Surplus:	2	4
	Hicks & Glenn					
	Solucient	3.5	11	Deficit:	-5	11
	Average Requirement	2.4	7	Deficit:	-1	8

			2	008 Actual		2015 Projected
Physician Spec	ialty		Population	Physicians	/100k	Population
Internal Medici	ne		308,081	69	22.4	324,609
	onal Physician ndards*	Standard Phys/100,000 Pop.	Physician Need	Status	3	Physician Need
AMA	A	53.1	164	Deficit:	-95	172
Two	Mature HMO	21.4	66	Surplus:	3	69
Adju	sted FTE	20.0	62	Surplus:	7	65
GMI	ENAC	28.8	89	Deficit:	-20	93
Kais	er Portland	28.1	87	Deficit:	-18	91
7 Ka	iser Plans	30.3	93	Deficit:	-24	98
GHO	Seattle					
Thre	ee HMOs	16.7	51	Surplus:	18	54
Goo	dman					
Hick	s & Glenn	11.3	35	Surplus:	34	37
Solu	ıcient	19.0	59	Surplus:	10	62
Ave	rage Requirement	22.0	68	Surplus:	1	71

			2	008 Actual		2015 Projected
Phys	ician Specialty		Population	Physicians	/100k	Population
Neph	nrology		308,081	9	2.9	324,609
	National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	S	Physician Need
	AMA	2.6	8	Surplus:	1	8
	Two Mature HMO	1.4	4	Surplus:	5	5
	Adjusted FTE	1.3	4	Surplus:	5	4
	GMENAC	1.1	3	Surplus:	6	4
	Kaiser Portland	0.8	2	Surplus:	7	3
	7 Kaiser Plans	0.7	2	Surplus:	7	2
	GHC Seattle	0.9	3	Surplus:	6	3
	Three HMOs					
	Goodman					
	Hicks & Glenn					
	Solucient	0.7	2	Surplus:	7	2
	Average Requirement	1.0	3	Surplus:	6	3

		2	008 Actual		2015 Projecte
Physician Specialty		Population	Physicians	/100k	Population
Neurological Surgery		308,081	7	2.3	324,609
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	3	Physician Need
AMA	1.9	6	Surplus:	1	6
Two Mature HMO	1.1	3	Surplus:	4	4
Adjusted FTE	1.0	3	Surplus:	4	3
GMENAC	1.1	3	Surplus:	4	4
Kaiser Portland	1.4	4	Surplus:	3	5
7 Kaiser Plans					
GHC Seattle	0.4	1	Surplus:	6	1
Three HMOs					
Goodman	0.7	2	Surplus:	5	2
Hicks & Glenn					
Solucient					
Average Requiremen	nt 1.0	3	Surplus:	4	3

			2	008 Actual		2015 Projecte
Physician Specialty			Population	Physicians	/100k	Population
Neurol	leurology		308,081	9	2.9	324,609
	National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Statu	S	Physician Need
	AMA	5.0	15	Deficit:	-6	16
	Two Mature HMO	2.4	7	Surplus:	2	8
	Adjusted FTE	2.3	7	Surplus:	2	7
	GMENAC	3.3	10	Deficit:	-1	11
	Kaiser Portland	1.3	4	Surplus:	5	4
	7 Kaiser Plans	1.7	5	Surplus:	4	6
	GHC Seattle	1.2	4	Surplus:	5	4
	Three HMOs					
	Goodman	2.1	6	Surplus:	3	7
	Hicks & Glenn	1.4	4	Surplus:	5	5
	Solucient	1.8	6	Surplus:	3	6
	Average Requirement	1.9	6	Surplus:	3	6

			2	008 Actual		2015 Projected
Physician	Specialty		Population	Physicians	/100k	Population
OB/GYN			308,081	29	9.4	324,609
	National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	3	Physician Need
•	AMA	14.1	43	Deficit:	-14	46
•	Two Mature HMO	12.1	37	Deficit:	-8	39
•	Adjusted FTE	11.3	35	Deficit:	-6	37
-	GMENAC	9.9	31	Deficit:	-2	32
	Kaiser Portland	11.6	36	Deficit:	-7	38
-	7 Kaiser Plans	11.5	35	Deficit:	-6	37
	GHC Seattle	10.0	31	Deficit:	-2	32
	Three HMOs	8.8	27	Surplus:	2	29
	Goodman	8.4	26	Surplus:	3	27
-	Hicks & Glenn	8.0	25	Surplus:	4	26
	Solucient	10.2	31	Deficit:	-2	33
-	Average Requirement	10.2	31	Deficit:	-2	33

			2	008 Actual		2015 Projecte
Physi	ician Specialty		Population	Physicians	/100k	Population
Opth	almology		308,081	10	3.2	324,609
	National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	S	Physician Need
	AMA	6.0	18	Deficit:	-8	19
	Two Mature HMO	5.9	18	Deficit:	-8	19
	Adjusted FTE	5.5	17	Deficit:	-7	18
	GMENAC	4.6	14	Deficit:	-4	15
	Kaiser Portland	2.4	7	Surplus:	3	8
	7 Kaiser Plans	3.1	10	Adequate	0	10
	GHC Seattle	5.0	15	Deficit:	-5	16
	Three HMOs					
	Goodman	3.5	11	Deficit:	-1	11
	Hicks & Glenn	3.2	10	Adequate	0	10
	Solucient	4.7	15	Deficit:	-5	15
	Average Requirement	4.2	13	Deficit:	-3	14

		2	008 Actual		2015 Projected
Physician Specialty		Population	Physicians	/100k	Population
Orthopedic Surgery		308,081	14	4.5	324,609
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	i	Physician Need
AMA	8.3	26	Deficit:	-12	27
Two Mature HMO	6.8	21	Deficit:	-7	22
Adjusted FTE	6.4	20	Deficit:	-6	21
GMENAC	6.0	18	Deficit:	-4	19
Kaiser Portland	5.9	18	Deficit:	-4	19
7 Kaiser Plans	4.2	13	Surplus:	1	14
GHC Seattle	6.7	21	Deficit:	-7	22
Three HMOs	3.0	9	Surplus:	5	10
Goodman	5.9	18	Deficit:	-4	19
Hicks & Glenn	4.2	13	Surplus:	1	14
Solucient	6.1	19	Deficit:	-5	20
Average Requirement	nt 5.5	17	Deficit:	-3	18

			2	008 Actual		2015 Projected
Physic	cian Specialty		Population	Physicians	/100k	Population
Otola	ryngology		308,081	6	1.9	324,609
	National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Statu	s	Physician Need
	AMA	3.4	10	Deficit:	-4	11
	Two Mature HMO	3.2	10	Deficit:	-4	10
	Adjusted FTE					
	GMENAC	3.2	10	Deficit:	-4	10
	Kaiser Portland	3.4	10	Deficit:	-4	11
	7 Kaiser Plans	2.4	7	Deficit:	-1	8
	GHC Seattle	3.0	9	Deficit:	-3	10
	Three HMOs					
	Goodman					
	Hicks & Glenn					
	Solucient					
	Average Requirement	3.0	9	Deficit:	-3	10

		2	008 Actual		2015 Projected
Physician Specialty		Population	Physicians	/100k	Population
Pathology		308,081	7	2.3	324,609
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	S	Physician Need
AMA	6.3	19	Deficit:	-12	20
Two Mature HMO	1.9	6	Surplus:	1	6
Adjusted FTE	1.8	6	Surplus:	1	6
GMENAC	6.4	20	Deficit:	-13	21
Kaiser Portland	3.3	10	Deficit:	-3	11
7 Kaiser Plans	1.8	6	Surplus:	1	6
GHC Seattle					
Three HMOs					
Goodman	4.1	13	Deficit:	-6	13
Hicks & Glenn					
Solucient					
Average Requireme	ent 3.2	10	Deficit:	-3	10

		2	008 Actual		2015 Projected
Physician Specialty		Population	Physicians	/100k	Population
Pediatrics		308,081	37	12.0	324,609
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	6	Physician Need
AMA	24.9	77	Deficit:	-40	81
Two Mature HMO	16.6	51	Deficit:	-14	54
Adjusted FTE	15.5	48	Deficit:	-11	50
GMENAC	12.4	38	Deficit:	-1	40
Kaiser Portland	11.9	37	Adequate	0	39
7 Kaiser Plans	16.0	49	Deficit:	-12	52
GHC Seattle					
Three HMOs	9.8	30	Surplus:	7	32
Goodman					
Hicks & Glenn	7.6	23	Surplus:	14	25
Solucient	13.9	43	Deficit:	-6	45
Average Requirement	13.0	40	Deficit:	-3	42

		2	008 Actual		2015 Projected
Physician Specialty		Population	Physicians	/100k	Population
Plastic Surgery		308,081	7	2.3	324,609
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	3	Physician Need
AMA	2.4	7	Adequate	0	8
Two Mature HMO					
Adjusted FTE					
GMENAC	1.1	3	Surplus:	4	4
Kaiser Portland	0.3	1	Surplus:	6	1
7 Kaiser Plans					
GHC Seattle	0.4	1	Surplus:	6	1
Three HMOs					
Goodman	1.1	3	Surplus:	4	4
Hicks & Glenn	2.3	7	Adequate	0	7
Solucient	2.2	7	Adequate	0	7
Average Requirement	1.2	4	Surplus:	3	4

			2	008 Actual		2015 Projected
Physic	ian Specialty		Population	Physicians	/100k	Population
Psychi	iatry		308,081	28	9.1	324,609
	National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	5	Physician Need
	AMA	13.6	42	Deficit:	-14	44
	Two Mature HMO	7.7	24	Surplus:	4	25
	Adjusted FTE	7.2	22	Surplus:	6	23
	GMENAC	15.4	47	Deficit:	-19	50
	Kaiser Portland	5.2	16	Surplus:	12	17
	7 Kaiser Plans	4.1	13	Surplus:	15	13
	GHC Seattle					
	Three HMOs					
	Goodman	7.2	22	Surplus:	6	23
	Hicks & Glenn	3.9	12	Surplus:	16	13
	Solucient	5.7	18	Surplus:	10	19
	Average Requirement	7.1	22	Surplus:	6	23

		2	008 Actual		2015 Projected
Physician Specialty	Population	Population	Physicians	/100k	Population
Pulmonary Diseases		308,081	7	2.3	324,609
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	3	Physician Need
AMA	3.5	11	Deficit:	-4	11
Two Mature HMO	2.0	6	Surplus:	1	6
Adjusted FTE	1.9	6	Surplus:	1	6
GMENAC	1.4	4	Surplus:	3	5
Kaiser Portland	1.4	4	Surplus:	3	5
7 Kaiser Plans	1.0	3	Surplus:	4	3
GHC Seattle	1.4	4	Surplus:	3	5
Three HMOs					
Goodman	1.4	4	Surplus:	3	5
Hicks & Glenn					
Solucient	1.3	4	Surplus:	3	4
Average Requirement	t 1.5	5	Surplus:	2	5

			2	008 Actual		2015 Projected
Physician S	specialty		Population	Physicians	/100k	Population
Radiology			308,081	20	6.5	324,609
	National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	5	Physician Need
_	AMA	11.4	35	Deficit:	-15	37
	Two Mature HMO	13.6	42	Deficit:	-22	44
_	Adjusted FTE	13.7	42	Deficit:	-22	44
	GMENAC	7.7	24	Deficit:	-4	25
	Kaiser Portland	8.5	26	Deficit:	-6	28
_	7 Kaiser Plans	4.7	14	Surplus:	6	15
	GHC Seattle	7.7	24	Deficit:	-4	25
	Three HMOs					
_	Goodman	8.0	25	Deficit:	-5	26
_	Hicks & Glenn					
_	Solucient					
	Average Requirement	9.1	28	Deficit:	-8	30

			2	008 Actual		2015 Projecte
Physician S	Specialty		Population	Physicians	0.3	Population
Rheumatol	logy		308,081	1		324,609
	National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	3	Physician Need
	AMA	1.5	5	Deficit:	-4	5
_	Two Mature HMO	1.1	3	Deficit:	-2	4
_	Adjusted FTE	1.0	3	Deficit:	-2	3
_	GMENAC	0.7	2	Deficit:	-1	2
_	Kaiser Portland	0.4	1	Adequate	0	1
_	7 Kaiser Plans	0.7	2	Deficit:	-1	2
_	GHC Seattle	0.7	2	Deficit:	-1	2
_	Three HMOs					
_	Goodman	0.4	1	Adequate	0	1
_	Hicks & Glenn					
_	Solucient	1.3	4	Deficit:	-3	4
	Average Requirement	0.8	2	Deficit:	-1	3

			2	008 Actual		2015 Projecte
Physic	cian Specialty		Population	Physicians	/100k	Population
Gener	ral Surgery		308,081	17	5.5	324,609
	National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	3	Physician Need
	AMA	12.5	39	Deficit:	-22	41
	Two Mature HMO	9.4	29	Deficit:	-12	31
	Adjusted FTE	8.8	27	Deficit:	-10	29
	GMENAC	9.7	30	Deficit:	-13	31
	Kaiser Portland	7.0	22	Deficit:	-5	23
	7 Kaiser Plans	6.2	19	Deficit:	-2	20
	GHC Seattle	5.9	18	Deficit:	-1	19
	Three HMOs	4.2	13	Surplus:	4	14
	Goodman	9.7	30	Deficit:	-13	31
	Hicks & Glenn	4.1	13	Surplus:	4	13
	Solucient	6.0	19	Deficit:	-2	20
	Average Requirement	7.1	22	Deficit:	-5	23

	2008 Actual			2015 Projected	
Physician Specialty Thoracic Surgery		Population 308,081	Physicians	/100k 0.3	Population 324,609
			1		
National Physicia Standards*	an Standard Phys/100,000 Pop.	Physician Need	Status	3	Physician Need
AMA	1.5	5	Deficit:	-4	5
Two Mature HMC)				
Adjusted FTE					
GMENAC	0.8	2	Deficit:	-1	3
Kaiser Portland	0.1	0	Surplus:	1	0
7 Kaiser Plans					
GHC Seattle					
Three HMOs					
Goodman					
Hicks & Glenn					
Solucient					
Average Require	ment 0.5	2	Deficit:	-1	2

			2008 Actual			2015 Projected
Physician Specialty		Population	Physicians	/100k	Population	
Urology			308,081	13	4.2	324,609
	National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	S	Physician Need
•	AMA	3.5	11	Surplus:	2	11
	Two Mature HMO	3.5	11	Surplus:	2	11
•	Adjusted FTE	3.3	10	Surplus:	3	11
	GMENAC	3.1	10	Surplus:	3	10
-	Kaiser Portland	3.3	10	Surplus:	3	11
	7 Kaiser Plans	2.3	7	Surplus:	6	7
	GHC Seattle	2.9	9	Surplus:	4	9
-	Three HMOs					
	Goodman	2.6	8	Surplus:	5	8
	Hicks & Glenn	1.9	6	Surplus:	7	6
	Solucient	2.9	9	Surplus:	4	9
-	Average Requirement	2.9	9	Surplus:	4	9

Included Counties: Barrow, Clarke, Jackson, Madison, Morgan, Oconee, Oglethorpe

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.