

4 SCSA Physician Standard Report

Included Counties: Butts, Carroll, Coweta, Heard, Lamar, Meriwether, Pike, Spalding, Troup, Upson

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k		Population
Allergy & Immunology		453,539	3	0.7	501,976
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	1.4	6	Deficit: -3	7	
Two Mature HMO	1.5	7	Deficit: -4	8	
Adjusted FTE	1.4	6	Deficit: -3	7	
GMENAC	0.8	4	Deficit: -1	4	
Kaiser Portland	1.7	8	Deficit: -5	9	
7 Kaiser Plans	1.2	5	Deficit: -2	6	
GHC Seattle	1.1	5	Deficit: -2	6	
Three HMOs					
Goodman	1.3	6	Deficit: -3	7	
Hicks & Glenn					
Solucient	1.7	8	Deficit: -5	9	
Average Requirement	1.3	6	Deficit: -3	7	

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k		Population
Anesthesiology		453,539	29	6.4	501,976
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	14.0	63	Deficit: -34	70	
Two Mature HMO	9.7	44	Deficit: -15	49	
Adjusted FTE	9.1	41	Deficit: -12	46	
GMENAC	8.9	40	Deficit: -11	45	
Kaiser Portland	5.9	27	Surplus: 2	30	
7 Kaiser Plans	3.9	18	Surplus: 11	20	
GHC Seattle	9.0	41	Deficit: -12	45	
Three HMOs					
Goodman	7.0	32	Deficit: -3	35	
Hicks & Glenn					
Solucient					
Average Requirement	7.6	34	Deficit: -5	38	

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Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k		Population
Cardiovascular Diseases		453,539	15	3.3	501,976
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	7.5	34	Deficit: -19	38	
Two Mature HMO	5.4	24	Deficit: -9	27	
Adjusted FTE	5.0	23	Deficit: -8	25	
GMENAC	3.1	14	Surplus: 1	16	
Kaiser Portland	3.0	14	Surplus: 1	15	
7 Kaiser Plans	1.8	8	Surplus: 7	9	
GHC Seattle	2.9	13	Surplus: 2	15	
Three HMOs					
Goodman	3.6	16	Deficit: -1	18	
Hicks & Glenn	2.6	12	Surplus: 3	13	
Solucient	4.2	19	Deficit: -4	21	
Average Requirement	3.5	16	Deficit: -1	18	

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k		Population
Dermatology		453,539	8	1.8	501,976
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	3.7	17	Deficit: -9	19	
Two Mature HMO	2.8	13	Deficit: -5	14	
Adjusted FTE	2.6	12	Deficit: -4	13	
GMENAC	2.8	13	Deficit: -5	14	
Kaiser Portland	2.5	11	Deficit: -3	13	
7 Kaiser Plans	2.4	11	Deficit: -3	12	
GHC Seattle	2.6	12	Deficit: -4	13	
Three HMOs	1.6	7	Surplus: 1	8	
Goodman	1.4	6	Surplus: 2	7	
Hicks & Glenn	2.1	10	Deficit: -2	11	
Solucient	3.1	14	Deficit: -6	16	
Average Requirement	2.4	11	Deficit: -3	12	

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Physician Specialty	2008 Actual			2015 Projected
	Population	Physicians /100k		Population
Emergency Medicine	453,539	46	10.1	501,976
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	10.5	48	Deficit: -2	53
Two Mature HMO	5.5	25	Surplus: 21	28
Adjusted FTE	5.2	24	Surplus: 22	26
GMENAC	5.4	24	Surplus: 22	27
Kaiser Portland	6.7	30	Surplus: 16	34
7 Kaiser Plans	5.3	24	Surplus: 22	27
GHC Seattle				
Three HMOs				
Goodman	2.7	12	Surplus: 34	14
Hicks & Glenn				
Solucient	12.4	56	Deficit: -10	62
Average Requirement	6.2	28	Surplus: 18	31

Physician Specialty	2008 Actual			2015 Projected
	Population	Physicians /100k		Population
Endocrinology, Diabetes & Metabolism	453,539	1	0.2	501,976
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	1.8	8	Deficit: -7	9
Two Mature HMO	1.1	5	Deficit: -4	6
Adjusted FTE	1.0	5	Deficit: -4	5
GMENAC	0.8	4	Deficit: -3	4
Kaiser Portland	0.9	4	Deficit: -3	5
7 Kaiser Plans	1.1	5	Deficit: -4	6
GHC Seattle				
Three HMOs	0.6	3	Deficit: -2	3
Goodman				
Hicks & Glenn				
Solucient				
Average Requirement	0.9	4	Deficit: -3	5

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Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k		Population
Family Practice		453,539	92	20.3	501,976
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	31.5	143	Deficit: -51	158	
Two Mature HMO	45.6	207	Deficit: -115	229	
Adjusted FTE	42.6	193	Deficit: -101	214	
GMENAC	25.2	114	Deficit: -22	126	
Kaiser Portland	16.7	76	Surplus: 16	84	
7 Kaiser Plans	11.0	50	Surplus: 42	55	
GHC Seattle					
Three HMOs	9.2	42	Surplus: 50	46	
Goodman					
Hicks & Glenn	16.2	73	Surplus: 19	81	
Solucient	22.5	102	Deficit: -10	113	
Average Requirement	23.6	107	Deficit: -15	118	

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k		Population
Gastroenterology		453,539	11	2.4	501,976
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	4.2	19	Deficit: -8	21	
Two Mature HMO	3.1	14	Deficit: -3	16	
Adjusted FTE					
GMENAC	3.2	15	Deficit: -4	16	
Kaiser Portland	1.7	8	Surplus: 3	9	
7 Kaiser Plans	1.7	8	Surplus: 3	9	
GHC Seattle					
Three HMOs					
Goodman	1.3	6	Surplus: 5	7	
Hicks & Glenn					
Solucient	3.5	16	Deficit: -5	18	
Average Requirement	2.4	11	Adequate 0	12	

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Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k		Population
Infectious Disease		453,539	2	0.4	501,976
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	2.2	10	Deficit: -8	11	
Two Mature HMO	0.7	3	Deficit: -1	4	
Adjusted FTE	0.6	3	Deficit: -1	3	
GMENAC	0.9	4	Deficit: -2	5	
Kaiser Portland	1.2	5	Deficit: -3	6	
7 Kaiser Plans	0.7	3	Deficit: -1	4	
GHC Seattle	0.6	3	Deficit: -1	3	
Three HMOs					
Goodman					
Hicks & Glenn					
Solucient					
Average Requirement	0.8	4	Deficit: -2	4	

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k		Population
Internal Medicine		453,539	83	18.3	501,976
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	53.1	241	Deficit: -158	267	
Two Mature HMO	21.4	97	Deficit: -14	107	
Adjusted FTE	20.0	91	Deficit: -8	100	
GMENAC	28.8	131	Deficit: -48	145	
Kaiser Portland	28.1	127	Deficit: -44	141	
7 Kaiser Plans	30.3	137	Deficit: -54	152	
GHC Seattle					
Three HMOs	16.7	76	Surplus: 7	84	
Goodman					
Hicks & Glenn	11.3	51	Surplus: 32	57	
Solucient	19.0	86	Deficit: -3	95	
Average Requirement	22.0	100	Deficit: -17	110	

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Physician Specialty	2008 Actual			2015 Projected
	Population	Physicians /100k		Population
Nephrology	453,539	10	2.2	501,976
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	2.6	12	Deficit: -2	13
Two Mature HMO	1.4	6	Surplus: 4	7
Adjusted FTE	1.3	6	Surplus: 4	7
GMENAC	1.1	5	Surplus: 5	6
Kaiser Portland	0.8	4	Surplus: 6	4
7 Kaiser Plans	0.7	3	Surplus: 7	4
GHC Seattle	0.9	4	Surplus: 6	5
Three HMOs				
Goodman				
Hicks & Glenn				
Solucient	0.7	3	Surplus: 7	4
Average Requirement	1.0	5	Surplus: 5	5

Physician Specialty	2008 Actual			2015 Projected
	Population	Physicians /100k		Population
Neurology	453,539	11	2.4	501,976
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	5.0	23	Deficit: -12	25
Two Mature HMO	2.4	11	Adequate 0	12
Adjusted FTE	2.3	10	Surplus: 1	12
GMENAC	3.3	15	Deficit: -4	17
Kaiser Portland	1.3	6	Surplus: 5	7
7 Kaiser Plans	1.7	8	Surplus: 3	9
GHC Seattle	1.2	5	Surplus: 6	6
Three HMOs				
Goodman	2.1	10	Surplus: 1	11
Hicks & Glenn	1.4	6	Surplus: 5	7
Solucient	1.8	8	Surplus: 3	9
Average Requirement	1.9	9	Surplus: 2	10

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Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k		Population
OB/GYN		453,539	38	8.4	501,976
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	14.1	64	Deficit: -26	71	
Two Mature HMO	12.1	55	Deficit: -17	61	
Adjusted FTE	11.3	51	Deficit: -13	57	
GMENAC	9.9	45	Deficit: -7	50	
Kaiser Portland	11.6	53	Deficit: -15	58	
7 Kaiser Plans	11.5	52	Deficit: -14	58	
GHC Seattle	10.0	45	Deficit: -7	50	
Three HMOs	8.8	40	Deficit: -2	44	
Goodman	8.4	38	Adequate 0	42	
Hicks & Glenn	8.0	36	Surplus: 2	40	
Solucient	10.2	46	Deficit: -8	51	
Average Requirement	10.2	46	Deficit: -8	51	

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k		Population
Ophthalmology		453,539	15	3.3	501,976
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	6.0	27	Deficit: -12	30	
Two Mature HMO	5.9	27	Deficit: -12	30	
Adjusted FTE	5.5	25	Deficit: -10	28	
GMENAC	4.6	21	Deficit: -6	23	
Kaiser Portland	2.4	11	Surplus: 4	12	
7 Kaiser Plans	3.1	14	Surplus: 1	16	
GHC Seattle	5.0	23	Deficit: -8	25	
Three HMOs					
Goodman	3.5	16	Deficit: -1	18	
Hicks & Glenn	3.2	15	Adequate 0	16	
Solucient	4.7	21	Deficit: -6	24	
Average Requirement	4.2	19	Deficit: -4	21	

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Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k		Population
Orthopedic Surgery		453,539	21	4.6	501,976
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	8.3	38	Deficit: -17	42	
Two Mature HMO	6.8	31	Deficit: -10	34	
Adjusted FTE	6.4	29	Deficit: -8	32	
GMENAC	6.0	27	Deficit: -6	30	
Kaiser Portland	5.9	27	Deficit: -6	30	
7 Kaiser Plans	4.2	19	Surplus: 2	21	
GHC Seattle	6.7	30	Deficit: -9	34	
Three HMOs	3.0	14	Surplus: 7	15	
Goodman	5.9	27	Deficit: -6	30	
Hicks & Glenn	4.2	19	Surplus: 2	21	
Solucient	6.1	28	Deficit: -7	31	
Average Requirement	5.5	25	Deficit: -4	28	

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k		Population
Otolaryngology		453,539	13	2.9	501,976
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	3.4	15	Deficit: -2	17	
Two Mature HMO	3.2	15	Deficit: -2	16	
Adjusted FTE					
GMENAC	3.2	15	Deficit: -2	16	
Kaiser Portland	3.4	15	Deficit: -2	17	
7 Kaiser Plans	2.4	11	Surplus: 2	12	
GHC Seattle	3.0	14	Deficit: -1	15	
Three HMOs					
Goodman					
Hicks & Glenn					
Solucient					
Average Requirement	3.0	14	Deficit: -1	15	

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Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k		Population
Pathology		453,539	12	2.6	501,976
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status		Physician Need
AMA	6.3	29	Deficit: -17		32
Two Mature HMO	1.9	9	Surplus: 3		10
Adjusted FTE	1.8	8	Surplus: 4		9
GMENAC	6.4	29	Deficit: -17		32
Kaiser Portland	3.3	15	Deficit: -3		17
7 Kaiser Plans	1.8	8	Surplus: 4		9
GHC Seattle					
Three HMOs					
Goodman	4.1	19	Deficit: -7		21
Hicks & Glenn					
Solucient					
Average Requirement	3.2	15	Deficit: -3		16

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k		Population
Pediatrics		453,539	45	9.9	501,976
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status		Physician Need
AMA	24.9	113	Deficit: -68		125
Two Mature HMO	16.6	75	Deficit: -30		83
Adjusted FTE	15.5	70	Deficit: -25		78
GMENAC	12.4	56	Deficit: -11		62
Kaiser Portland	11.9	54	Deficit: -9		60
7 Kaiser Plans	16.0	73	Deficit: -28		80
GHC Seattle					
Three HMOs	9.8	44	Surplus: 1		49
Goodman					
Hicks & Glenn	7.6	34	Surplus: 11		38
Solucient	13.9	63	Deficit: -18		70
Average Requirement	13.0	59	Deficit: -14		65

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Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k		Population
Plastic Surgery		453,539	2	0.4	501,976
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status		Physician Need
AMA	2.4	11	Deficit: -9		12
Two Mature HMO					
Adjusted FTE					
GMENAC	1.1	5	Deficit: -3		6
Kaiser Portland	0.3	1	Surplus: 1		2
7 Kaiser Plans					
GHC Seattle	0.4	2	Adequate 0		2
Three HMOs					
Goodman	1.1	5	Deficit: -3		6
Hicks & Glenn	2.3	10	Deficit: -8		12
Solucient	2.2	10	Deficit: -8		11
Average Requirement		5	Deficit: -3		6

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k		Population
Psychiatry		453,539	24	5.3	501,976
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status		Physician Need
AMA	13.6	62	Deficit: -38		68
Two Mature HMO		35	Deficit: -11		39
Adjusted FTE		33	Deficit: -9		36
GMENAC	15.4	70	Deficit: -46		77
Kaiser Portland	5.2	24	Adequate 0		26
7 Kaiser Plans	4.1	19	Surplus: 5		21
GHC Seattle					
Three HMOs					
Goodman	7.2	33	Deficit: -9		36
Hicks & Glenn	3.9	18	Surplus: 6		20
Solucient	5.7	26	Deficit: -2		29
Average Requirement		32	Deficit: -8		36

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Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k	Physician Need	Population
Pulmonary Diseases		453,539	9	2.0	501,976
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	3.5	16	Deficit: -7	18	
Two Mature HMO	2.0	9	Adequate 0	10	
Adjusted FTE	1.9	9	Adequate 0	10	
GMENAC	1.4	6	Surplus: 3	7	
Kaiser Portland	1.4	6	Surplus: 3	7	
7 Kaiser Plans	1.0	5	Surplus: 4	5	
GHC Seattle	1.4	6	Surplus: 3	7	
Three HMOs					
Goodman	1.4	6	Surplus: 3	7	
Hicks & Glenn					
Solucient	1.3	6	Surplus: 3	7	
Average Requirement	1.5	7	Surplus: 2	8	

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k	Physician Need	Population
Radiology		453,539	32	7.1	501,976
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	11.4	52	Deficit: -20	57	
Two Mature HMO	13.6	62	Deficit: -30	68	
Adjusted FTE	13.7	62	Deficit: -30	69	
GMENAC	7.7	35	Deficit: -3	39	
Kaiser Portland	8.5	39	Deficit: -7	43	
7 Kaiser Plans	4.7	21	Surplus: 11	24	
GHC Seattle	7.7	35	Deficit: -3	39	
Three HMOs					
Goodman	8.0	36	Deficit: -4	40	
Hicks & Glenn					
Solucient					
Average Requirement	9.1	41	Deficit: -9	46	

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Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k	Physician Need	Population
Rheumatology		453,539	1	0.2	501,976
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	1.5	7	Deficit: -6	8	
Two Mature HMO	1.1	5	Deficit: -4	6	
Adjusted FTE	1.0	5	Deficit: -4	5	
GMENAC	0.7	3	Deficit: -2	4	
Kaiser Portland	0.4	2	Deficit: -1	2	
7 Kaiser Plans	0.7	3	Deficit: -2	4	
GHC Seattle	0.7	3	Deficit: -2	4	
Three HMOs					
Goodman	0.4	2	Deficit: -1	2	
Hicks & Glenn					
Solucient	1.3	6	Deficit: -5	7	
Average Requirement	0.8	4	Deficit: -3	4	

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k	Physician Need	Population
General Surgery		453,539	33	7.3	501,976
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	12.5	57	Deficit: -24	63	
Two Mature HMO	9.4	43	Deficit: -10	47	
Adjusted FTE	8.8	40	Deficit: -7	44	
GMENAC	9.7	44	Deficit: -11	49	
Kaiser Portland	7.0	32	Surplus: 1	35	
7 Kaiser Plans	6.2	28	Surplus: 5	31	
GHC Seattle	5.9	27	Surplus: 6	30	
Three HMOs	4.2	19	Surplus: 14	21	
Goodman	9.7	44	Deficit: -11	49	
Hicks & Glenn	4.1	19	Surplus: 14	21	
Solucient	6.0	27	Surplus: 6	30	
Average Requirement	7.1	32	Surplus: 1	36	

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Physician Specialty	2008 Actual			2015 Projected
	Population	Physicians /100k	Status	Population
Urology	453,539	10	2.2	501,976
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	3.5	16	Deficit: -6	18
Two Mature HMO	3.5	16	Deficit: -6	18
Adjusted FTE	3.3	15	Deficit: -5	17
GMENAC	3.1	14	Deficit: -4	16
Kaiser Portland	3.3	15	Deficit: -5	17
7 Kaiser Plans	2.3	10	Adequate 0	12
GHC Seattle	2.9	13	Deficit: -3	15
Three HMOs				
Goodman	2.6	12	Deficit: -2	13
Hicks & Glenn	1.9	9	Surplus: 1	10
Solucient	2.9	13	Deficit: -3	14
Average Requirement	2.9	13	Deficit: -3	15

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.