

Savannah MSA Physician Standard Report

Included Counties: Bryan, Chatham, Effingham

Physician Specialty	2008 Actual			2015 Projected
	Population	Physician /100k	Status	Population
Allergy & Immunology	314,459	6	1.9	316,243
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	1.4	4	Surplus: 2	4
Two Mature HMO	1.5	5	Surplus: 1	5
Adjusted FTE	1.4	4	Surplus: 2	4
GMENAC	0.8	3	Surplus: 3	3
Kaiser Portland	1.7	5	Surplus: 1	5
7 Kaiser Plans	1.2	4	Surplus: 2	4
GHC Seattle	1.1	3	Surplus: 3	3
Three HMOs				
Goodman	1.3	4	Surplus: 2	4
Hicks & Glenn				
Solucient	1.7	5	Surplus: 1	5
Average Requirement	1.3	4	Surplus: 2	4

Physician Specialty	2008 Actual			2015 Projected
	Population	Physician /100k	Status	Population
Anesthesiology	314,459	37	11.8	316,243
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	14.0	44	Deficit: -7	44
Two Mature HMO	9.7	31	Surplus: 6	31
Adjusted FTE	9.1	29	Surplus: 8	29
GMENAC	8.9	28	Surplus: 9	28
Kaiser Portland	5.9	19	Surplus: 18	19
7 Kaiser Plans	3.9	12	Surplus: 25	12
GHC Seattle	9.0	28	Surplus: 9	28
Three HMOs				
Goodman	7.0	22	Surplus: 15	22
Hicks & Glenn				
Solucient				
Average Requirement	7.6	24	Surplus: 13	24

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Physician Specialty	2008 Actual			2015 Projected
	Population	Physician /100k	Status	Population
Cardiovascular Diseases	314,459	31	9.9	316,243
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	7.5	24	Surplus: 7	24
Two Mature HMO	5.4	17	Surplus: 14	17
Adjusted FTE	5.0	16	Surplus: 15	16
GMENAC	3.1	10	Surplus: 21	10
Kaiser Portland	3.0	9	Surplus: 22	9
7 Kaiser Plans	1.8	6	Surplus: 25	6
GHC Seattle	2.9	9	Surplus: 22	9
Three HMOs				
Goodman	3.6	11	Surplus: 20	11
Hicks & Glenn	2.6	8	Surplus: 23	8
Solucient	4.2	13	Surplus: 18	13
Average Requirement	3.5	11	Surplus: 20	11

Physician Specialty	2008 Actual			2015 Projected
	Population	Physician /100k	Status	Population
Dermatology	314,459	11	3.5	316,243
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	3.7	12	Deficit: -1	12
Two Mature HMO	2.8	9	Surplus: 2	9
Adjusted FTE	2.6	8	Surplus: 3	8
GMENAC	2.8	9	Surplus: 2	9
Kaiser Portland	2.5	8	Surplus: 3	8
7 Kaiser Plans	2.4	8	Surplus: 3	8
GHC Seattle	2.6	8	Surplus: 3	8
Three HMOs	1.6	5	Surplus: 6	5
Goodman	1.4	4	Surplus: 7	4
Hicks & Glenn	2.1	7	Surplus: 4	7
Solucient	3.1	10	Surplus: 1	10
Average Requirement	2.4	8	Surplus: 3	8

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Physician Specialty	2008 Actual			2015 Projected
	Population	Physician /100k	Status	Population
Emergency Medicine	314,459	48	15.3	316,243
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	10.5	33	Surplus: 15	33
Two Mature HMO	5.5	17	Surplus: 31	17
Adjusted FTE	5.2	16	Surplus: 32	16
GMENAC	5.4	17	Surplus: 31	17
Kaiser Portland	6.7	21	Surplus: 27	21
7 Kaiser Plans	5.3	17	Surplus: 31	17
GHC Seattle				
Three HMOs				
Goodman	2.7	8	Surplus: 40	9
Hicks & Glenn				
Solucient	12.4	39	Surplus: 9	39
Average Requirement	6.2	19	Surplus: 29	20

Physician Specialty	2008 Actual			2015 Projected
	Population	Physician /100k	Status	Population
Endocrinology, Diabetes & Metabolism	314,459	4	1.3	316,243
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	1.8	6	Deficit: -2	6
Two Mature HMO	1.1	3	Surplus: 1	3
Adjusted FTE	1.0	3	Surplus: 1	3
GMENAC	0.8	3	Surplus: 1	3
Kaiser Portland	0.9	3	Surplus: 1	3
7 Kaiser Plans	1.1	3	Surplus: 1	3
GHC Seattle				
Three HMOs	0.6	2	Surplus: 2	2
Goodman				
Hicks & Glenn				
Solucient				
Average Requirement	0.9	3	Surplus: 1	3

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Physician Specialty		2008 Actual			2015 Projected
		Population	Physician /100k	Status	Population
Family Practice		314,459	103	32.8	316,243
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	31.5	99	Surplus: 4	100	
Two Mature HMO	45.6	143	Deficit: -40	144	
Adjusted FTE	42.6	134	Deficit: -31	135	
GMENAC	25.2	79	Surplus: 24	80	
Kaiser Portland	16.7	53	Surplus: 50	53	
7 Kaiser Plans	11.0	35	Surplus: 68	35	
GHC Seattle					
Three HMOs	9.2	29	Surplus: 74	29	
Goodman					
Hicks & Glenn	16.2	51	Surplus: 52	51	
Solucient	22.5	71	Surplus: 32	71	
Average Requirement	23.6	74	Surplus: 29	75	

Physician Specialty		2008 Actual			2015 Projected
		Population	Physician /100k	Status	Population
Gastroenterology		314,459	18	5.7	316,243
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	4.2	13	Surplus: 5	13	
Two Mature HMO	3.1	10	Surplus: 8	10	
Adjusted FTE					
GMENAC	3.2	10	Surplus: 8	10	
Kaiser Portland	1.7	5	Surplus: 13	5	
7 Kaiser Plans	1.7	5	Surplus: 13	5	
GHC Seattle					
Three HMOs					
Goodman	1.3	4	Surplus: 14	4	
Hicks & Glenn					
Solucient	3.5	11	Surplus: 7	11	
Average Requirement	2.4	8	Surplus: 10	8	

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Physician Specialty		2008 Actual			2015 Projected
		Population	Physician /100k	Status	Population
Infectious Disease		314,459	6	1.9	316,243
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	2.2	7	Deficit: -1	7	
Two Mature HMO	0.7	2	Surplus: 4	2	
Adjusted FTE	0.6	2	Surplus: 4	2	
GMENAC	0.9	3	Surplus: 3	3	
Kaiser Portland	1.2	4	Surplus: 2	4	
7 Kaiser Plans	0.7	2	Surplus: 4	2	
GHC Seattle	0.6	2	Surplus: 4	2	
Three HMOs					
Goodman					
Hicks & Glenn					
Solucient					
Average Requirement	0.8	3	Surplus: 3	3	

Physician Specialty		2008 Actual			2015 Projected
		Population	Physician /100k	Status	Population
Internal Medicine		314,459	89	28.3	316,243
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	53.1	167	Deficit: -78	168	
Two Mature HMO	21.4	67	Surplus: 22	68	
Adjusted FTE	20.0	63	Surplus: 26	63	
GMENAC	28.8	91	Deficit: -2	91	
Kaiser Portland	28.1	88	Surplus: 1	89	
7 Kaiser Plans	30.3	95	Deficit: -6	96	
GHC Seattle					
Three HMOs	16.7	53	Surplus: 36	53	
Goodman					
Hicks & Glenn	11.3	36	Surplus: 53	36	
Solucient	19.0	60	Surplus: 29	60	
Average Requirement	22.0	69	Surplus: 20	70	

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Physician Specialty	2008 Actual			2015 Projected
	Population	Physician /100k	Status	Population
Nephrology	314,459	8	2.5	316,243
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	2.6	8	Adequate	8
Two Mature HMO	1.4	4	Surplus:	4
Adjusted FTE	1.3	4	Surplus:	4
GMENAC	1.1	3	Surplus:	3
Kaiser Portland	0.8	3	Surplus:	3
7 Kaiser Plans	0.7	2	Surplus:	2
GHC Seattle	0.9	3	Surplus:	3
Three HMOs				
Goodman				
Hicks & Glenn				
Solucient	0.7	2	Surplus:	2
Average Requirement	1.0	3	Surplus:	3

Physician Specialty	2008 Actual			2015 Projected
	Population	Physician /100k	Status	Population
Neurological Surgery	314,459	9	2.9	316,243
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	1.9	6	Surplus:	6
Two Mature HMO	1.1	3	Surplus:	3
Adjusted FTE	1.0	3	Surplus:	3
GMENAC	1.1	3	Surplus:	3
Kaiser Portland	1.4	4	Surplus:	4
7 Kaiser Plans				
GHC Seattle	0.4	1	Surplus:	1
Three HMOs				
Goodman	0.7	2	Surplus:	2
Hicks & Glenn				
Solucient				
Average Requirement	1.0	3	Surplus:	3

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Physician Specialty	2008 Actual			2015 Projected
	Population	Physician /100k	Status	Population
Neurology	314,459	13	4.1	316,243
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	5.0	16	Deficit: -3	16
Two Mature HMO	2.4	8	Surplus: 5	8
Adjusted FTE	2.3	7	Surplus: 6	7
GMENAC	3.3	10	Surplus: 3	10
Kaiser Portland	1.3	4	Surplus: 9	4
7 Kaiser Plans	1.7	5	Surplus: 8	5
GHC Seattle	1.2	4	Surplus: 9	4
Three HMOs				
Goodman	2.1	7	Surplus: 6	7
Hicks & Glenn	1.4	4	Surplus: 9	4
Solucient	1.8	6	Surplus: 7	6
Average Requirement	1.9	6	Surplus: 7	6

Physician Specialty	2008 Actual			2015 Projected
	Population	Physician /100k	Status	Population
OB/GYN	314,459	38	12.1	316,243
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	14.1	44	Deficit: -6	45
Two Mature HMO	12.1	38	Adequate 0	38
Adjusted FTE	11.3	36	Surplus: 2	36
GMENAC	9.9	31	Surplus: 7	31
Kaiser Portland	11.6	36	Surplus: 2	37
7 Kaiser Plans	11.5	36	Surplus: 2	36
GHC Seattle	10.0	31	Surplus: 7	32
Three HMOs	8.8	28	Surplus: 10	28
Goodman	8.4	26	Surplus: 12	27
Hicks & Glenn	8.0	25	Surplus: 13	25
Solucient	10.2	32	Surplus: 6	32
Average Requirement	10.2	32	Surplus: 6	32

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Physician Specialty		2008 Actual			2015 Projected
		Population	Physician /100k	Physician /100k	Population
Ophthalmology		314,459	25	8.0	316,243
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	6.0	19	Surplus: 6	19	
Two Mature HMO	5.9	19	Surplus: 6	19	
Adjusted FTE	5.5	17	Surplus: 8	17	
GMENAC	4.6	14	Surplus: 11	15	
Kaiser Portland	2.4	8	Surplus: 17	8	
7 Kaiser Plans	3.1	10	Surplus: 15	10	
GHC Seattle	5.0	16	Surplus: 9	16	
Three HMOs					
Goodman	3.5	11	Surplus: 14	11	
Hicks & Glenn	3.2	10	Surplus: 15	10	
Solucient	4.7	15	Surplus: 10	15	
Average Requirement	4.2	13	Surplus: 12	13	

Physician Specialty		2008 Actual			2015 Projected
		Population	Physician /100k	Physician /100k	Population
Orthopedic Surgery		314,459	30	9.5	316,243
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	8.3	26	Surplus: 4	26	
Two Mature HMO	6.8	21	Surplus: 9	22	
Adjusted FTE	6.4	20	Surplus: 10	20	
GMENAC	6.0	19	Surplus: 11	19	
Kaiser Portland	5.9	19	Surplus: 11	19	
7 Kaiser Plans	4.2	13	Surplus: 17	13	
GHC Seattle	6.7	21	Surplus: 9	21	
Three HMOs	3.0	9	Surplus: 21	9	
Goodman	5.9	19	Surplus: 11	19	
Hicks & Glenn	4.2	13	Surplus: 17	13	
Solucient	6.1	19	Surplus: 11	19	
Average Requirement	5.5	17	Surplus: 13	17	

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Physician Specialty	2008 Actual			2015 Projected
	Population	Physician /100k	Status	Population
Otolaryngology	314,459	12	3.8	316,243
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	3.4	11	Surplus: 1	11
Two Mature HMO	3.2	10	Surplus: 2	10
Adjusted FTE				
GMENAC	3.2	10	Surplus: 2	10
Kaiser Portland	3.4	11	Surplus: 1	11
7 Kaiser Plans	2.4	8	Surplus: 4	8
GHC Seattle	3.0	9	Surplus: 3	9
Three HMOs				
Goodman				
Hicks & Glenn				
Solucient				
Average Requirement	3.0	9	Surplus: 3	9

Physician Specialty	2008 Actual			2015 Projected
	Population	Physician /100k	Status	Population
Pathology	314,459	11	3.5	316,243
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	6.3	20	Deficit: -9	20
Two Mature HMO	1.9	6	Surplus: 5	6
Adjusted FTE	1.8	6	Surplus: 5	6
GMENAC	6.4	20	Deficit: -9	20
Kaiser Portland	3.3	10	Surplus: 1	10
7 Kaiser Plans	1.8	6	Surplus: 5	6
GHC Seattle				
Three HMOs				
Goodman	4.1	13	Deficit: -2	13
Hicks & Glenn				
Solucient				
Average Requirement	3.2	10	Surplus: 1	10

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Physician Specialty	2008 Actual			2015 Projected
	Population	Physician /100k	Status	Population
Pediatrics	314,459	60	19.1	316,243
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	24.9	78	Deficit: -18	79
Two Mature HMO	16.6	52	Surplus: 8	52
Adjusted FTE	15.5	49	Surplus: 11	49
GMENAC	12.4	39	Surplus: 21	39
Kaiser Portland	11.9	37	Surplus: 23	38
7 Kaiser Plans	16.0	50	Surplus: 10	51
GHC Seattle				
Three HMOs	9.8	31	Surplus: 29	31
Goodman				
Hicks & Glenn	7.6	24	Surplus: 36	24
Solucient	13.9	44	Surplus: 16	44
Average Requirement	13.0	41	Surplus: 19	41

Physician Specialty	2008 Actual			2015 Projected
	Population	Physician /100k	Status	Population
Plastic Surgery	314,459	19	6.0	316,243
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	2.4	8	Surplus: 11	8
Two Mature HMO				
Adjusted FTE				
GMENAC	1.1	3	Surplus: 16	3
Kaiser Portland	0.3	1	Surplus: 18	1
7 Kaiser Plans				
GHC Seattle	0.4	1	Surplus: 18	1
Three HMOs				
Goodman	1.1	3	Surplus: 16	3
Hicks & Glenn	2.3	7	Surplus: 12	7
Solucient	2.2	7	Surplus: 12	7
Average Requirement	1.2	4	Surplus: 15	4

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Physician Specialty	2008 Actual			2015 Projected
	Population	Physician /100k	Status	Population
Psychiatry	314,459	39	12.4	316,243
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	13.6	43	Deficit: -4	43
Two Mature HMO	7.7	24	Surplus: 15	24
Adjusted FTE	7.2	23	Surplus: 16	23
GMENAC	15.4	48	Deficit: -9	49
Kaiser Portland	5.2	16	Surplus: 23	16
7 Kaiser Plans	4.1	13	Surplus: 26	13
GHC Seattle				
Three HMOs				
Goodman	7.2	23	Surplus: 16	23
Hicks & Glenn	3.9	12	Surplus: 27	12
Solucient	5.7	18	Surplus: 21	18
Average Requirement	7.1	22	Surplus: 17	22

Physician Specialty	2008 Actual			2015 Projected
	Population	Physician /100k	Status	Population
Pulmonary Diseases	314,459	17	5.4	316,243
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	3.5	11	Surplus: 6	11
Two Mature HMO	2.0	6	Surplus: 11	6
Adjusted FTE	1.9	6	Surplus: 11	6
GMENAC	1.4	4	Surplus: 13	4
Kaiser Portland	1.4	4	Surplus: 13	4
7 Kaiser Plans	1.0	3	Surplus: 14	3
GHC Seattle	1.4	4	Surplus: 13	4
Three HMOs				
Goodman	1.4	4	Surplus: 13	4
Hicks & Glenn				
Solucient	1.3	4	Surplus: 13	4
Average Requirement	1.5	5	Surplus: 12	5

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Physician Specialty	2008 Actual			2015 Projected
	Population	Physician /100k		Population
Radiology	314,459	53	16.9	316,243
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	11.4	36	Surplus: 17	36
Two Mature HMO	13.6	43	Surplus: 10	43
Adjusted FTE	13.7	43	Surplus: 10	43
GMENAC	7.7	24	Surplus: 29	24
Kaiser Portland	8.5	27	Surplus: 26	27
7 Kaiser Plans	4.7	15	Surplus: 38	15
GHC Seattle	7.7	24	Surplus: 29	24
Three HMOs				
Goodman	8.0	25	Surplus: 28	25
Hicks & Glenn				
Solucient				
Average Requirement	9.1	29	Surplus: 24	29

Physician Specialty	2008 Actual			2015 Projected
	Population	Physician /100k		Population
Rheumatology	314,459	1	0.3	316,243
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	1.5	5	Deficit: -4	5
Two Mature HMO	1.1	3	Deficit: -2	3
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	3	Deficit: -2	3

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Physician Specialty	2008 Actual			2015 Projected
	Population	Physician /100k		Population
General Surgery	314,459	39	12.4	316,243
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	12.5	39	Adequate	40
Two Mature HMO	9.4	30	Surplus:	30
Adjusted FTE	8.8	28	Surplus:	28
GMENAC	9.7	31	Surplus:	31
Kaiser Portland	7.0	22	Surplus:	22
7 Kaiser Plans	6.2	19	Surplus:	20
GHC Seattle	5.9	19	Surplus:	19
Three HMOs	4.2	13	Surplus:	13
Goodman	9.7	31	Surplus:	31
Hicks & Glenn	4.1	13	Surplus:	13
Solucient	6.0	19	Surplus:	19
Average Requirement	7.1	22	Surplus:	22

Physician Specialty	2008 Actual			2015 Projected
	Population	Physician /100k		Population
Thoracic Surgery	314,459	4	1.3	316,243
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	1.5	5	Deficit:	5
Two Mature HMO				
Adjusted FTE				
GMENAC	0.8	3	Surplus:	3
Kaiser Portland	0.1	0	Surplus:	0
7 Kaiser Plans				
GHC Seattle				
Three HMOs				
Goodman				
Hicks & Glenn				
Solucient				
Average Requirement	0.5	2	Surplus:	2

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Physician Specialty	2008 Actual			2015 Projected
	Population	Physician /100k		Population
Urology	314,459	14	4.5	316,243
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	3.5	11	Surplus: 3	11
Two Mature HMO	3.5	11	Surplus: 3	11
Adjusted FTE	3.3	10	Surplus: 4	10
GMENAC	3.1	10	Surplus: 4	10
Kaiser Portland	3.3	10	Surplus: 4	10
7 Kaiser Plans	2.3	7	Surplus: 7	7
GHC Seattle	2.9	9	Surplus: 5	9
Three HMOs				
Goodman	2.6	8	Surplus: 6	8
Hicks & Glenn	1.9	6	Surplus: 8	6
Solucient	2.9	9	Surplus: 5	9
Average Requirement	2.9	9	Surplus: 5	9

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.