

## 31 PCSA Physician Standard Report

Included Counties: Columbia, Lincoln, Richmond

Physician Specialty	2008 Actual			2015 Projected
	Population	Physicians /100k		Population
<b>Allergy &amp; Immunology</b>	<b>307,473</b>	<b>16</b>	<b>5.2</b>	<b>310,389</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	1.4	4	Surplus: 12	4
Two Mature HMO	1.5	5	Surplus: 11	5
Adjusted FTE	1.4	4	Surplus: 12	4
GMENAC	0.8	2	Surplus: 14	2
Kaiser Portland	1.7	5	Surplus: 11	5
7 Kaiser Plans	1.2	4	Surplus: 12	4
GHC Seattle	1.1	3	Surplus: 13	3
Three HMOs				
Goodman	1.3	4	Surplus: 12	4
Hicks & Glenn				
Solucient	1.7	5	Surplus: 11	5
Average Requirement	1.3	4	Surplus: 12	4

Physician Specialty	2008 Actual			2015 Projected
	Population	Physicians /100k		Population
<b>Anesthesiology</b>	<b>307,473</b>	<b>80</b>	<b>26.0</b>	<b>310,389</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	14.0	43	Surplus: 37	43
Two Mature HMO	9.7	30	Surplus: 50	30
Adjusted FTE	9.1	28	Surplus: 52	28
GMENAC	8.9	27	Surplus: 53	28
Kaiser Portland	5.9	18	Surplus: 62	18
7 Kaiser Plans	3.9	12	Surplus: 68	12
GHC Seattle	9.0	28	Surplus: 52	28
Three HMOs				
Goodman	7.0	22	Surplus: 58	22
Hicks & Glenn				
Solucient				
Average Requirement	7.6	23	Surplus: 57	24

## 31 PCSA Physician Standard Report

Included Counties: Columbia, Lincoln, Richmond

Physician Specialty	2008 Actual			2015 Projected
	Population	Physicians /100k		Population
<b>Cardiovascular Diseases</b>	<b>307,473</b>	<b>63</b>	<b>20.5</b>	<b>310,389</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	7.5	23	Surplus: 40	23
Two Mature HMO	5.4	17	Surplus: 46	17
Adjusted FTE	5.0	15	Surplus: 48	16
GMENAC	3.1	10	Surplus: 53	10
Kaiser Portland	3.0	9	Surplus: 54	9
7 Kaiser Plans	1.8	6	Surplus: 57	6
GHC Seattle	2.9	9	Surplus: 54	9
Three HMOs				
Goodman	3.6	11	Surplus: 52	11
Hicks & Glenn	2.6	8	Surplus: 55	8
Solucient	4.2	13	Surplus: 50	13
Average Requirement	3.5	11	Surplus: 52	11

Physician Specialty	2008 Actual			2015 Projected
	Population	Physicians /100k		Population
<b>Dermatology</b>	<b>307,473</b>	<b>20</b>	<b>6.5</b>	<b>310,389</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	3.7	11	Surplus: 9	11
Two Mature HMO	2.8	9	Surplus: 11	9
Adjusted FTE	2.6	8	Surplus: 12	8
GMENAC	2.8	9	Surplus: 11	9
Kaiser Portland	2.5	8	Surplus: 12	8
7 Kaiser Plans	2.4	7	Surplus: 13	7
GHC Seattle	2.6	8	Surplus: 12	8
Three HMOs	1.6	5	Surplus: 15	5
Goodman	1.4	4	Surplus: 16	4
Hicks & Glenn	2.1	6	Surplus: 14	7
Solucient	3.1	10	Surplus: 10	10
Average Requirement	2.4	7	Surplus: 13	7

## 31 PCSA Physician Standard Report

Included Counties: Columbia, Lincoln, Richmond

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k	Physician Need	Population
<b>Emergency Medicine</b>		<b>307,473</b>	<b>78</b>	<b>25.4</b>	<b>310,389</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	10.5	32	Surplus: 46	33	
Two Mature HMO	5.5	17	Surplus: 61	17	
Adjusted FTE	5.2	16	Surplus: 62	16	
GMENAC	5.4	17	Surplus: 61	17	
Kaiser Portland	6.7	21	Surplus: 57	21	
7 Kaiser Plans	5.3	16	Surplus: 62	16	
GHC Seattle					
Three HMOs					
Goodman	2.7	8	Surplus: 70	8	
Hicks & Glenn					
Solucient	12.4	38	Surplus: 40	38	
Average Requirement	6.2	19	Surplus: 59	19	

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k	Physician Need	Population
<b>Endocrinology, Diabetes &amp; Metabolism</b>		<b>307,473</b>	<b>12</b>	<b>3.9</b>	<b>310,389</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	1.8	6	Surplus: 6	6	
Two Mature HMO	1.1	3	Surplus: 9	3	
Adjusted FTE	1.0	3	Surplus: 9	3	
GMENAC	0.8	2	Surplus: 10	2	
Kaiser Portland	0.9	3	Surplus: 9	3	
7 Kaiser Plans	1.1	3	Surplus: 9	3	
GHC Seattle					
Three HMOs	0.6	2	Surplus: 10	2	
Goodman					
Hicks & Glenn					
Solucient					
Average Requirement	0.9	3	Surplus: 9	3	

## 31 PCSA Physician Standard Report

Included Counties: Columbia, Lincoln, Richmond

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k	Physician Need	Population
<b>Family Practice</b>		<b>307,473</b>	<b>137</b>	<b>44.6</b>	<b>310,389</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	31.5	97	Surplus: 40	98	
Two Mature HMO	45.6	140	Deficit: -3	142	
Adjusted FTE	42.6	131	Surplus: 6	132	
GMENAC	25.2	77	Surplus: 60	78	
Kaiser Portland	16.7	51	Surplus: 86	52	
7 Kaiser Plans	11.0	34	Surplus: 103	34	
GHC Seattle					
Three HMOs	9.2	28	Surplus: 109	29	
Goodman					
Hicks & Glenn	16.2	50	Surplus: 87	50	
Solucient	22.5	69	Surplus: 68	70	
Average Requirement	23.6	73	Surplus: 64	73	

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k	Physician Need	Population
<b>Gastroenterology</b>		<b>307,473</b>	<b>27</b>	<b>8.8</b>	<b>310,389</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	4.2	13	Surplus: 14	13	
Two Mature HMO	3.1	10	Surplus: 17	10	
Adjusted FTE					
GMENAC	3.2	10	Surplus: 17	10	
Kaiser Portland	1.7	5	Surplus: 22	5	
7 Kaiser Plans	1.7	5	Surplus: 22	5	
GHC Seattle					
Three HMOs					
Goodman	1.3	4	Surplus: 23	4	
Hicks & Glenn					
Solucient	3.5	11	Surplus: 16	11	
Average Requirement	2.4	7	Surplus: 20	7	

## 31 PCSA Physician Standard Report

Included Counties: Columbia, Lincoln, Richmond

Physician Specialty	2008 Actual			2015 Projected
	Population	Physicians /100k		Population
<b>Hematology/Oncology</b>	<b>307,473</b>	<b>5</b>	<b>1.6</b>	<b>310,389</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	3.5	11	Deficit: -6	11
Two Mature HMO	2.5	8	Deficit: -3	8
Adjusted FTE	2.4	7	Deficit: -2	7
GMENAC	3.6	11	Deficit: -6	11
Kaiser Portland	2.3	7	Deficit: -2	7
7 Kaiser Plans	1.8	6	Deficit: -1	6
GHC Seattle	1.6	5	Adequate 0	5
Three HMOs	2.6	8	Deficit: -3	8
Goodman	1.2	4	Surplus: 1	4
Hicks & Glenn				
Solucient	1.1	3	Surplus: 2	3
Average Requirement	2.1	6	Deficit: -1	7

Physician Specialty	2008 Actual			2015 Projected
	Population	Physicians /100k		Population
<b>Infectious Disease</b>	<b>307,473</b>	<b>16</b>	<b>5.2</b>	<b>310,389</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	2.2	7	Surplus: 9	7
Two Mature HMO	0.7	2	Surplus: 14	2
Adjusted FTE	0.6	2	Surplus: 14	2
GMENAC	0.9	3	Surplus: 13	3
Kaiser Portland	1.2	4	Surplus: 12	4
7 Kaiser Plans	0.7	2	Surplus: 14	2
GHC Seattle	0.6	2	Surplus: 14	2
Three HMOs				
Goodman				
Hicks & Glenn				
Solucient				
Average Requirement	0.8	2	Surplus: 14	2

## 31 PCSA Physician Standard Report

Included Counties: Columbia, Lincoln, Richmond

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k	Physician Need	Population
<b>Internal Medicine</b>		<b>307,473</b>	<b>138</b>	<b>44.9</b>	<b>310,389</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	53.1	163	Deficit: -25	165	
Two Mature HMO	21.4	66	Surplus: 72	66	
Adjusted FTE	20.0	61	Surplus: 77	62	
GMENAC	28.8	89	Surplus: 49	89	
Kaiser Portland	28.1	86	Surplus: 52	87	
7 Kaiser Plans	30.3	93	Surplus: 45	94	
GHC Seattle					
Three HMOs	16.7	51	Surplus: 87	52	
Goodman					
Hicks & Glenn	11.3	35	Surplus: 103	35	
Solucient	19.0	58	Surplus: 80	59	
Average Requirement	22.0	68	Surplus: 70	68	

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k	Physician Need	Population
<b>Nephrology</b>		<b>307,473</b>	<b>31</b>	<b>10.1</b>	<b>310,389</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	2.6	8	Surplus: 23	8	
Two Mature HMO	1.4	4	Surplus: 27	4	
Adjusted FTE	1.3	4	Surplus: 27	4	
GMENAC	1.1	3	Surplus: 28	3	
Kaiser Portland	0.8	2	Surplus: 29	2	
7 Kaiser Plans	0.7	2	Surplus: 29	2	
GHC Seattle	0.9	3	Surplus: 28	3	
Three HMOs					
Goodman					
Hicks & Glenn					
Solucient	0.7	2	Surplus: 29	2	
Average Requirement	1.0	3	Surplus: 28	3	

## 31 PCSA Physician Standard Report

Included Counties: Columbia, Lincoln, Richmond

Physician Specialty	2008 Actual			2015 Projected
	Population	Physicians /100k		Population
<b>Neurological Surgery</b>	<b>307,473</b>	<b>17</b>	<b>5.5</b>	<b>310,389</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	1.9	6	Surplus: 11	6
Two Mature HMO	1.1	3	Surplus: 14	3
Adjusted FTE	1.0	3	Surplus: 14	3
GMENAC	1.1	3	Surplus: 14	3
Kaiser Portland	1.4	4	Surplus: 13	4
7 Kaiser Plans				
GHC Seattle	0.4	1	Surplus: 16	1
Three HMOs				
Goodman	0.7	2	Surplus: 15	2
Hicks & Glenn				
Solucient				
Average Requirement	1.0	3	Surplus: 14	3

Physician Specialty	2008 Actual			2015 Projected
	Population	Physicians /100k		Population
<b>Neurology</b>	<b>307,473</b>	<b>39</b>	<b>12.7</b>	<b>310,389</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	5.0	15	Surplus: 24	16
Two Mature HMO	2.4	7	Surplus: 32	7
Adjusted FTE	2.3	7	Surplus: 32	7
GMENAC	3.3	10	Surplus: 29	10
Kaiser Portland	1.3	4	Surplus: 35	4
7 Kaiser Plans	1.7	5	Surplus: 34	5
GHC Seattle	1.2	4	Surplus: 35	4
Three HMOs				
Goodman	2.1	6	Surplus: 33	7
Hicks & Glenn	1.4	4	Surplus: 35	4
Solucient	1.8	6	Surplus: 33	6
Average Requirement	1.9	6	Surplus: 33	6

## 31 PCSA Physician Standard Report

Included Counties: Columbia, Lincoln, Richmond

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k	Physician Need	Population
<b>OB/GYN</b>		<b>307,473</b>	<b>67</b>	<b>21.8</b>	<b>310,389</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	14.1	43	Surplus: 24	44	
Two Mature HMO	12.1	37	Surplus: 30	38	
Adjusted FTE	11.3	35	Surplus: 32	35	
GMENAC	9.9	30	Surplus: 37	31	
Kaiser Portland	11.6	36	Surplus: 31	36	
7 Kaiser Plans	11.5	35	Surplus: 32	36	
GHC Seattle	10.0	31	Surplus: 36	31	
Three HMOs	8.8	27	Surplus: 40	27	
Goodman	8.4	26	Surplus: 41	26	
Hicks & Glenn	8.0	25	Surplus: 42	25	
Solucient	10.2	31	Surplus: 36	32	
Average Requirement	10.2	31	Surplus: 36	32	

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k	Physician Need	Population
<b>Ophthalmology</b>		<b>307,473</b>	<b>34</b>	<b>11.1</b>	<b>310,389</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	6.0	18	Surplus: 16	19	
Two Mature HMO	5.9	18	Surplus: 16	18	
Adjusted FTE	5.5	17	Surplus: 17	17	
GMENAC	4.6	14	Surplus: 20	14	
Kaiser Portland	2.4	7	Surplus: 27	7	
7 Kaiser Plans	3.1	10	Surplus: 24	10	
GHC Seattle	5.0	15	Surplus: 19	16	
Three HMOs					
Goodman	3.5	11	Surplus: 23	11	
Hicks & Glenn	3.2	10	Surplus: 24	10	
Solucient	4.7	14	Surplus: 20	15	
Average Requirement	4.2	13	Surplus: 21	13	



## 31 PCSA Physician Standard Report

Included Counties: Columbia, Lincoln, Richmond

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k	Physician Need	Population
<b>Orthopedic Surgery</b>		<b>307,473</b>	<b>54</b>	<b>17.6</b>	<b>310,389</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	8.3	26	Surplus: 28	26	
Two Mature HMO	6.8	21	Surplus: 33	21	
Adjusted FTE	6.4	20	Surplus: 34	20	
GMENAC	6.0	18	Surplus: 36	19	
Kaiser Portland	5.9	18	Surplus: 36	18	
7 Kaiser Plans	4.2	13	Surplus: 41	13	
GHC Seattle	6.7	21	Surplus: 33	21	
Three HMOs	3.0	9	Surplus: 45	9	
Goodman	5.9	18	Surplus: 36	18	
Hicks & Glenn	4.2	13	Surplus: 41	13	
Solucient	6.1	19	Surplus: 35	19	
Average Requirement	5.5	17	Surplus: 37	17	

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k	Physician Need	Population
<b>Otolaryngology</b>		<b>307,473</b>	<b>25</b>	<b>8.1</b>	<b>310,389</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	3.4	10	Surplus: 15	11	
Two Mature HMO	3.2	10	Surplus: 15	10	
Adjusted FTE					
GMENAC	3.2	10	Surplus: 15	10	
Kaiser Portland	3.4	10	Surplus: 15	11	
7 Kaiser Plans	2.4	7	Surplus: 18	7	
GHC Seattle	3.0	9	Surplus: 16	9	
Three HMOs					
Goodman					
Hicks & Glenn					
Solucient					
Average Requirement	3.0	9	Surplus: 16	9	

## 31 PCSA Physician Standard Report

Included Counties: Columbia, Lincoln, Richmond

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k	Population	
<b>Pathology</b>		<b>307,473</b>	<b>35</b>	<b>11.4</b>	<b>310,389</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	6.3	19	Surplus: 16	20	
Two Mature HMO	1.9	6	Surplus: 29	6	
Adjusted FTE	1.8	6	Surplus: 29	6	
GMENAC	6.4	20	Surplus: 15	20	
Kaiser Portland	3.3	10	Surplus: 25	10	
7 Kaiser Plans	1.8	6	Surplus: 29	6	
GHC Seattle					
Three HMOs					
Goodman	4.1	13	Surplus: 22	13	
Hicks & Glenn					
Solucient					
Average Requirement	3.2	10	Surplus: 25	10	

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k	Population	
<b>Pediatrics</b>		<b>307,473</b>	<b>98</b>	<b>31.9</b>	<b>310,389</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	24.9	77	Surplus: 21	77	
Two Mature HMO	16.6	51	Surplus: 47	52	
Adjusted FTE	15.5	48	Surplus: 50	48	
GMENAC	12.4	38	Surplus: 60	38	
Kaiser Portland	11.9	37	Surplus: 61	37	
7 Kaiser Plans	16.0	49	Surplus: 49	50	
GHC Seattle					
Three HMOs	9.8	30	Surplus: 68	30	
Goodman					
Hicks & Glenn	7.6	23	Surplus: 75	24	
Solucient	13.9	43	Surplus: 55	43	
Average Requirement	13.0	40	Surplus: 58	40	

## 31 PCSA Physician Standard Report

Included Counties: Columbia, Lincoln, Richmond

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k	Physician Need	Population
<b>Plastic Surgery</b>		<b>307,473</b>	<b>17</b>	<b>5.5</b>	<b>310,389</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	2.4	7	Surplus: 10	7	
Two Mature HMO					
Adjusted FTE					
GMENAC	1.1	3	Surplus: 14	3	
Kaiser Portland	0.3	1	Surplus: 16	1	
7 Kaiser Plans					
GHC Seattle	0.4	1	Surplus: 16	1	
Three HMOs					
Goodman	1.1	3	Surplus: 14	3	
Hicks & Glenn	2.3	7	Surplus: 10	7	
Solucient	2.2	7	Surplus: 10	7	
Average Requirement	1.2	4	Surplus: 13	4	

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k	Physician Need	Population
<b>Psychiatry</b>		<b>307,473</b>	<b>74</b>	<b>24.1</b>	<b>310,389</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	13.6	42	Surplus: 32	42	
Two Mature HMO	7.7	24	Surplus: 50	24	
Adjusted FTE	7.2	22	Surplus: 52	22	
GMENAC	15.4	47	Surplus: 27	48	
Kaiser Portland	5.2	16	Surplus: 58	16	
7 Kaiser Plans	4.1	13	Surplus: 61	13	
GHC Seattle					
Three HMOs					
Goodman	7.2	22	Surplus: 52	22	
Hicks & Glenn	3.9	12	Surplus: 62	12	
Solucient	5.7	18	Surplus: 56	18	
Average Requirement	7.1	22	Surplus: 52	22	

## 31 PCSA Physician Standard Report

Included Counties: Columbia, Lincoln, Richmond

Physician Specialty	2008 Actual			2015 Projected
	Population	Physicians /100k		Population
<b>Pulmonary Diseases</b>	<b>307,473</b>	<b>25</b>	<b>8.1</b>	<b>310,389</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	3.5	11	Surplus: 14	11
Two Mature HMO	2.0	6	Surplus: 19	6
Adjusted FTE	1.9	6	Surplus: 19	6
GMENAC	1.4	4	Surplus: 21	4
Kaiser Portland	1.4	4	Surplus: 21	4
7 Kaiser Plans	1.0	3	Surplus: 22	3
GHC Seattle	1.4	4	Surplus: 21	4
Three HMOs				
Goodman	1.4	4	Surplus: 21	4
Hicks & Glenn				
Solucient	1.3	4	Surplus: 21	4
Average Requirement	1.5	5	Surplus: 20	5

Physician Specialty	2008 Actual			2015 Projected
	Population	Physicians /100k		Population
<b>Radiology</b>	<b>307,473</b>	<b>61</b>	<b>19.8</b>	<b>310,389</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	11.4	35	Surplus: 26	35
Two Mature HMO	13.6	42	Surplus: 19	42
Adjusted FTE	13.7	42	Surplus: 19	43
GMENAC	7.7	24	Surplus: 37	24
Kaiser Portland	8.5	26	Surplus: 35	26
7 Kaiser Plans	4.7	14	Surplus: 47	15
GHC Seattle	7.7	24	Surplus: 37	24
Three HMOs				
Goodman	8.0	25	Surplus: 36	25
Hicks & Glenn				
Solucient				
Average Requirement	9.1	28	Surplus: 33	28

## 31 PCSA Physician Standard Report

Included Counties: Columbia, Lincoln, Richmond

Physician Specialty	2008 Actual			2015 Projected
	Population	Physicians /100k		Population
<b>Rheumatology</b>	<b>307,473</b>	<b>12</b>	<b>3.9</b>	<b>310,389</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	1.5	5	Surplus: 7	5
Two Mature HMO	1.1	3	Surplus: 9	3
Adjusted FTE	1.0	3	Surplus: 9	3
GMENAC	0.7	2	Surplus: 10	2
Kaiser Portland	0.4	1	Surplus: 11	1
7 Kaiser Plans	0.7	2	Surplus: 10	2
GHC Seattle	0.7	2	Surplus: 10	2
Three HMOs				
Goodman	0.4	1	Surplus: 11	1
Hicks & Glenn				
Solucient	1.3	4	Surplus: 8	4
Average Requirement	0.8	2	Surplus: 10	2

Physician Specialty	2008 Actual			2015 Projected
	Population	Physicians /100k		Population
<b>General Surgery</b>	<b>307,473</b>	<b>54</b>	<b>17.6</b>	<b>310,389</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need
AMA	12.5	38	Surplus: 16	39
Two Mature HMO	9.4	29	Surplus: 25	29
Adjusted FTE	8.8	27	Surplus: 27	27
GMENAC	9.7	30	Surplus: 24	30
Kaiser Portland	7.0	22	Surplus: 32	22
7 Kaiser Plans	6.2	19	Surplus: 35	19
GHC Seattle	5.9	18	Surplus: 36	18
Three HMOs	4.2	13	Surplus: 41	13
Goodman	9.7	30	Surplus: 24	30
Hicks & Glenn	4.1	13	Surplus: 41	13
Solucient	6.0	18	Surplus: 36	19
Average Requirement	7.1	22	Surplus: 32	22

## 31 PCSA Physician Standard Report

Included Counties: Columbia, Lincoln, Richmond

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k	Physician Need	Population
<b>Thoracic Surgery</b>		<b>307,473</b>	<b>4</b>	<b>1.3</b>	<b>310,389</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	1.5	5	Deficit: -1	5	
Two Mature HMO					
Adjusted FTE					
GMENAC	0.8	2	Surplus: 2	2	
Kaiser Portland	0.1	0	Surplus: 4	0	
7 Kaiser Plans					
GHC Seattle					
Three HMOs					
Goodman					
Hicks & Glenn					
Solucient					
Average Requirement	0.5	2	Surplus: 2	2	

Physician Specialty		2008 Actual			2015 Projected
		Population	Physicians /100k	Physician Need	Population
<b>Urology</b>		<b>307,473</b>	<b>18</b>	<b>5.9</b>	<b>310,389</b>
National Physician Standards*	Standard Phys/100,000 Pop.	Physician Need	Status	Physician Need	
AMA	3.5	11	Surplus: 7	11	
Two Mature HMO	3.5	11	Surplus: 7	11	
Adjusted FTE	3.3	10	Surplus: 8	10	
GMENAC	3.1	10	Surplus: 8	10	
Kaiser Portland	3.3	10	Surplus: 8	10	
7 Kaiser Plans	2.3	7	Surplus: 11	7	
GHC Seattle	2.9	9	Surplus: 9	9	
Three HMOs					
Goodman	2.6	8	Surplus: 10	8	
Hicks & Glenn	1.9	6	Surplus: 12	6	
Solucient	2.9	9	Surplus: 9	9	
Average Requirement	2.9	9	Surplus: 9	9	

## 31 PCSA Physician Standard Report

Included Counties: Columbia, Lincoln, Richmond

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 328:1480-152. 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.