

2014 Positron Emission Tomography Scanner Need Projection

Health Planning Area	2014 Projected Population ¹	Sum of Projected Cancer Cases ²	Projected number of cancer patients that may benefit from scan ³	Projected number of PET patients ⁴	Projected number of PET units needed statewide per HPA ⁵	Existing and Approved PET/CT Units ⁶	Projected Unmet Need (Deficit) or Surplus ⁷	Unmet Need (Type Unit Allowed) ⁷	Aggregate Utilization ⁸
HPA 01	818,409	3,873	1,936	2,711	0.99	2.20	1.2115	No Units Needed	36.8%
HPA 02	515,241	2,596	1,298	1,817	0.66	1.00	0.3393	No Units Needed	31.9%
HPA 03	5,117,446	23,563	11,781	16,494	6.00	14.06	8.0652	No Units Needed	53.9%
HPA 04	514,378	2,454	1,227	1,718	0.62	1.00	0.3752	No Units Needed	28.3%
HPA 05	563,402	2,619	1,310	1,833	0.67	1.24	0.5772	No Units Needed	29.2%
HPA 06	551,753	2,606	1,303	1,824	0.66	1.21	0.5503	No Units Needed	82.7%
HPA 07	462,176	2,153	1,076	1,507	0.55	2.00	1.4520	No Units Needed	22.7%
HPA 08	369,683	1,672	836	1,170	0.43	1.45	1.0210	No Units Needed	85.6%
HPA 09	153,145	636	318	445	0.16	0.00	(0.1618)	Mobile Unit	0.0%
HPA 10	561,565	2,572	1,286	1,800	0.65	4.54	3.8878	No Units Needed	37.2%
HPA 11	381,870	1,832	916	1,283	0.47	2.31	1.8404	No Units Needed	183.0%
HPA 12	247,893	1,152	576	806	0.29	1.22	0.9219	No Units Needed	129.9%
HPA 13	366,805	1,725	862	1,207	0.44	1.31	0.8692	No Units Needed	36.5%
	10,623,766	49,452	24,726	34,616	12.59	33.54			48.8%

Notes and Sources:

¹ 2014 Resident Projected Population, Georgia Governor's Office of Planning and Budget, 4/2006 Release

² Projected cancer cases is determined by applying the most recent cancer incidence rates to the horizon year population. From "Age-Adjusted Cancer Incidence Rates per 100,000 (2002-2006)" reported by the Georgia Comprehensive Cancer Registry; Georgia Division of Public Health (<http://www.health.state.ga.us/programs/gccr/data.asp>); released Spring, 2009.

³ Projected cancer cases who may benefit from PET scans is 50% of the projected number of cancer cases.

⁴ The projected number of PET scan patients is determined by assuming that cancer cases account for two-thirds of all PET scans. The number of projected cancer cases who may benefit from a scan is multiplied by **1.4** to determine the number of projected PET patients.

⁵ The number of PET scan units projected by HPA is determined by using an optimal utilization standard of **2,750** scans per unit per year. Projected number of PET patients is divided by **2,750**.

⁶ Total Existing PET/CT scanner units reported. Mobile units allocated by HPA as reported.

⁷ Projected unmet need is from the sum of the existing and approved PET scanners less the projected number of PET scan units in the horizon year. Where the projected unmet need is greater than -75.0% a fixed unit is allowed. If projected unmet need is greater than -3.2875% but less than -75.0% a mobile site is allowed.

⁸ Aggregate utilization based on survey data for all units that were operational during 2008. Calculated by dividing the actual total number of scans by the capacity number of scans as if the available units were operating at optimal utilization. Aggregate utilization must be at or above 80% before new units will be approved.

