

2016 Positron Emission Tomography Scanner Need Projection

Health Planning Area	2016 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	819,127	3,923	1,961	2,354	0.86	3.28	2.4277	No Units Needed	42.0%
HPA 02	542,374	2,722	1,361	1,633	0.59	1.00	0.4060	No Units Needed	33.3%
HPA 03	5,446,805	25,429	12,714	15,257	5.55	18.05	12.5067	No Units Needed	53.5%
HPA 04	561,112	2,643	1,321	1,586	0.58	1.00	0.4234	No Units Needed	35.3%
HPA 05	587,323	2,734	1,367	1,640	0.60	1.25	0.6569	No Units Needed	29.7%
HPA 06	571,580	2,753	1,376	1,652	0.60	1.19	0.5857	No Units Needed	76.0%
HPA 07	497,658	2,345	1,172	1,407	0.51	1.14	0.6254	No Units Needed	64.3%
HPA 08	398,449	1,854	927	1,113	0.40	1.17	0.7626	No Units Needed	43.7%
HPA 09	158,409	677	338	406	0.15	0.13	(0.0189)	No Units Needed	41.2%
HPA 10	638,406	2,941	1,470	1,764	0.64	3.54	2.8954	No Units Needed	31.5%
HPA 11	401,573	1,974	987	1,184	0.43	2.07	1.6406	No Units Needed	28.6%
HPA 12	274,516	1,278	639	767	0.28	1.24	0.9651	No Units Needed	144.2%
HPA 13	392,764	1,774	887	1,064	0.39	0.81	0.4267	No Units Needed	84.8%
	11,290,096	53,045	26,523	31,827	11.57	35.88			48.8%

Notes and Sources:

¹ 2016 Resident Projected Population, Georgia Governor's Office of Planning and Budget, 4/2011 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 (2004-2008)" reported by the Georgia Comprehensive Cancer Registry; Georgia Division of Public Health (<http://www.health.state.ga.us/programs/gccr/data.asp>); released Spring, 2011.

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 using the actual ratio of Oncology to Non-Oncology PET scans from the most recent 2 years.

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 2010. 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.

