

2020 Positron Emission Tomography Scanner Need Projection

Health Planning Area	2020 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	885,014	4,037	2,018	2,624	0.95	3.43	2.4732	No Units Needed	32.6%
HPA 02	602,966	2,929	1,464	1,904	0.69	1.00	0.3078	No Units Needed	40.4%
HPA 03	5,909,615	27,763	13,881	18,046	6.56	20.15	13.5832	No Units Needed	40.8%
HPA 04	619,053	2,983	1,491	1,939	0.70	1.00	0.2950	No Units Needed	35.4%
HPA 05	644,868	3,144	1,572	2,044	0.74	2.05	1.3034	No Units Needed	25.6%
HPA 06	603,195	2,859	1,429	1,858	0.68	1.27	0.5901	No Units Needed	90.0%
HPA 07	524,772	2,299	1,149	1,494	0.54	1.14	0.5937	No Units Needed	43.8%
HPA 08	418,200	1,968	984	1,279	0.47	1.36	0.8939	No Units Needed	31.5%
HPA 09	165,204	680	340	442	0.16	0.15	(0.0156)	No Units Needed	79.9%
HPA 10	686,810	3,147	1,574	2,046	0.74	3.27	2.5301	No Units Needed	33.5%
HPA 11	419,507	2,028	1,014	1,318	0.48	2.11	1.6275	No Units Needed	26.1%
HPA 12	289,422	1,428	714	928	0.34	1.15	0.8076	No Units Needed	32.6%
HPA 13	420,626	1,846	923	1,200	0.44	1.26	0.8212	No Units Needed	52.5%
	12,189,252	57,109	28,555	37,121	13.50	39.31			39.5%

Notes and Sources:

¹ 2020 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 (2009-2013)" reported by the Georgia Comprehensive Cancer Registry; Georgia Department of Public Health (<http://dph.georgia.gov/cancer-reports>); released 2015.

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 2014. 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.