

2021

Positron Emission Tomography Scanner Need Projection

Health Planning Area	2021 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	759,548	3,455	1,727	2,418	0.88	3.49	2.6110	No Units Needed	24.3%
HPA 02	495,811	2,409	1,205	1,686	0.61	1.00	0.3868	No Units Needed	40.4%
HPA 03	5,397,250	25,340	12,670	17,738	6.45	18.44	11.9855	No Units Needed	40.0%
HPA 04	529,452	2,546	1,273	1,782	0.65	1.00	0.3518	No Units Needed	38.1%
HPA 05	545,811	2,661	1,330	1,862	0.68	2.00	1.3255	No Units Needed	33.2%
HPA 06	553,079	2,618	1,309	1,833	0.67	1.28	0.6129	No Units Needed	91.1%
HPA 07	508,759	2,221	1,110	1,554	0.57	1.28	0.7115	No Units Needed	46.0%
HPA 08	393,763	1,848	924	1,294	0.47	1.35	0.8816	No Units Needed	31.6%
HPA 09	154,547	631	316	442	0.16	0.20	0.0365	No Units Needed	68.4%
HPA 10	660,140	3,020	1,510	2,114	0.77	3.32	2.5464	No Units Needed	37.6%
HPA 11	366,314	1,766	883	1,237	0.45	2.07	1.6202	No Units Needed	26.9%
HPA 12	270,907	1,336	668	935	0.34	1.15	0.8051	No Units Needed	38.7%
HPA 13	388,952	1,706	853	1,194	0.43	1.13	0.7001	No Units Needed	55.9%
	11,024,333	51,557	25,779	36,090	13.12	37.70			39.4%

Notes and Sources:

¹ 2021 Resident Projected Population, Georgia Governor's Office of Planning and Budget, 6/24/2016 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 2015. 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.