

## 2019 Positron Emission Tomography Scanner Need Projection

Health Planning Area	2019 Projected Population <sup>1</sup>	Sum of Projected Cancer Cases <sup>2</sup>	Projected number of cancer patients that may benefit from scan <sup>3</sup>	Projected number of PET patients <sup>4</sup>	Projected number of PET units needed statewide per HPA <sup>5</sup>	Existing and Approved PET/CT Units <sup>6</sup>	Projected Unmet Need (Deficit) or Surplus <sup>7</sup>	Unmet Need (Type Unit Allowed) <sup>7</sup>	Aggregate Utilization <sup>8</sup>
HPA 01	868,038	4,108	2,054	2,670	0.97	3.35	2.3797	No Units Needed	31.3%
HPA 02	587,174	2,849	1,425	1,852	0.67	1.00	0.3265	No Units Needed	37.6%
HPA 03	5,790,222	27,842	13,921	18,097	6.58	19.11	12.5288	No Units Needed	49.0%
HPA 04	604,020	2,873	1,436	1,867	0.68	1.00	0.3210	No Units Needed	47.5%
HPA 05	630,035	2,941	1,470	1,912	0.70	2.24	1.5433	No Units Needed	29.7%
HPA 06	595,174	2,855	1,428	1,856	0.67	1.27	0.5909	No Units Needed	84.2%
HPA 07	517,909	2,380	1,190	1,547	0.56	1.14	0.5745	No Units Needed	57.2%
HPA 08	413,128	1,957	978	1,272	0.46	1.20	0.7402	No Units Needed	42.3%
HPA 09	163,505	675	337	438	0.16	0.14	(0.0170)	No Units Needed	60.2%
HPA 10	674,347	2,999	1,500	1,949	0.71	3.26	2.5542	No Units Needed	39.1%
HPA 11	414,979	2,063	1,031	1,341	0.49	2.10	1.6166	No Units Needed	32.6%
HPA 12	285,640	1,375	688	894	0.33	1.14	0.8188	No Units Needed	31.8%
HPA 13	413,470	1,787	894	1,162	0.42	1.02	0.6023	No Units Needed	64.4%
	<b>11,957,641</b>	<b>56,702</b>	<b>28,351</b>	<b>36,857</b>	<b>13.40</b>	<b>37.98</b>			<b>45.8%</b>

### Notes and Sources:

<sup>1</sup> 2019 Resident Projected Population, Georgia Governor's Office of Planning and Budget, 4/2011 Release

<sup>2</sup> 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 (2006-2010)" reported by the Georgia Comprehensive Cancer Registry; Georgia Department of Public Health (<http://dph.georgia.gov/cancer-reports>); released 2013.

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

<sup>4</sup> 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.

<sup>5</sup> 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**.

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

<sup>7</sup> 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.

<sup>8</sup> Aggregate utilization based on survey data for all units that were operational during 2013. 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.

