

2013 Positron Emission Tomography Scanner Need Projection

Health Planning Area	2013 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	802,560	3,645	1,822	2,551	0.93	1.20	0.2682	No Units Needed	73.9%
HPA 02	502,803	2,339	1,169	1,637	0.60	1.03	0.4376	No Units Needed	24.9%
HPA 03	5,004,967	23,665	11,833	16,566	6.02	12.06	6.0391	No Units Needed	48.9%
HPA 04	502,410	2,301	1,150	1,611	0.59	1.00	0.4143	No Units Needed	30.3%
HPA 05	551,399	2,486	1,243	1,740	0.63	1.16	0.5317	No Units Needed	23.8%
HPA 06	545,690	2,609	1,305	1,827	0.66	1.13	0.4673	No Units Needed	82.1%
HPA 07	459,111	2,031	1,016	1,422	0.52	1.00	0.4830	No Units Needed	30.1%
HPA 08	368,650	1,670	835	1,169	0.43	0.45	0.0243	No Units Needed	72.9%
HPA 09	151,945	632	316	442	0.16	0.05	(0.1061)	Mobile Unit	31.2%
HPA 10	555,951	2,486	1,243	1,740	0.63	2.69	2.0548	No Units Needed	46.2%
HPA 11	379,097	1,829	915	1,280	0.47	2.40	1.9316	No Units Needed	109.3%
HPA 12	246,327	1,161	581	813	0.30	0.22	(0.0806)	Mobile Unit	87.9%
HPA 13	363,210	1,679	840	1,176	0.43	0.44	0.0164	No Units Needed	98.7%
	10,434,120	48,534	24,267	33,974	12.35	24.84			49.5%

Notes and Sources:

¹ 2013 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 (1999-2003)" reported by the Georgia Comprehensive Cancer Registry; Georgia Division of Public Health.

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% a fixed unit is allowed. If projected unmet need is greater than 3.2875% but less than 75% a mobile site is allowed.

⁸ Aggregate utilization based on survey data for all units that were operational during 2006. 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.

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Positron Emission Tomography Units - Projected Need by HPA - Summary Calculations Table and Directions													
PROJECTING DEMAND						DETERMINING SUPPLY							
Column A	Column B	Column C	Column D	Column E	Column F	Column G	Column H	Column I	Column J	Column K	Column L	Column M	Column N
Health Planning Area	Resident Population Projections	Projected Cancer Cases	Projected Cancer Patients That May Have Scans	Projected Patients That May Need Scans	Projected PET Units Needed	Existing and Approved PET/CT Units			Existing Units Only	Scans Possible at Optimal Utilization	Net Numeric Unmet Need [PET Unit (Deficit)/Surplus]	Aggregate Utilization	Units Allowed
						Fixed	Mobile	Total					
HPA 01	802,560	3,645	1,822	2,551	0.93	1.00	0.1959	1.196	0	539	0.2682	73.9%	No Units Needed
HPA 02	502,803	2,339	1,169	1,637	0.60	1.00	0.0329	1.033	1	2,840	0.4376	24.9%	No Units Needed
HPA 03	5,004,967	23,665	11,833	16,566	6.02	11.00	1.0630	12.063	10	27,673	6.0391	48.9%	No Units Needed
HPA 04	502,410	2,301	1,150	1,611	0.59	1.00	0.0000	1.000	1	2,750	0.4143	30.3%	No Units Needed
HPA 05	551,399	2,486	1,243	1,740	0.63	1.00	0.1644	1.164	1	3,202	0.5317	23.8%	No Units Needed
HPA 06	545,690	2,609	1,305	1,827	0.66	1.00	0.1315	1.132	1	3,112	0.4673	82.1%	No Units Needed
HPA 07	459,111	2,031	1,016	1,422	0.52	1.00	0.0000	1.000	1	2,750	0.4830	30.1%	No Units Needed
HPA 08	368,650	1,670	835	1,169	0.43	0.00	0.4493	0.449	0	1,236	0.0243	72.9%	No Units Needed
HPA 09	151,945	632	316	442	0.16	0.00	0.0548	0.055	0	151	(0.1061)	31.2%	Mobile Unit
HPA 10	555,951	2,486	1,243	1,740	0.63	2.00	0.6877	2.688	2	4,641	2.0548	46.2%	No Units Needed
HPA 11	379,097	1,829	915	1,280	0.47	2.00	0.3973	2.397	0	1,092	1.9316	109.3%	No Units Needed
HPA 12	246,327	1,161	581	813	0.30	0.00	0.2151	0.215	0	591	(0.0806)	87.9%	Mobile Unit
HPA 13	363,210	1,679	840	1,176	0.43	0.00	0.4438	0.444	0	1,221	0.0164	98.7%	No Units Needed
Statewide	10,434,120	48,534	24,267	33,974	12.35	21.00	3.84	24.836	19	51,798		49.5%	

Notes and Directions

- Column A - Standard 13 Division of Health Planning planning areas.
- Column B - Insert horizon year, population series, and projected population totals by planning area.
- Column C - Summarizes projected cancer cases for the horizon year by HPA [Step A-PET Component Plan]. Cancer cases are projected by multiplying the Projected Population per county by the Cancer Incidence Rate for the county. Cancer Incidence Rates are derived from the most recent Georgia Cancer Data Report.
- Column D - Summarizes the projected number of cancer patients who may receive PET scans in the horizon year by HPA [Step B-PET Component Plan]. Assumes that cancer cases account for 50% of PET scans. [Number of Projected Cancer Cases x 50%]
- Column E - Summarizes the projected number of patients that may need scans in the horizon year by HPA [Steps C & D]. [Column D-Projected Number of Cancer Patients Receiving Scans x 1.4]
- Column F - Summarizes the projected number of PET units needed in the horizon year by HPA [Step E]. Assumes Optimal Utilization by unit. Optimal Utilization is set at 2,750 scans per year per unit. [Total Number of Patients Needing a Scan / 2,750]
- Column G, H, I - Total existing fixed-based PET/CT scanner units by HPA and total existing mobile units allocated by actual utilization rather than authorized HPA.
- Column J - Existing fixed-based and allocated mobile units as reported in the most recent survey year.
- Column K - Summarizes the total number of scans possible per year per HPA if available scanners were at optimal utilization (2,750 scans per unit per year).
- Column L - Summarizes the Net Numerical Unmet Need by HPA [Step F]. Subtract the total number of existing and approved units (Column I) from the Projected PET Units Needed (Column F).
- Column M - Aggregate utilization based on survey data for all units that were operational during 2006. [Total scans on PET/CT units / Possible Scans at Optimal (Column K)] Must be at or above 80% for approval.
- Column N - Type of Unit Allowed when numeric need is present. If the Numeric Need found in Column L by planning area >75%, then a fixed-based unit can be awarded. If Numeric Need >3.2875%, but <75%, then a mobile unit is allowed where Aggregate utilization is also equal to or greater than 80%.

2013 Positron Emission Tomography Scanner Need Projection

RECONCILE SUPPLY WITH DEMAND - STEPS 6 THRU 8												
HPA	Step 6 - Net Unmet Need						Step 7	Step 8 - Aggregate Utilization				
	Existing Fixed-Based PET/CT Units	Approved Fixed-Based PET/CT Units	Mobile PET/CT Unit Allocation	Existing and Approved PET/CT Units	Projected Units Needed at Optimal Utilization (Step 5)	Projected Net Unmet Need in 2013	Type of Unit Potentially Needed if Any	Total Scans Possible for Existing PET/CT Units at Optimal Utilization	Total Fixed-Based PET/CT Scans	Total Mobile PET/CT Unit Scans	Total PET Scans	Aggregate Utilization
HPA 01	0	1	0.1959	1.1959	0.93	0.2682	N/A	539	0	398	398	73.9%
HPA 02	1	0	0.0329	1.0329	0.60	0.4376	N/A	2,840	670	38	708	24.9%
HPA 03	9	2	1.0630	12.0630	6.02	6.0391	N/A	27,673	11,298	2,233	13,531	48.9%
HPA 04	1	0	0.0000	1.0000	0.59	0.4143	N/A	2,750	834	0	834	30.3%
HPA 05	1	0	0.1644	1.1644	0.63	0.5317	N/A	3,202	535	226	761	23.8%
HPA 06	1	0	0.1315	1.1315	0.66	0.4673	N/A	3,112	2,260	296	2,556	82.1%
HPA 07	1	0	0.0000	1.0000	0.52	0.4830	N/A	2,750	828	0	828	30.1%
HPA 08	0	0	0.4493	0.4493	0.43	0.0243	N/A	1,236	0	901	901	72.9%
HPA 09	0	0	0.0548	0.0548	0.16	(0.1061)	Mobile Unit	151	0	47	47	31.2%
HPA 10	1	1	0.6877	2.6877	0.63	2.0548	N/A	4,641	1,123	1,021	2,144	46.2%
HPA 11	0	2	0.3973	2.3973	0.47	1.9316	N/A	1,092	0	1,194	1,194	109.3%
HPA 12	0	0	0.2151	0.2151	0.30	(0.0806)	Mobile Unit	591	0	520	520	87.9%
HPA 13	0	0	0.4438	0.4438	0.43	0.0164	N/A	1,221	0	1,205	1,205	98.7%
Totals	15	6	4	25	12.35	12.4816		51,798	17,548	8,079	25,627	49.5%

Reconciling Demand with Supply

Step 6 - Determine the net numerical unmet need for PET scan unit(s) by subtracting the total number of fixed-based PET/CT units currently existing or approved and the number of mobile PET/CT units allocated for each HPA from the projected number of units needed from Step 5. The number of mobile PET/CT units is determined by taking the number of days the mobile vendor reported providing services to sites within each planning area and divided by 365. See 111-2-2-.41(3)(a)1(vi).

Step 7 – Determine the type of unit(s) allowed by HPA using the following standards:

Fixed-based PET Scan Unit – When the net numerical need in an HPA from Step 6 is 1 or more a fixed-based PET scan unit will be allowed. If the net numerical need in an HPA is at or above 75% of a unit (meaning that 2,062 individuals need scans) the needed units shall be rounded up by one unit.

Mobile PET Scan Unit - If the net numerical need in an HPA from Step 6 is at or above 3.2875% of a unit (approximately 90 individuals needing scans) but less than 75% of a unit (2,062 individuals needing scans) a mobile unit may be approved for the planning area. See 111-2-2-.41(3)(a)1(vii)

Step 8 – Determine the aggregate utilization rate for units in an HPA in the most recent survey year by dividing the actual total number of scans reported by existing PET/CT providers during the year by the number of scans possible at optimal utilization.

[Total PET/CT Scans by HPA / (Total Existing PET/CT Units Reported X 2,750)]

The aggregate utilization rate from existing providers must equal or exceed 80% in an HPA before approval of a new or expanded unit in a planning area. See 111-2-2-.41(3)(a)2.

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PROJECTING DEMAND BY COUNTY - STEPS 1 & 2					
STEP 1					STEP 2
A	B	C	D	E	F
HPA	County	Resident Population Projections	Age-Adjusted Cancer Incidence Rates per 100,000 (1999-2003)	Projected Cancer Cases	Projected Cancer Patients Who May Benefit from PET Scan
HPA 1	Bartow	115,273	525.5	606	303
HPA 1	Catoosa	74,975	361.0	271	135
HPA 1	Chattooga	29,859	394.8	118	59
HPA 1	Dade	18,383	351.3	65	32
HPA 1	Fannin	26,351	410.7	108	54
HPA 1	Floyd	103,381	482.3	499	249
HPA 1	Gilmer	34,656	435.6	151	75
HPA 1	Gordon	60,727	461.4	280	140
HPA 1	Haralson	33,642	442.2	149	74
HPA 1	Murray	49,596	412.9	205	102
HPA 1	Pickens	40,662	475.5	193	97
HPA 1	Polk	45,456	504.6	229	115
HPA 1	Walker	68,229	441.6	301	151
HPA 1	Whitfield	101,370	463.7	470	235
HPA 2	Banks	19,263	397.1	77	38
HPA 2	Dawson	27,829	484.4	135	67
HPA 2	Franklin	24,351	418.3	102	51
HPA 2	Habersham	47,245	443.2	209	105
HPA 2	Hall	213,677	476.0	1,017	509
HPA 2	Hart	24,971	450.0	112	56
HPA 2	Lumpkin	30,352	514.9	156	78
HPA 2	Rabun	18,654	420.5	78	39
HPA 2	Stephens	25,861	445.2	115	58
HPA 2	Towns	12,352	463.0	57	29
HPA 2	Union	25,576	471.2	121	60
HPA 2	White	32,672	486.7	159	80
HPA 3	Cherokee	252,612	497.4	1,256	628
HPA 3	Clayton	340,150	419.6	1,427	714
HPA 3	Cobb	781,051	476.9	3,725	1,862
HPA 3	Dekalb	720,274	457.8	3,297	1,649
HPA 3	Douglas	136,363	491.0	670	335
HPA 3	Fayette	125,566	435.0	546	273
HPA 3	Forsyth	213,124	479.2	1,021	511
HPA 3	Fulton	830,392	496.9	4,126	2,063
HPA 3	Gwinnett	966,680	451.2	4,362	2,181
HPA 3	Henry	256,892	508.8	1,307	654
HPA 3	Newton	125,914	497.3	626	313
HPA 3	Paulding	163,463	505.6	826	413
HPA 3	Rockdale	92,486	513.4	475	237

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HPA	County	Resident Population Projections	Age-Adjusted Cancer Incidence Rates per 100,000 (1999-2003)	Projected Cancer Cases	Projected Cancer Patients Who May Benefit from PET Scan
HPA 4	Barrow	79,028	483.1	382	191
HPA 4	Clarke	113,782	460.7	524	262
HPA 4	Elbert	21,125	415.5	88	44
HPA 4	Greene	18,253	478.6	87	44
HPA 4	Jackson	66,135	468.3	310	155
HPA 4	Madison	31,953	477.7	153	76
HPA 4	Morgan	21,310	450.0	96	48
HPA 4	Oconee	35,215	408.9	144	72
HPA 4	Oglethorpe	15,868	452.3	72	36
HPA 4	Walton	99,741	447.0	446	223
HPA 5	Butts	34,790	472.5	164	82
HPA 5	Carroll	136,542	455.0	621	311
HPA 5	Coweta	144,026	442.3	637	319
HPA 5	Heard	11,655	446.7	52	26
HPA 5	Lamar	18,368	471.9	87	43
HPA 5	Meriwether	23,404	375.6	88	44
HPA 5	Pike	19,633	425.8	84	42
HPA 5	Spalding	68,063	436.1	297	148
HPA 5	Troup	65,616	486.6	319	160
HPA 5	Upson	29,302	466.3	137	68
HPA 6	Baldwin	46,339	443.5	206	103
HPA 6	Bibb	155,087	500.8	777	388
HPA 6	Crawford	12,955	369.9	48	24
HPA 6	Hancock	11,173	443.5	50	25
HPA 6	Houston	153,459	487.4	748	374
HPA 6	Jasper	16,532	455.2	75	38
HPA 6	Jones	31,731	411.6	131	65
HPA 6	Monroe	28,505	495.2	141	71
HPA 6	Peach	26,709	571.8	153	76
HPA 6	Putnam	22,418	428.8	96	48
HPA 6	Twiggs	10,267	444.8	46	23
HPA 6	Washington	20,133	456.3	92	46
HPA 6	Wilkinson	10,382	466.7	48	24
HPA 7	Burke	25,275	448.7	113	57
HPA 7	Columbia	126,059	439.2	554	277
HPA 7	Emanuel	22,034	422.1	93	47
HPA 7	Glascock	2,921	466.3	14	7
HPA 7	Jefferson	16,168	407.5	66	33
HPA 7	Jenkins	9,361	451.1	42	21
HPA 7	Lincoln	9,172	449.9	41	21
HPA 7	McDuffie	22,135	449.1	99	50
HPA 7	Richmond	192,504	447.3	861	430
HPA 7	Screven	15,635	437.5	68	34
HPA 7	Taliaferro	1,656	355.8	6	3
HPA 7	Warren	5,515	492.9	27	14
HPA 7	Wilkes	10,676	433.9	46	23

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HPA	County	Resident Population Projections	Age-Adjusted Cancer Incidence Rates per 100,000 (1999-2003)	Projected Cancer Cases	Projected Cancer Patients Who May Benefit from PET Scan
HPA 8	Chattahoochee	24,717	545.5	135	67
HPA 8	Clay	3,391	0	0	0
HPA 8	Crisp	21,983	480.4	106	53
HPA 8	Dooly	11,633	471.2	55	27
HPA 8	Harris	33,528	408.9	137	69
HPA 8	Macon	14,404	474.7	68	34
HPA 8	Marion	7,303	445.8	33	16
HPA 8	Muscogee	182,858	465.5	851	426
HPA 8	Quitman	2,234	0	0	0
HPA 8	Randolph	6,546	416.1	27	14
HPA 8	Schley	4,753	480.3	23	11
HPA 8	Stewart	4,293	353.0	15	8
HPA 8	Sumter	32,913	459.2	151	76
HPA 8	Talbot	6,776	414.5	28	14
HPA 8	Taylor	9,216	443.7	41	20
HPA 8	Webster	2,102	0	0	0
HPA 9	Bleckley	12,729	432.7	55	28
HPA 9	Dodge	20,501	440.9	90	45
HPA 9	Johnson	9,659	333.2	32	16
HPA 9	Laurens	51,458	449.5	231	116
HPA 9	Montgomery	10,660	418.4	45	22
HPA 9	Pulaski	10,347	433.0	45	22
HPA 9	Telfair	10,936	406.6	44	22
HPA 9	Treutlen	7,821	346.2	27	14
HPA 9	Wheeler	8,618	217.0	19	9
HPA 9	Wilcox	9,216	471.3	43	22
HPA 10	Bryan	36,486	370	135	67
HPA 10	Bulloch	66,654	426.8	284	142
HPA 10	Candler	11,808	387.1	46	23
HPA 10	Chatham	247,530	449.7	1,113	557
HPA 10	Effingham	60,846	462.2	281	141
HPA 10	Evans	14,272	460.0	66	33
HPA 10	Liberty	54,678	492.3	269	135
HPA 10	Long	12,391	397.6	49	25
HPA 10	Tattnall	23,352	493.8	115	58
HPA 10	Toombs	27,934	455.7	127	64

2013 Positron Emission Tomography Scanner Need Projection

STEP 1					STEP 2
A	B	C	D	E	F
HPA	County	Resident Population Projections	Age-Adjusted Cancer Incidence Rates per 100,000 (1999-2003)	Projected Cancer Cases	Projected Cancer Patients Who May Benefit from PET Scan
HPA 11	Baker	5,130	377.7	19	10
HPA 11	Calhoun	5,514	580.1	32	16
HPA 11	Colquitt	46,465	505.5	235	117
HPA 11	Decatur	28,311	433.0	123	61
HPA 11	Dougherty	93,918	518.9	487	244
HPA 11	Early	11,897	318.4	38	19
HPA 11	Grady	26,005	476.8	124	62
HPA 11	Lee	43,057	405.6	175	87
HPA 11	Miller	6,135	394.4	24	12
HPA 11	Mitchell	23,754	539.0	128	64
HPA 11	Seminole	9,652	387.5	37	19
HPA 11	Terrell	10,458	619.6	65	32
HPA 11	Thomas	47,352	526.2	249	125
HPA 11	Worth	21,449	433.6	93	47
HPA 12	Ben Hill	16,487	585.2	96	48
HPA 12	Berrien	17,409	412.4	72	36
HPA 12	Brooks	15,636	443.7	69	35
HPA 12	Cook	17,157	461.5	79	40
HPA 12	Echols	4,882	0	0	0
HPA 12	Irwin	10,578	417.9	44	22
HPA 12	Lanier	7,812	587.3	46	23
HPA 12	Lowndes	103,079	487.2	502	251
HPA 12	Tift	43,496	459.6	200	100
HPA 12	Turner	9,791	534.8	52	26
HPA 13	Appling	19,132	454.3	87	43
HPA 13	Atkinson	9,109	414.2	38	19
HPA 13	Bacon	10,302	423.0	44	22
HPA 13	Brantley	17,734	314.3	56	28
HPA 13	Camden	51,645	467.1	241	121
HPA 13	Charlton	12,619	368.5	46	23
HPA 13	Clinch	7,438	482.4	36	18
HPA 13	Coffee	44,309	470.3	208	104
HPA 13	Glynn	79,213	495.0	392	196
HPA 13	Jeff Davis	13,841	480.7	67	33
HPA 13	McIntosh	11,634	499.3	58	29
HPA 13	Pierce	18,751	467.2	88	44
HPA 13	Ware	36,464	440.1	160	80
HPA 13	Wayne	31,019	511.4	159	79
Statewide Totals:		10,434,120	453.3	48,534	24,267
				Col E = Col C X (Col D / 100,000)	
				Col F = Col E X 0.50	

Projecting the Number of Cancer Patients Needing PET Scan by County

Step 1 – Calculate the projected incidence of cancer for each county by multiplying the most recent age-adjusted cancer incidence rate published by the State Cancer Registry for each county by the horizon year population for the county. See 111-2-2-.41(3)9a1(i).

Step 2 - Multiply the projected incidence of cancer calculated in Step 1 by 50% to determine the projected number of patients diagnosed with cancer who might benefit from a PET scan in each county. See 111-2-2-.41(3)(a)1(ii).

2013 Positron Emission Tomography Scanner Need Projection

PROJECTING DEMAND BY HPA - STEPS 1 thru 6					
STEP 1			STEPS 2 & 3	STEP 4	STEP 5
A	B	C	D	E	F
Health Planning Area	Resident Population Projections by HPA	Projected Number of Cancer Cases	Projected Number of Cancer Patients Who May Benefit From PET Scan	Projected Number of All Patients Who May Need PET Scan	Projected PET Units Needed per HPA
HPA01	802,560	3,645	1,822	2,551	0.93
HPA02	502,803	2,339	1,169	1,637	0.60
HPA03	5,004,967	23,665	11,833	16,566	6.02
HPA04	502,410	2,301	1,150	1,611	0.59
HPA05	551,399	2,486	1,243	1,740	0.63
HPA06	545,690	2,609	1,305	1,827	0.66
HPA07	459,111	2,031	1,016	1,422	0.52
HPA08	368,650	1,670	835	1,169	0.43
HPA09	151,945	632	316	442	0.16
HPA10	555,951	2,486	1,243	1,740	0.63
HPA11	379,097	1,829	915	1,280	0.47
HPA12	246,327	1,161	581	813	0.30
HPA13	363,210	1,679	840	1,176	0.43
Statewide	10,434,120	48,534	24,267	33,974	12.35
	Col B = HPA Sum	Col C = HPA Sum	Col D = Col C X 0.50	Col E = Col D X 1.4	Col F = Col E / 2,750

Projecting Demand

Step 1 – Calculate the projected incidence of cancer for each county by multiplying the most recent age-adjusted cancer incidence rate published by the State Cancer Registry for each county by the horizon year population for the county. See 111-2-2-.41(3)9a)1(i).

Step 2 - Multiply the projected incidence of cancer calculated in Step 1 by 50% to determine the projected number of patients diagnosed with cancer who might benefit from a PET scan in each county. See 111-2-2-.41(3)(a)1(ii).

Step 3 – Summarize the number of cancer cases that might benefit from a scan determined in Step 2 for each of the 13 Health Planning Areas (HPA) to determine the estimated need for services within a Health Planning Area for persons diagnosed with cancer. See 111-2-2-.41(3)(a)1(iii).

Step 4 – Estimate the number of individuals who might receive PET scanning services by multiplying the number of cancer cases by HPA from Step 3 by 1.4, which accommodates for non-oncology patients and for follow-up scans for oncology patients. See 111-2-2-.41(3)(a)1(iv).

Projected Number of Cancer Patients Receiving Scans x 1.4

Step 5 - Calculate the (gross) number of PET units needed in the horizon year by HPA by dividing the number of individuals who might receive scanning services as determined in Step 4 by the optimal utilization standard which is 2,750 scans per unit per year. See 111-2-2-.41(3)(a)1(v).

Total Number of Patients Needing a Scan / 2,750

2013 Positron Emission Tomography Scanner Need Projection

FIXED-BASED UNIT UTILIZATION FOR 2006

Year	HPA	UID	County	PET Provider	Type of Unit	CON Project Number	Operational Status of PET Unit(s)	Technology Type	PET Scan Units Authorized	PET Scan Units Existing	Units Existing and Approved	Total PET Patients (All PET Services)	Total PET Scans (All PET Services)
2006	HPA 01		Floyd	Rome Imaging Center (The Center)	Freestanding	2000007	Operational	PET Only	0	1	1	746	746
NYR	HPA 01		Catoosa	Battlefield Imaging Center	Freestanding	2003077	Operational	PET/CT	1	0	1	0	0
2006	HPA 02		Hall	Northeast Georgia Medical Center	General	2002121	Operational	PET/CT	0	1	1	670	670
2006	HPA 03		Cobb	WellStar Kennestone Hospital	General	1991037	Operational	PET/CT	0	1	1	2,068	2,659
NYO	HPA 03		DeKalb	Children's Healthcare of Atlanta at Egleston	General	2004007	Not Yet Operational	PET/CT	1	0	1	0	0
2006	HPA 03		DeKalb	Decatur Health Imaging, LLC	Freestanding	2001042	Operational	PET/CT	0	1	1	1,746	1,746
2006	HPA 03		DeKalb	DeKalb Medical Center	General	2003028	Operational	PET/CT	0	1	1	387	387
2006	HPA 03		DeKalb	Emory University Hospital	General	2001092	Operational	PET/CT	0	1	1	1,479	1,800
2006	HPA 03		DeKalb	The Emory Clinic Winship Cancer Institute	Freestanding	2003074	Operational	PET/CT	0	1	1	1,640	1,926
NYO	HPA 03		DeKalb	The Emory Clinic Winship Cancer Institute	Freestanding	2004078	Not Yet Operational. Transfer	PET/CT	1	0	1	0	0
2006	HPA 03		Fayette	PET Imaging Center of Fayetteville	Freestanding	2001008	Operational	PET/CT	0	1	1	1,258	1,730
2006	HPA 03		Fulton	Emory Crawford Long Hospital	General	1991049	Operational	PET Only	0	1	1	1,727	1,763
2006	HPA 03		Fulton	Piedmont Hospital	General	2001115	Operational	PET/CT	0	1	1	964	1,095
2006	HPA 03		Fulton	Saint Joseph's Hospital of Atlanta	General	1987060	Operational	PET/CT	0	1	1	817	1,029
2006	HPA 03		Gwinnett	PET Imaging Center of Lawrenceville	Freestanding	2001007	Operational	PET/CT	0	1	1	939	1,263
2006	HPA 04		Clarke	Athens Regional Medical Center	General	2001076	Operational	PET/CT	0	1	1	834	834
2006	HPA 05		Carroll	Tanner Medical Center-Carrollton	General	2004031	Operational	PET/CT	0	1	1	535	596
2006	HPA 06		Bibb	Central Georgia PET, LLC	Freestanding	2001120	Operational	PET/CT	0	1	1	2,260	2,894
2006	HPA 07		Richmond	Medical College of Georgia Hospitals and Clinics	General	2001053	Operational	PET/CT	0	1	1	828	1,115
2006	HPA 07		Richmond	University Hospital	General	2001049	Operational	PET Only	0	1	1	734	826
2006	HPA 08		n/a	n/a	n/a	n/a	n/a	n/a	0	0	0	0	0
2006	HPA 09		n/a	n/a	n/a	n/a	n/a	n/a	0	0	0	0	0
2006	HPA 10		Chatham	PET Imaging Center of Savannah	Freestanding	2001010	Operational	PET/CT	0	1	1	1,123	1,352
2006	HPA 10		Chatham	Memorial Health University Medical Center	General	2007-062	Not Yet Operational	PET/CT	1	0	1	0	0
2006	HPA 11		Thomas	John D. Archbold Memorial Hospital	General	2007-126	Not Yet Operational	PET/CT	1	0	1	0	0
2006	HPA 11		Dougherty	Phoebe Putney Memorial Hospital	General	2007-099	Not Yet Operational	PET/CT	1	0	1	0	0
2006	HPA 12		n/a	n/a	n/a	n/a	n/a	n/a	0	0	0	0	0
2006	HPA 13		n/a	n/a	n/a	n/a	n/a	n/a	0	0	0	0	0
									6	18	24	20,755	24,431

Source:
PET Utilization: Annual Positron Emission Tomography Services Survey, Division of Health Planning

2013 Positron Emission Tomography Scanner Need Projection

AVAILABLE MOBILE UNIT UTILIZATION FOR 2005																					
Survey Year:				2006			2006			2006			2006			2006			Totals		
HPA	Total Cases	Total Days	Total Unit Allocation	P.E.T. Scans of America Corporation (2000-027 Unit) <small>DTRC096; GA2000027 Operational</small>			Georgia Institute for Lung Cancer Research, Inc. (GILCR) <small>DTRC097; GA2000033 Operational</small>			Pet Imaging, LLC <small>DTRC098; 2000049 Operational</small>			Diagnostic PET, LLC <small>DTRC125; 2001017 Operational</small>			P.E.T. Scans of America Corporation (2001-094 Unit) <small>DTRC128; 2001094 Operational</small>					
				Cases	Days	Unit Allocation	Cases	Days	Unit Allocation	Cases	Days	Unit Allocation	Cases	Days	Unit Allocation	Cases	Days	Unit Allocation	Cases	Days	Units
HPA 01	398	71.50	0	0	0.00	0.0000	0	0.00	0.0000	0	0.00	0.0000	398	71.50	0.1959	0	0.00	0.0000	398	71.50	0.1959
HPA 02	38	12.00	0	0	0.00	0.0000	0	0.00	0.0000	0	0.00	0.0000	38	12.00	0.0329	0	0.00	0.0000	38	12.00	0.0329
HPA 03	2,233	388.00	1	0	0.00	0.0000	1,579	192.00	0.5260	0	0.00	0.0000	217	52.00	0.1425	437	144.00	0.3945	2,233	388.00	1.0630
HPA 04	0	0.00	0	0	0.00	0.0000	0	0.00	0.0000	0	0.00	0.0000	0	0.00	0.0000	0	0.00	0.0000	0	0.00	0.0000
HPA 05	226	60.00	0	0	0.00	0.0000	0	0.00	0.0000	99	30.00	0.0822	127	30.00	0.0822	0	0.00	0.0000	226	60.00	0.1644
HPA 06	296	48.00	0	0	0.00	0.0000	0	0.00	0.0000	200	36.00	0.0986	96	12.00	0.0329	0	0.00	0.0000	296	48.00	0.1315
HPA 07	0	0.00	0	0	0.00	0.0000	0	0.00	0.0000	0	0.00	0.0000	0	0.00	0.0000	0	0.00	0.0000	0	0.00	0.0000
HPA 08	901	164.00	0	0	0.00	0.0000	0	0.00	0.0000	610	104.00	0.2849	35	12.00	0.0329	256	48.00	0.1315	901	164.00	0.4493
HPA 09	47	20.00	0	0	0.00	0.0000	0	0.00	0.0000	47	20.00	0.0548	0	0.00	0.0000	0	0.00	0.0000	47	20.00	0.0548
HPA 10	1,021	251.00	1	315	96.00	0.2630	97	48.00	0.1315	77	29.00	0.0795	532	78.00	0.2137	0	0.00	0.0000	1,021	251.00	0.6877
HPA 11	1,194	145.00	0	0	0.00	0.0000	0	0.00	0.0000	1,066	133.00	0.3644	128	12.00	0.0329	0	0.00	0.0000	1,194	145.00	0.3973
HPA 12	520	78.50	0	0	0.00	0.0000	0	0.00	0.0000	520	78.50	0.2151	0	0.00	0.0000	0	0.00	0.0000	520	78.50	0.2151
HPA 13	1,205	162.00	0	830	96.00	0.2630	0	0.00	0.0000	0	0.00	0.0000	375	66.00	0.1808	0	0.00	0.0000	1,205	162.00	0.4438
Totals	8,079	1,400.00	3.8356	1,145	192.00	1	1,676	240.00	1	2,619	430.50	1	1,946	345.50	1	693	192.00	1	8,079	1,400.00	3.8356

Sources:

Cases: 2006 Annual Positron Emission Tomography Services Survey, Division of Health Planning

Mobile Unit Allocation based on actual utilization by HPA.