

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	3,793	1,897	2,655	0.97	1.20	0.2303	No Units Needed	73.9%
HPA 02	502,803	2,410	1,205	1,687	0.61	1.03	0.4194	No Units Needed	24.9%
HPA 03	5,004,967	23,669	11,835	16,569	6.02	12.06	6.0381	No Units Needed	48.9%
HPA 04	502,410	2,365	1,182	1,655	0.60	1.00	0.3981	No Units Needed	30.3%
HPA 05	551,399	2,537	1,269	1,776	0.65	1.16	0.5185	No Units Needed	23.8%
HPA 06	545,690	2,623	1,311	1,836	0.67	1.13	0.4639	No Units Needed	82.1%
HPA 07	459,111	2,114	1,057	1,480	0.54	1.00	0.4619	No Units Needed	30.1%
HPA 08	368,650	1,709	855	1,196	0.44	0.45	0.0143	No Units Needed	72.9%
HPA 09	151,945	637	319	446	0.16	0.05	(0.1074)	Mobile Unit	31.2%
HPA 10	555,951	2,595	1,297	1,816	0.66	2.69	2.0272	No Units Needed	46.2%
HPA 11	379,097	1,859	930	1,301	0.47	2.40	1.9240	No Units Needed	109.3%
HPA 12	246,327	1,177	589	824	0.30	0.22	(0.0846)	Mobile Unit	87.9%
HPA 13	363,210	1,743	872	1,220	0.44	0.44	0.0001	No Units Needed	98.7%
	10,434,120	49,232	24,616	34,463	12.53	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 (2000-2004)" 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 -75.0% a fixed unit is allowed. If projected unmet need is greater than -3.2875% but less than -75.0% a mobile site is allowed.

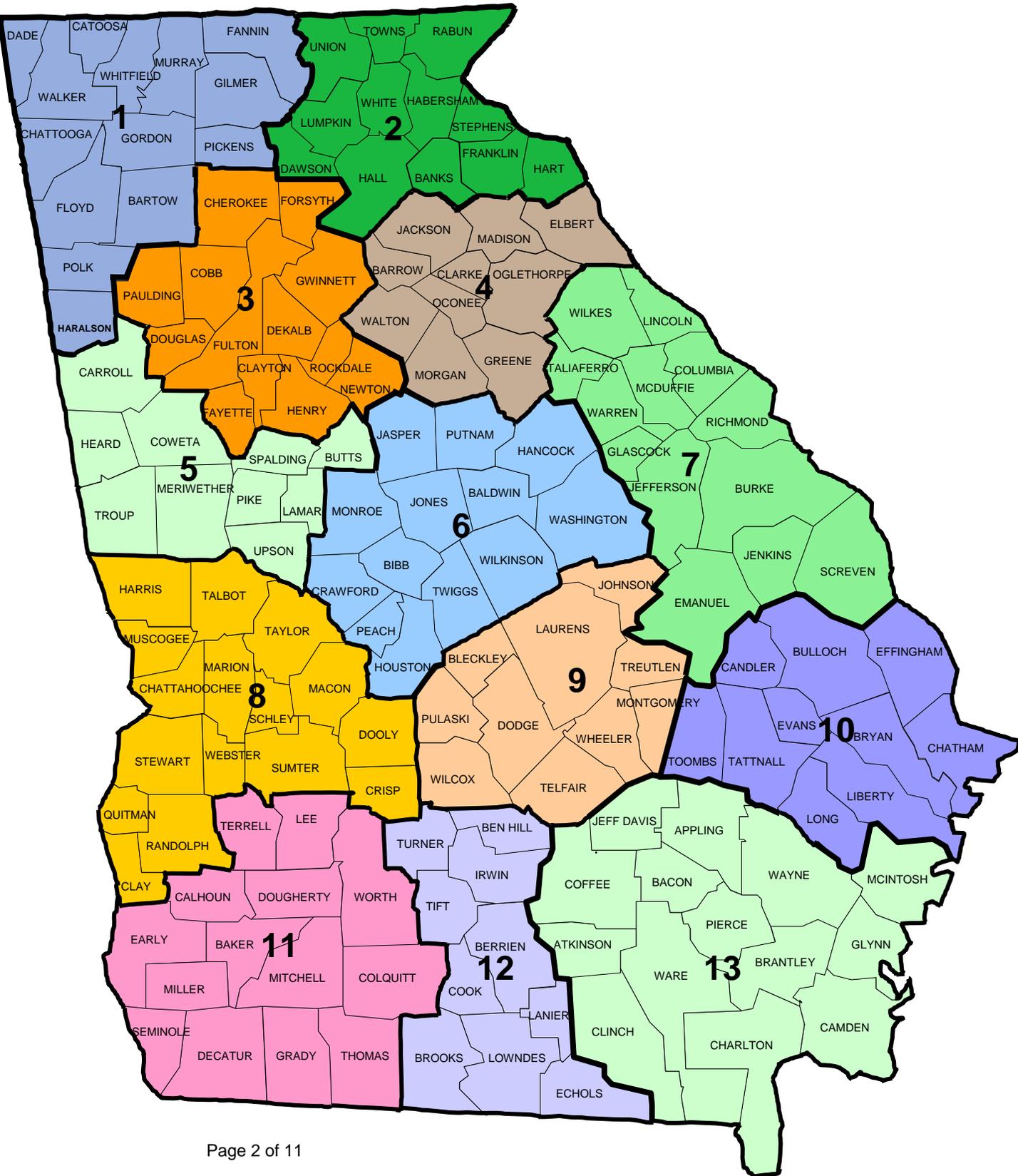
⁸ Aggregate utilization based on survey data for all units that were operational during 2006. Calculated by dividing the actual total number of scans by the capacity number of scans as if the available units were operating at optimal utilization. Aggregate utilization must be at or above 80% before new units will be approved.

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Prepared by: Data Resources and Analysis Section, Division of Health Planning

HEALTH PLANNING AREAS



2013 Positron Emission Tomography Scanner Need Projection

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	3,793	1,897	2,655	0.97	1.00	0.1959	1.196	0	539	0.2303	73.9%	No Units Needed
HPA 02	502,803	2,410	1,205	1,687	0.61	1.00	0.0329	1.033	1	2,840	0.4194	24.9%	No Units Needed
HPA 03	5,004,967	23,669	11,835	16,569	6.02	11.00	1.0630	12.063	10	27,673	6.0381	48.9%	No Units Needed
HPA 04	502,410	2,365	1,182	1,655	0.60	1.00	0.0000	1.000	1	2,750	0.3981	30.3%	No Units Needed
HPA 05	551,399	2,537	1,269	1,776	0.65	1.00	0.1644	1.164	1	3,202	0.5185	23.8%	No Units Needed
HPA 06	545,690	2,623	1,311	1,836	0.67	1.00	0.1315	1.132	1	3,112	0.4639	82.1%	No Units Needed
HPA 07	459,111	2,114	1,057	1,480	0.54	1.00	0.0000	1.000	1	2,750	0.4619	30.1%	No Units Needed
HPA 08	368,650	1,709	855	1,196	0.44	0.00	0.4493	0.449	0	1,236	0.0143	72.9%	No Units Needed
HPA 09	151,945	637	319	446	0.16	0.00	0.0548	0.055	0	151	(0.1074)	31.2%	Mobile Unit
HPA 10	555,951	2,595	1,297	1,816	0.66	2.00	0.6877	2.688	2	4,641	2.0272	46.2%	No Units Needed
HPA 11	379,097	1,859	930	1,301	0.47	2.00	0.3973	2.397	0	1,092	1.9240	109.3%	No Units Needed
HPA 12	246,327	1,177	589	824	0.30	0.00	0.2151	0.215	0	591	(0.0846)	87.9%	Mobile Unit
HPA 13	363,210	1,743	872	1,220	0.44	0.00	0.4438	0.444	0	1,221	0.0001	98.7%	No Units Needed
Statewide	10,434,120	49,232	24,616	34,463	12.53	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	0.97	0.2303	N/A	539	0	398	398	73.9%
HPA 02	1	0	0.0329	1.0329	0.61	0.4194	N/A	2,840	670	38	708	24.9%
HPA 03	9	2	1.0630	12.0630	6.02	6.0381	N/A	27,673	11,298	2,233	13,531	48.9%
HPA 04	1	0	0.0000	1.0000	0.60	0.3981	N/A	2,750	834	0	834	30.3%
HPA 05	1	0	0.1644	1.1644	0.65	0.5185	N/A	3,202	535	226	761	23.8%
HPA 06	1	0	0.1315	1.1315	0.67	0.4639	N/A	3,112	2,260	296	2,556	82.1%
HPA 07	1	0	0.0000	1.0000	0.54	0.4619	N/A	2,750	828	0	828	30.1%
HPA 08	0	0	0.4493	0.4493	0.44	0.0143	N/A	1,236	0	901	901	72.9%
HPA 09	0	0	0.0548	0.0548	0.16	(0.1074)	Mobile Unit	151	0	47	47	31.2%
HPA 10	1	1	0.6877	2.6877	0.66	2.0272	N/A	4,641	1,123	1,021	2,144	46.2%
HPA 11	0	2	0.3973	2.3973	0.47	1.9240	N/A	1,092	0	1,194	1,194	109.3%
HPA 12	0	0	0.2151	0.2151	0.30	(0.0846)	Mobile Unit	591	0	520	520	87.9%
HPA 13	0	0	0.4438	0.4438	0.44	0.0001	N/A	1,221	0	1,205	1,205	98.7%
Totals	15	6	4	25	12.53	12.3038		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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2013 Positron Emission Tomography Scanner Need Projection

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 (2000-2004)	Projected Cancer Cases	Projected Cancer Patients Who May Benefit from PET Scan
HPA 1	Bartow	115,273	522.9	603	301
HPA 1	Catoosa	74,975	423.5	318	159
HPA 1	Chattooga	29,859	417.2	125	62
HPA 1	Dade	18,383	451.2	83	41
HPA 1	Fannin	26,351	436.5	115	58
HPA 1	Floyd	103,381	483.8	500	250
HPA 1	Gilmer	34,656	425.1	147	74
HPA 1	Gordon	60,727	468.8	285	142
HPA 1	Haralson	33,642	456.0	153	77
HPA 1	Murray	49,596	449.8	223	112
HPA 1	Pickens	40,662	497.2	202	101
HPA 1	Polk	45,456	508.0	231	115
HPA 1	Walker	68,229	475.8	325	162
HPA 1	Whitfield	101,370	477.6	484	242
HPA 2	Banks	19,263	437.7	84	42
HPA 2	Dawson	27,829	486.1	135	68
HPA 2	Franklin	24,351	430.9	105	52
HPA 2	Habersham	47,245	458.9	217	108
HPA 2	Hall	213,677	484.8	1,036	518
HPA 2	Hart	24,971	462.2	115	58
HPA 2	Lumpkin	30,352	534.6	162	81
HPA 2	Rabun	18,654	436.4	81	41
HPA 2	Stephens	25,861	476.1	123	62
HPA 2	Towns	12,352	480.3	59	30
HPA 2	Union	25,576	500.6	128	64
HPA 2	White	32,672	499.9	163	82
HPA 3	Cherokee	252,612	506.9	1,281	640
HPA 3	Clayton	340,150	416.7	1,418	709
HPA 3	Cobb	781,051	472.9	3,694	1,847
HPA 3	Dekalb	720,274	462.2	3,329	1,665
HPA 3	Douglas	136,363	496.8	677	339
HPA 3	Fayette	125,566	458.9	576	288
HPA 3	Forsyth	213,124	493.3	1,051	526
HPA 3	Fulton	830,392	478.0	3,969	1,985
HPA 3	Gwinnett	966,680	455.9	4,407	2,203
HPA 3	Henry	256,892	515.3	1,324	662
HPA 3	Newton	125,914	498.6	628	314
HPA 3	Paulding	163,463	518.8	848	424
HPA 3	Rockdale	92,486	506.5	468	234

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HPA	County	Resident Population Projections	Age-Adjusted Cancer Incidence Rates per 100,000 (2000-2004)	Projected Cancer Cases	Projected Cancer Patients Who May Benefit from PET Scan
HPA 4	Barrow	79,028	508.9	402	201
HPA 4	Clarke	113,782	471.1	536	268
HPA 4	Elbert	21,125	429.0	91	45
HPA 4	Greene	18,253	490.2	89	45
HPA 4	Jackson	66,135	470.5	311	156
HPA 4	Madison	31,953	487.9	156	78
HPA 4	Morgan	21,310	439.4	94	47
HPA 4	Oconee	35,215	438.6	154	77
HPA 4	Oglethorpe	15,868	445.4	71	35
HPA 4	Walton	99,741	461.8	461	230
HPA 5	Butts	34,790	469.3	163	82
HPA 5	Carroll	136,542	451.1	616	308
HPA 5	Coweta	144,026	453.0	652	326
HPA 5	Heard	11,655	458.4	53	27
HPA 5	Lamar	18,368	517.3	95	48
HPA 5	Meriwether	23,404	406.1	95	48
HPA 5	Pike	19,633	428.7	84	42
HPA 5	Spalding	68,063	452.7	308	154
HPA 5	Troup	65,616	493.0	324	162
HPA 5	Upson	29,302	499.1	146	73
HPA 6	Baldwin	46,339	469.6	218	109
HPA 6	Bibb	155,087	508.0	788	394
HPA 6	Crawford	12,955	393.7	51	25
HPA 6	Hancock	11,173	459.7	51	26
HPA 6	Houston	153,459	479.6	736	368
HPA 6	Jasper	16,532	466.7	77	39
HPA 6	Jones	31,731	405.5	129	64
HPA 6	Monroe	28,505	474.1	135	68
HPA 6	Peach	26,709	571.8	153	76
HPA 6	Putnam	22,418	455.4	102	51
HPA 6	Twiggs	10,267	417.3	43	21
HPA 6	Washington	20,133	462.5	93	47
HPA 6	Wilkinson	10,382	454.8	47	24
HPA 7	Burke	25,275	456.7	115	58
HPA 7	Columbia	126,059	457.8	577	289
HPA 7	Emanuel	22,034	433.4	95	48
HPA 7	Glascocock	2,921	484.0	14	7
HPA 7	Jefferson	16,168	406.7	66	33
HPA 7	Jenkins	9,361	503.6	47	24
HPA 7	Lincoln	9,172	463.7	43	21
HPA 7	McDuffie	22,135	456.6	101	51
HPA 7	Richmond	192,504	469.7	904	452
HPA 7	Screven	15,635	438.1	69	34
HPA 7	Taliaferro	1,656	408.1	7	3
HPA 7	Warren	5,515	481.5	27	13
HPA 7	Wilkes	10,676	460.8	49	25

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HPA	County	Resident Population Projections	Age-Adjusted Cancer Incidence Rates per 100,000 (2000-2004)	Projected Cancer Cases	Projected Cancer Patients Who May Benefit from PET Scan
HPA 8	Chattahoochee	24,717	505.1	125	62
HPA 8	Clay	3,391	352.1	12	6
HPA 8	Crisp	21,983	461.1	101	51
HPA 8	Dooly	11,633	497.6	58	29
HPA 8	Harris	33,528	433.3	145	73
HPA 8	Macon	14,404	516.8	74	37
HPA 8	Marion	7,303	489.4	36	18
HPA 8	Muscogee	182,858	466.8	854	427
HPA 8	Quitman	2,234	498.9	11	6
HPA 8	Randolph	6,546	426.8	28	14
HPA 8	Schley	4,753	470.5	22	11
HPA 8	Stewart	4,293	384.8	17	8
HPA 8	Sumter	32,913	457.9	151	75
HPA 8	Talbot	6,776	396.4	27	13
HPA 8	Taylor	9,216	433.3	40	20
HPA 8	Webster	2,102	412	9	4
HPA 9	Bleckley	12,729	423.0	54	27
HPA 9	Dodge	20,501	465.2	95	48
HPA 9	Johnson	9,659	325.9	31	16
HPA 9	Laurens	51,458	459.8	237	118
HPA 9	Montgomery	10,660	444.3	47	24
HPA 9	Pulaski	10,347	419.9	43	22
HPA 9	Telfair	10,936	394.0	43	22
HPA 9	Treutlen	7,821	367.8	29	14
HPA 9	Wheeler	8,618	224.0	19	10
HPA 9	Wilcox	9,216	409.8	38	19
HPA 10	Bryan	36,486	490.1	179	89
HPA 10	Bulloch	66,654	434.2	289	145
HPA 10	Candler	11,808	390.3	46	23
HPA 10	Chatham	247,530	463.3	1,147	573
HPA 10	Effingham	60,846	460.8	280	140
HPA 10	Evans	14,272	484.4	69	35
HPA 10	Liberty	54,678	518.8	284	142
HPA 10	Long	12,391	429.0	53	27
HPA 10	Tattnall	23,352	494.3	115	58
HPA 10	Toombs	27,934	472.5	132	66

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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 (2000-2004)	Projected Cancer Cases	Projected Cancer Patients Who May Benefit from PET Scan
HPA 11	Baker	5,130	362.2	19	9
HPA 11	Calhoun	5,514	605.8	33	17
HPA 11	Colquitt	46,465	497.9	231	116
HPA 11	Decatur	28,311	429.3	122	61
HPA 11	Dougherty	93,918	522.8	491	246
HPA 11	Early	11,897	368.2	44	22
HPA 11	Grady	26,005	500.2	130	65
HPA 11	Lee	43,057	428.9	185	92
HPA 11	Miller	6,135	442.3	27	14
HPA 11	Mitchell	23,754	542.7	129	64
HPA 11	Seminole	9,652	414.7	40	20
HPA 11	Terrell	10,458	615.4	64	32
HPA 11	Thomas	47,352	528.7	250	125
HPA 11	Worth	21,449	437.7	94	47
HPA 12	Ben Hill	16,487	623.6	103	51
HPA 12	Berrien	17,409	420.5	73	37
HPA 12	Brooks	15,636	424.5	66	33
HPA 12	Cook	17,157	459.2	79	39
HPA 12	Echols	4,882	514.5	25	13
HPA 12	Irwin	10,578	437.8	46	23
HPA 12	Lanier	7,812	564.9	44	22
HPA 12	Lowndes	103,079	474.3	489	244
HPA 12	Tift	43,496	458.7	200	100
HPA 12	Turner	9,791	531.1	52	26
HPA 13	Appling	19,132	457.6	88	44
HPA 13	Atkinson	9,109	452.3	41	21
HPA 13	Bacon	10,302	424.1	44	22
HPA 13	Brantley	17,734	320.6	57	28
HPA 13	Camden	51,645	510.9	264	132
HPA 13	Charlton	12,619	402.4	51	25
HPA 13	Clinch	7,438	520.8	39	19
HPA 13	Coffee	44,309	475.2	211	105
HPA 13	Glynn	79,213	495.8	393	196
HPA 13	Jeff Davis	13,841	490.2	68	34
HPA 13	McIntosh	11,634	516.7	60	30
HPA 13	Pierce	18,751	500.0	94	47
HPA 13	Ware	36,464	463.5	169	84
HPA 13	Wayne	31,019	537.2	167	83
Georgia		10,434,120	469.4	49,232	24,616
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)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).

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	3,793	1,897	2,655	0.97
HPA02	502,803	2,410	1,205	1,687	0.61
HPA03	5,004,967	23,669	11,835	16,569	6.02
HPA04	502,410	2,365	1,182	1,655	0.60
HPA05	551,399	2,537	1,269	1,776	0.65
HPA06	545,690	2,623	1,311	1,836	0.67
HPA07	459,111	2,114	1,057	1,480	0.54
HPA08	368,650	1,709	855	1,196	0.44
HPA09	151,945	637	319	446	0.16
HPA10	555,951	2,595	1,297	1,816	0.66
HPA11	379,097	1,859	930	1,301	0.47
HPA12	246,327	1,177	589	824	0.30
HPA13	363,210	1,743	872	1,220	0.44
Statewide	10,434,120	49,232	24,616	34,463	12.53
	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.