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# **American Academy of Cosmetic Surgery 2008 Procedural Census**



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**Prepared by: RH Research  
February 2009**

## **2008 AMERICAN ACADEMY OF COSMETIC SURGERY (AACS) PROCEDURAL CENSUS**

### **KEY FINDINGS**

The estimated total number of patients treated by all AACS member practices in 2008 is just over 1.5 million patients (1,564,765). The total number of procedures performed by AACS members has increased by about 22%, or 278,212 procedures, since 2007.

An increase in the number of procedures performed was only seen among females, which showed 29% increase since 2007. The number of male procedures performed by AACS members declined by about 2% since last year.

The most commonly offered invasive cosmetic surgery procedures at AACS member practices in 2008 were liposuction (84%), blepharoplasty (63%), facelift (58%), forehead lift (48%), and abdominoplasty (42%). Since 2007, forehead lift has replaced sclerotherapy as the fourth most commonly offered procedure in 2008.

Among the top 15 most common invasive procedures at AACS member practices in 2008, the number of procedures performed on all patients from 2005 to 2008 has increased the most for abdominoplasty (a 170% increase), followed by liposuction (a 125% increase), sclerotherapy (a 78% increase) and breast lift (a 74% increase).

Among the top 15 most common invasive procedures at AACS member practices in 2008, the number of procedures has increased the most from 2005 to 2008 for sclerotherapy (a 150% increase) among men and abdominoplasty (a 175% increase) among women.

Among the top seven most common non-invasive procedures at AACS member practices in 2008, the number of patients treated has increased the most since 2005 for laser resurfacing (a 250% increase), chemical peels (a 158% increase) and Botox® (a 115% increase). By gender, the number of patients who received laser resurfacing treatments has increased the most from 2005 to 2008 for both males (a 456% increase) and females (a 215% increase).

The most commonly offered non-invasive cosmetic surgery procedures at AACS member practices in 2008 were Botox® (99%), Restylane®/Hylaform® (96%), chemical peels (80%), Radiesse®/Radiance® (73%) and laser hair removal (68%).

The mean cost per cosmetic surgery procedure as reported by AACS members in 2008 was highest among the top 15 invasive procedures for facelift (\$7,007), abdominoplasty (\$6,876), breast reduction (\$6,701), breast lift (\$5,723) and rhinoplasty (\$5,289). Among the top seven non-invasive procedures the mean cost was highest in 2008 for laser resurfacing (\$2,669), fat injections (\$2,339) and Radiesse®/Radiance® (\$712).

The mean age of patients treated by AACS members among the top 15 most commonly performed invasive procedures performed in 2008 has increased slightly for every procedure except sclerotherapy since 2007. The mean age of patients has increased the most from 2007 to 2008 for breast augmentation (3.1 years), forehead lift (2.4 years), and blepharoplasty (1.6 years).

The mean age of patients treated by AACS members among the top seven most commonly performed non-invasive procedures performed in 2008 has increased slightly for every procedure. The mean age of patients has increased the most from 2007 to 2008 for chemical peels (a 2.9 year increase).

## **Study Background**

The collection of accurate, timely statistical information is used by AACS to help promote cosmetic surgery to other organizations, state and federal decision-makers, and the public. Specifically, AACS publishes its annual Procedural Census representing the cosmetic procedures performed by AACS members in the past year. The specific objective of the 2008 AACS Procedural Census was to gather statistics from AACS member practices with regard to the types of procedures performed, the number patients served and the cost per procedure.

The design, implementation, and analysis of the survey was conducted by RH Research ([www.rhresearch.com](http://www.rhresearch.com)), an independent research and consulting firm specializing in surveys and statistics for non-profit, trade and professional associations. Members were invited via email to complete the survey online or by fax in mid December 2008. Several e-mail reminders were sent following the initial invitation.

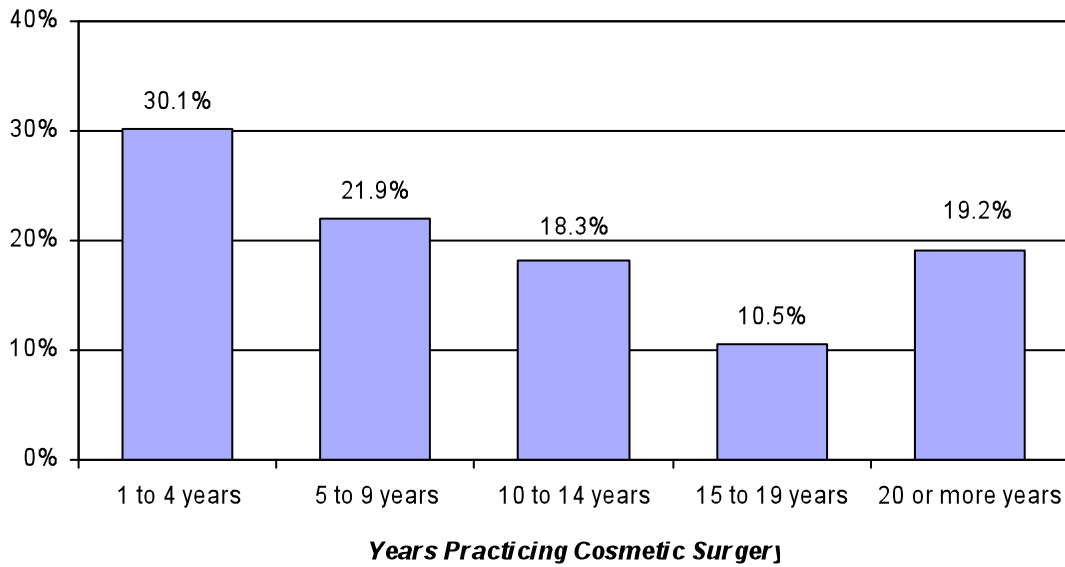
Of the 1,665 AACS members, 1,398 AACS members had valid emails and were invited to participate. A total of 219 responses were received, representing a response rate of 16 percent (219/1,398). This report does not include non-U.S. based surgeons for lack of audience size.

## **Methods and Sampling**

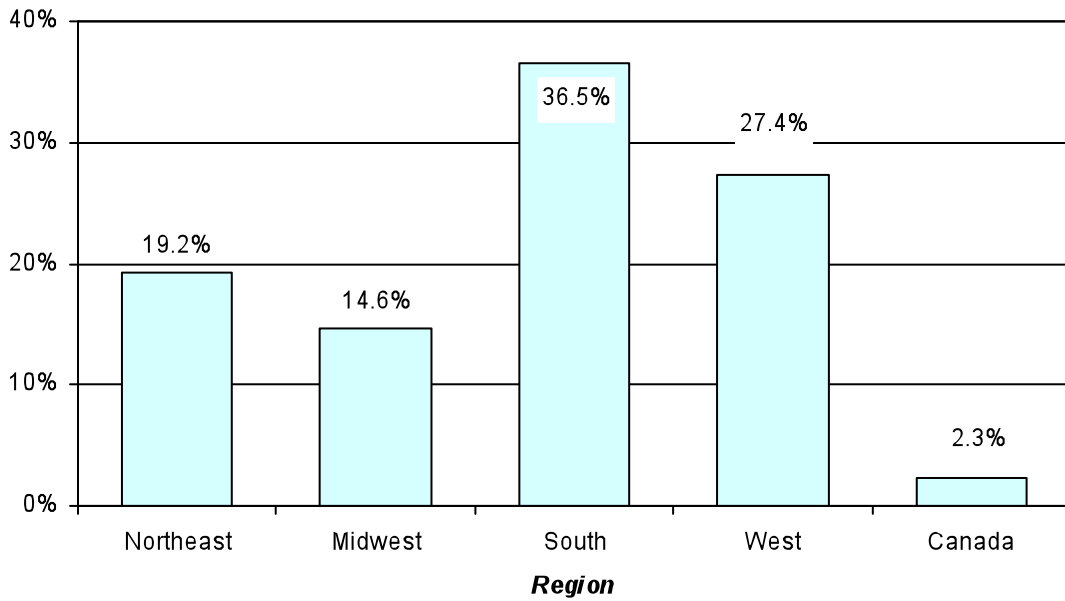
Sampling error (or margin of error) describes the statistical reliability of a random sample as an estimate of the entire population. The margin of error for a sample size of 219 out of a population of 1,398 is plus or minus 6.1%. For the estimated total AACS procedural volume, confidence intervals are provided, showing the lower and upper limits at the 95% confidence level, based on the sample size of 219 out of 1,398.

**Demographics**

**Figure 1.** Number of Years Responding AACS Members Have Practiced Cosmetic Surgery (N=219)



**Figure 2.** Respondent Practice Location by U.S. Census Region (N=219)



## Procedures Offered

**Table 1.** Procedures Offered by AACS Members

<b>Invasive Procedures (N=207)</b>	<b># Offering Procedure</b>	<b>% Offering Procedure</b>
(1) Liposuction	173	83.6%
(2) Blepharoplasty (eyelid surgery)	130	62.8%
(3) Facelift	119	57.5%
(4) Forehead lift	100	48.3%
(5) Abdominoplasty (tummy tuck)	86	41.5%
(6) Sclerotherapy (spider vein treatment)	86	41.5%
(7) Gynecomastia (male breast red)	85	41.1%
(8) Rhinoplasty (nose reshaping)	85	41.1%
(9) Breast augmentation	81	39.1%
(10) Otoplasty (ear surgery)	81	39.1%
(11) Genioplasty (chin reshaping)	78	37.7%
(12) Malar augmentation (cheek implant)	76	36.7%
(13) Lip implant	74	35.7%
(14) Breast lift	66	31.9%
(15) Breast reduction	63	30.4%
(16) Vaginal rejuvenation	41	19.8%
(17) Thigh lift	36	17.4%
(18) Buttock lift	34	16.4%
(19) Lower body lift	32	15.5%
(20) Hair transplant/restoration	29	14.0%
(21) Thread lift	26	12.6%
(22) Buttock implants	22	10.6%
(23) Calf implants	11	5.3%
(24) Pectoral implants	11	5.3%
(25) Penile enlargement	2	1.0%
<b>Non-invasive Procedures (N=208)</b>		
(1) Botox®	205	98.6%
(2) Hyaluronic acid (Restylane®/Hylaform®)	199	95.7%
(3) Chemical peels	166	79.8%
(4) Radiesse®/Radiance®	152	73.1%
(5) Laser hair removal	141	67.8%
(6) Fat injections	140	67.3%
(7) Laser resurfacing	137	65.9%
(8) Microdermabrasion	129	62.0%
(9) Collagen injections	98	47.1%
(10) Dermabrasion	87	41.8%
(11) Sculptra®	70	33.7%
(12) Thermage®	44	21.2%

**Number of Procedures**

**Table 2. 2008 Estimated<sup>1</sup> Male and Female Patients Treated by all AACS Member Practices with Row Percent Detail<sup>2</sup>**

<i>Invasive</i>	<i>Male Patients</i>			<i>Female Patients</i>			<i>All Patients</i>			
	<i>Number</i>	<i>Percent Male</i>	<i>N</i>	<i>Number</i>	<i>Percent Female</i>	<i>N</i>	<i>Number</i>	<i>N</i>	<i>Lower 95% CI</i>	<i>Upper 95% CI</i>
Abdominoplasty	661	4.5%	31	14,044	95.5%	71	14,704	71	13,545	15,864
Blepharoplasty	10,026	23.5%	81	32,576	76.5%	103	42,602	105	39,178	46,026
Breast augmentation	308	0.8%	6	40,630	99.2%	71	40,937	71	36,500	45,375
Breast lift	---	---	2	8,207	100.0%	56	8,207	56	7,255	9,214
Breast reduction	---	---	3	4,262	100.0%	51	4,262	51	3,729	4,886
Buttock implants	---	---	2	317	94.6%	13	335	14	299	371
Buttock lift	---	---	4	2,588	96.6%	27	2,678	27	2,209	3,148
Calf implants	54	35.3%	5	100	64.7%	5	154	8	130	178
Facelift	3,068	15.0%	60	17,410	85.0%	103	20,478	103	18,860	22,096
Forehead lift	1,611	17.7%	41	7,511	82.3%	74	9,121	78	8,245	9,997
Genioplasty	1,095	24.0%	38	3,475	76.0%	59	4,570	64	4,190	4,949
Gynecomastia	3,285	85.0%	59	579	15.0%	9	3,864	68	3,542	4,186
Hair transplant/restoration	10,723	82.1%	22	2,344	17.9%	15	13,067	24	10,142	15,992
Lip implant	534	5.5%	10	9,194	94.5%	49	9,728	50	8,118	11,337
Liposuction	21,392	19.0%	121	91,150	81.0%	146	112,541	148	104,135	120,948
Lower body lift	---	---	3	561	93.9%	15	597	16	457	737
Malar augmentation	525	18.2%	24	2,353	81.8%	46	2,878	49	2,539	3,216
Otoplasty	851	31.1%	42	1,882	68.9%	56	2,733	64	2,465	3,000
Pectoral implants	63	77.8%	5	---	---	1	81	5	64	99
Penile enlargement	---	---	2	---	---	0	---	2	---	---
Rhinoplasty	3,303	26.5%	48	9,158	73.5%	69	12,460	70	11,606	13,314
Sclerotherapy	6,579	17.1%	25	31,825	82.9%	63	38,404	64	33,847	42,961
Thigh lift	---	---	3	914	91.8%	26	995	26	883	1,108
Thread lift	579	29.2%	12	1,403	70.8%	20	1,982	23	1,674	2,289
Vaginal rejuvenation	---	---	2	2,597	98.3%	29	2,642	31	2,261	3,024
<b>Subtotal Invasive</b>	<b>64,944</b>	<b>18.6%</b>		<b>285,095</b>	<b>81.4%</b>		<b>350,039</b>		<b>315,891</b>	<b>384,332</b>
<b>Non-invasive</b>										
Botox®	54,855	15.1%	149	308,839	84.9%	178	363,694	178	341,045	386,343
Chemical peels	18,089	15.1%	67	101,520	84.9%	126	119,609	129	104,716	134,501
Collagen injections	3,194	14.4%	26	18,948	85.6%	56	22,143	56	17,741	26,544
Dermabrasion	1,547	17.6%	31	7,239	82.4%	51	8,786	55	7,607	9,966
Fat injections	3,402	13.8%	49	21,211	86.2%	106	24,613	108	22,255	26,971
Hyaluronic acid (Restylane®/Hylaform®)	21,944	11.7%	90	165,052	88.3%	167	186,996	167	171,677	202,314
Laser hair removal	38,956	19.1%	81	164,799	80.9%	111	203,754	112	177,996	229,513
Laser resurfacing	11,058	22.8%	60	37,354	77.2%	102	48,412	103	42,387	54,436
Microdermabrasion	17,618	12.6%	57	121,807	87.4%	92	139,426	93	120,420	158,431
Radiesse®/Radiance®	9,890	14.3%	70	59,144	85.7%	118	69,034	119	62,495	75,574
Sculptra®	5,257	29.1%	32	12,822	70.9%	47	18,080	49	14,960	21,200
Thermage®	1,529	15.0%	18	8,651	85.0%	30	10,180	32	9,077	11,283
<b>Subtotal Non-invasive</b>	<b>187,340</b>	<b>15.4%</b>		<b>1,027,386</b>	<b>84.6%</b>		<b>1,214,726</b>		<b>1,092,377</b>	<b>1,337,075</b>
<b>Total all procedures</b>	<b>252,284</b>	<b>16.1%</b>		<b>1,312,481</b>	<b>83.9%</b>		<b>1,564,765</b>		<b>1,408,268</b>	<b>1,721,407</b>

<sup>1</sup>Estimated statistics were derived by weighting sample statistics up to the entire population.

<sup>2</sup>Row percents were calculated by dividing the number of males or females treated for a procedure by the total number of males and females treated for the procedure.

<sup>3</sup>Insufficient sample size to report reliable statistics.

**Number of Procedures**

**Table 3.** 2008 Estimated<sup>1</sup> Male and Female Patients Treated by All AACS Member Practices with Column Percent Detail<sup>2</sup>

<i>Invasive</i>	<i>Male Patients</i>			<i>Female Patients</i>			<i>All Patients</i>		
	<i>Number of Patients</i>	<i>Percent of Male Total</i>	<i>N</i>	<i>Number of Patients</i>	<i>Percent of Female Total</i>	<i>N</i>	<i>Number of Patients</i>	<i>Percent of All Patients</i>	<i>N</i>
Abdominoplasty	661	0.3%	31	14,044	1.1%	71	14,704	0.9%	71
Blepharoplasty	10,026	4.0%	81	32,576	2.5%	103	42,602	2.7%	105
Breast augmentation	308	0.1%	6	40,630	3.1%	71	40,937	2.6%	71
Breast lift	---3	---	2	8,207	0.6%	56	8,207	0.5%	56
Breast reduction	---	---	3	4,262	0.3%	51	4,262	0.3%	51
Buttock implants	---	---	2	317	0.0%	13	335	0.0%	14
Buttock lift	---	---	4	2,588	0.2%	27	2,678	0.2%	27
Calf implants	54	0.0%	5	100	0.0%	5	154	0.0%	8
Facelift	3,068	1.2%	60	17,410	1.3%	103	20,478	1.3%	103
Forehead lift	1,611	0.6%	41	7,511	0.6%	74	9,121	0.6%	78
Genioplasty	1,095	0.4%	38	3,475	0.3%	59	4,570	0.3%	64
Gynecomastia	3,285	1.3%	59	579	0.0%	9	3,864	0.2%	68
Hair transplant/restoration	10,723	4.3%	22	2,344	0.2%	15	13,067	0.8%	24
Lip implant	534	0.2%	10	9,194	0.7%	49	9,728	0.6%	50
Liposuction	21,392	8.5%	121	91,150	6.9%	146	112,541	7.2%	148
Lower body lift	---	---	3	561	0.0%	15	597	0.0%	16
Malar augmentation	525	0.2%	24	2,353	0.2%	46	2,878	0.2%	49
Otoplasty	851	0.3%	42	1,882	0.1%	56	2,733	0.2%	64
Pectoral implants	63	0.0%	5	---	---	1	81	0.0%	5
Penile enlargement	---	---	2	---	---	0	---	---	2
Rhinoplasty	3,303	1.3%	48	9,158	0.7%	69	12,460	0.8%	70
Sclerotherapy	6,579	2.6%	25	31,825	2.4%	63	38,404	2.5%	64
Thigh lift	---	---	3	914	0.1%	26	995	0.1%	26
Thread lift	579	0.2%	12	1,403	0.1%	20	1,982	0.1%	23
Vaginal rejuvenation	---	---	2	2,597	0.2%	29	2,642	0.2%	31
<b>Subtotal Invasive</b>	<b>64,944</b>	<b>25.7%</b>		<b>285,095</b>	<b>21.7%</b>		<b>350,039</b>	<b>22.4%</b>	
<b>Non-invasive</b>									
Botox®	54,855	21.7%	149	308,839	23.5%	178	363,694	23.2%	178
Chemical peels	18,089	7.2%	67	101,520	7.7%	126	119,609	7.6%	129
Collagen injections	3,194	1.3%	26	18,948	1.4%	56	22,143	1.4%	56
Dermabrasion	1,547	0.6%	31	7,239	0.6%	51	8,786	0.6%	55
Fat injections	3,402	1.3%	49	21,211	1.6%	106	24,613	1.6%	108
Hyaluronic acid (Restylane®/Hylaform®)	21,944	8.7%	90	165,052	12.6%	167	186,996	12.0%	167
Laser hair removal	38,956	15.4%	81	164,799	12.6%	111	203,754	13.0%	112
Laser resurfacing	11,058	4.4%	60	37,354	2.8%	102	48,412	3.1%	103
Microdermabrasion	17,618	7.0%	57	121,807	9.3%	92	139,426	8.9%	93
Radiesse®/Radiance®	9,890	3.9%	70	59,144	4.5%	118	69,034	4.4%	119
Sculptra®	5,257	2.1%	32	12,822	1.0%	47	18,080	1.2%	49
Thermage®	1,529	0.6%	18	8,651	0.7%	30	10,180	0.7%	32
<b>Subtotal Non-invasive</b>	<b>187,340</b>	<b>74.3%</b>		<b>1,027,386</b>	<b>78.3%</b>		<b>1,214,726</b>	<b>77.6%</b>	
<b>Total all procedures</b>	<b>252,284</b>	<b>100.0%</b>		<b>1,312,481</b>	<b>100.0%</b>		<b>1,564,765</b>	<b>100.0%</b>	

<sup>1</sup>Estimated statistics were derived by weighting sample statistics up to the entire population.

<sup>2</sup>Column percents were calculated by dividing the number of males or females treated for a procedure by the total number treated for a procedure among all males or all females.

<sup>3</sup>Insufficient sample size to report reliable statistics.

## Mean Cost of Procedures

**Table 4.** 2008 Cosmetic Surgery Fees per Patient at AACS Member Practices

<i>Invasive</i>	<i>N</i>	<i>Mean</i>	<i>Median</i>	<u>Percentiles</u>		
				<i>25%</i>	<i>75%</i>	<i>90%</i>
Abdominoplasty	54	\$6,876	\$6,550	\$5,000	\$8,000	\$10,000
Blepharoplasty	87	\$3,956	\$4,000	\$3,000	\$4,900	\$5,500
Breast augmentation	56	\$5,126	\$5,000	\$4,225	\$5,950	\$7,000
Breast lift	41	\$5,723	\$5,500	\$4,500	\$6,500	\$8,000
Breast reduction	39	\$6,701	\$6,200	\$4,500	\$7,940	\$10,000
Buttock implants	10	\$5,930	\$6,200	\$5,300	\$7,000	\$8,500
Buttock lift	17	\$5,884	\$5,500	\$4,000	\$8,000	\$9,000
Calf implants	8	\$4,550	\$4,600	\$4,000	\$5,400	\$5,900
Facelift	83	\$7,007	\$6,500	\$5,500	\$8,000	\$10,000
Forehead lift	59	\$4,149	\$3,900	\$3,000	\$5,000	\$6,500
Genioplasty	52	\$2,813	\$2,550	\$2,000	\$3,500	\$4,000
Gynecomastia	48	\$3,800	\$3,975	\$3,000	\$4,500	\$5,000
Hair transplant/restoration	17	\$4,879	\$5,000	\$4,000	\$5,800	\$7,200
Lip implant	34	\$1,807	\$1,550	\$1,100	\$2,500	\$3,500
Liposuction	102	\$4,405	\$4,000	\$3,400	\$5,000	\$6,400
Lower body lift	14	\$8,050	\$7,500	\$6,500	\$9,000	\$12,000
Malar augmentation	40	\$3,261	\$3,000	\$2,000	\$3,900	\$5,000
Otoplasty	46	\$3,597	\$3,500	\$3,000	\$4,500	\$5,000
Pectoral implants	5	\$5,189	\$5,645	\$3,500	\$7,000	\$8,000
Penile enlargement	2	--- <sup>1</sup>	---	---	---	---
Rhinoplasty	53	\$5,289	\$5,200	\$4,400	\$6,000	\$6,500
Sclerotherapy	48	\$504	\$400	\$300	\$500	\$1,000
Thigh lift	22	\$5,702	\$5,000	\$4,050	\$6,500	\$8,000
Thread lift	16	\$2,641	\$2,725	\$1,900	\$3,000	\$4,000
Vaginal rejuvenation	19	\$3,976	\$3,500	\$2,000	\$5,000	\$8,000
<b><i>Non-Invasive</i></b>						
Botox® (less than \$100)	100	\$13	\$12	\$10	\$14	\$17
Botox® (\$100 or more)	41	\$434	\$400	\$275	\$500	\$750
Chemical peels	89	\$672	\$500	\$200	\$800	\$1,600
Collagen injections	39	\$437	\$500	\$350	\$500	\$600
Dermabrasion	33	\$1,778	\$1,000	\$500	\$3,000	\$4,000
Fat injections	73	\$2,339	\$2,000	\$1,250	\$3,000	\$4,000
Hyaluronic acid (Restylane®/Hylaform®)	124	\$589	\$550	\$500	\$628	\$800
Laser hair removal	82	\$263	\$250	\$150	\$350	\$500
Laser resurfacing	75	\$2,669	\$2,500	\$1,000	\$3,750	\$5,000
Microdermabrasion	70	\$164	\$120	\$100	\$200	\$270
Radiesse®/Radiance®	91	\$712	\$700	\$600	\$800	\$1,000
Sculptra®	37	\$1,012	\$1,000	\$800	\$1,000	\$1,800
Thermage®	20	\$2,080	\$2,000	\$1,500	\$3,000	\$3,050

<sup>1</sup>Insufficient sample size to report reliable statistics.

## Age Distribution of Patients

**Table 5.** 2008 Age Distribution of Patients Treated by AACS Members

	Mean Age	13-19 years	20-29 years	30-39 years	40-49 years	50-59 years	60+ years	N
<b>Invasive</b>								
Abdominoplasty	42.6	0.1%	5.6%	31.6%	41.7%	18.5%	2.5%	49
Blepharoplasty	50.9	0.0%	1.0%	10.9%	31.5%	36.1%	20.5%	75
Breast augmentation	35.6	1.7%	29.1%	37.6%	22.5%	6.1%	3.0%	52
Breast lift	41.4	0.0%	8.5%	40.0%	29.0%	19.0%	3.5%	37
Breast reduction	39.0	0.7%	17.3%	38.2%	25.4%	16.5%	1.9%	33
Buttock implants	31.5	0.0%	44.4%	41.3%	14.4%	0.0%	0.0%	8
Buttock lift	40.7	0.0%	15.9%	29.7%	31.6%	22.5%	0.3%	16
Calf implants	30.9	0.0%	58.3%	19.2%	22.5%	0.0%	0.0%	6
Facelift	54.0	0.0%	0.1%	2.9%	20.9%	54.3%	21.8%	76
Forehead lift	52.4	0.0%	0.2%	7.7%	28.4%	40.7%	23.0%	56
Genioplasty	36.5	2.1%	32.4%	27.1%	22.3%	14.3%	1.8%	46
Gynecomastia	35.9	6.3%	25.5%	28.3%	28.9%	10.8%	0.2%	44
Hair transplant/restoration	44.0	0.1%	5.9%	28.9%	38.1%	18.4%	8.6%	17
Lip implant	38.8	0.4%	28.9%	22.3%	27.3%	18.2%	3.0%	29
Liposuction	41.4	0.6%	12.5%	32.7%	31.2%	17.5%	5.6%	103
Lower body lift	42.4	0.5%	13.6%	28.6%	24.5%	29.1%	3.6%	11
Malar augmentation	38.6	0.6%	28.7%	24.4%	25.1%	18.2%	2.9%	34
Otoplasty	29.3	27.7%	31.2%	21.9%	10.6%	6.1%	2.5%	44
Pectoral implants	--- <sup>1</sup>	---	---	---	---	---	---	3
Penile enlargement	---	---	---	---	---	---	---	1
Rhinoplasty	33.0	6.0%	37.7%	34.2%	11.9%	8.4%	1.8%	52
Sclerotherapy	43.3	0.4%	7.6%	30.0%	33.3%	22.8%	5.9%	49
Thigh lift	44.3	0.0%	0.6%	36.1%	31.9%	27.6%	3.7%	21
Thread lift	47.2	0.0%	0.4%	20.0%	44.2%	23.1%	12.3%	13
Vaginal rejuvenation	37.7	0.6%	13.4%	48.3%	29.1%	8.6%	0.0%	16
<b>Non-invasive</b>								
Botox® (less than \$100)	44.2	0.0%	7.0%	26.6%	36.2%	22.1%	8.0%	137
Botox® (\$100 or more)	43.9	0.9%	7.1%	27.7%	33.9%	22.3%	8.1%	84
Chemical peels	45.4	0.0%	5.9%	23.6%	35.2%	26.8%	8.6%	35
Collagen injections	43.7	1.3%	11.5%	20.6%	34.8%	24.9%	7.0%	39
Dermabrasion	44.7	0.3%	6.7%	25.8%	33.1%	26.5%	7.6%	70
Fat injections	44.7	0.1%	8.0%	23.4%	35.8%	24.1%	8.7%	116
Hyaluronic acid (Restylane®/Hylaform®)	36.7	3.5%	26.8%	31.1%	24.0%	12.4%	2.1%	82
Laser hair removal	47.1	0.4%	4.7%	16.7%	36.9%	29.0%	12.2%	64
Laser resurfacing	40.9	2.1%	16.9%	27.4%	29.2%	17.4%	7.0%	64
Microdermabrasion	46.8	0.0%	2.2%	22.3%	36.0%	28.7%	10.7%	79
Radiesse®/Radiance®	48.4	0.0%	2.1%	14.0%	41.0%	28.7%	14.2%	29
Sculptra®	45.1	0.8%	6.0%	21.3%	40.8%	21.3%	10.0%	20

<sup>1</sup>Insufficient sample size to report reliable statistics.

## Trend Analysis

**Table 6.** Number of Procedures Performed on MALES from 2005 to 2008

<i>Invasive – Males Only</i>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>Percent Change 2005 to 2008</b>	<b>Percent Change 2007 to 2008</b>
Abdominoplasty	346	2,064	556	661	91%	19%
Blepharoplasty	5,950	14,324	8,003	10,026	69%	25%
Breast augmentation	1,898	2,296	154	308	-84%	100%
Breast lift	64	1,073	--- <sup>1</sup>	---	NA	NA
Breast reduction	398	1,538	315	---	NA	NA
Facelift	3,463	7,258	1,798	3,068	-11%	71%
Forehead lift	1,539	2,904	1,273	1,611	5%	27%
Genioplasty	1,757	1,442	1,483	1,095	-38%	-26%
Gynecomastia	3,565	2,529	3,170	3,285	-8%	4%
Hair transplant/restoration	24,276	6,144	14,974	10,723	-56%	-28%
Lip Implant	654	1,743	525	534	-18%	2%
Liposuction	9,580	15,110	14,096	21,392	123%	52%
Malar augmentation	1,552	1,360	599	525	-66%	-12%
Otoplasty	628	1,073	871	851	36%	-2%
Rhinoplasty	3,065	6,110	2,528	3,303	8%	31%
Sclerotherapy	2,629	19,033	9,820	6,579	150%	-33%
Thigh Lift	13	260				
Thread Lift	1,218	1,360	463	579	-52%	25%
<b>Subtotal Invasive</b>	<b>62,595</b>	<b>87,621</b>	<b>60,628</b>	<b>64,540</b>	<b>3%</b>	<b>6%</b>
<b>Non-invasive – Males Only</b>						
Botox®	25,610	36,644	48,993	54,855	114%	12%
Chemical peels	5,655	21,773	12,699	18,089	220%	42%
Collagen injections	2,501	11,385	1,903	3,194	28%	68%
Dermabrasion	2,667	3,772	3,856	1,547	-42%	-60%
Fat injections	2,706	5,037	4,456	3,402	26%	-24%
Hyaluronic Acid (Restylane®/Hylaform®)	8,079	21,062	28,174	21,944	172%	-22%
Laser hair removal	19,608	38,851	33,328	38,956	99%	17%
Laser resurfacing	1,988	8,836	7,978	11,058	456%	39%
Microdermabrasion	15,633	23,174	37,011	17,618	13%	-52%
<b>Subtotal Non-invasive</b>	<b>84,447</b>	<b>170,534</b>	<b>178,398</b>	<b>170,663</b>	<b>102%</b>	<b>-4%</b>
<b>Total All Procedures – Males Only</b>	<b>147,042</b>	<b>258,155</b>	<b>239,026</b>	<b>235,203</b>	<b>60%</b>	<b>-2%</b>

<sup>1</sup>Insufficient sample size to report reliable statistics.

**Table 7.** Number of Procedures Performed on FEMALES from 2005 to 2008

<i>Invasive –Females Only</i>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>Percent Change 2005 to 2008</b>	<b>Percent Change 2007 to 2008</b>
Abdominoplasty	5,104	10,183	11,482	14,044	175%	22%
Blepharoplasty	20,121	27,370	28,860	32,576	62%	13%
Breast augmentation	23,378	34,252	26,956	40,630	74%	51%
Breast lift	4,642	8,754	6,847	8,207	77%	20%
Breast reduction	2,885	4,907	4,857	4,262	48%	-12%
Facelift	14,491	15,014	12,149	17,410	20%	43%
Forehead lift	8,066	6,704	7,249	7,511	-7%	4%
Genioplasty	2,526	2,542	3,819	3,475	38%	-9%
Gynecomastia	90	--- <sup>1</sup>	587	579	543%	-1%
Hair transplant/restoration	7,669	2,324	3,665	2,344	-69%	-36%
Lip Implant	7,246	6,171	8,856	9,194	27%	4%
Liposuction	40,345	52,273	54,660	91,150	126%	67%
Malar augmentation	2,860	4,401	2,663	2,353	-18%	-12%
Otoplasty	1,039	1,005	1,780	1,882	81%	6%
Rhinoplasty	7,707	6,362	7,638	9,158	19%	20%
Sclerotherapy	18,967	55,472	38,179	31,825	68%	-17%
Thigh Lift	308	608	1,298	914	197%	-30%
Thread Lift	5,078	4,182	2,904	1,403	-72%	-52%
<b>Subtotal Invasive</b>	<b>172,522</b>	<b>242,524</b>	<b>224,449</b>	<b>278,917</b>	<b>62%</b>	<b>24%</b>
<b>Non-invasive – Females Only</b>						
Botox®	143,630	228,932	218,301	308,839	115%	41%
Chemical peels	40,627	93,100	60,383	101,520	150%	68%
Collagen injections	14,748	22,443	11,723	18,948	28%	62%
Dermabrasion	5,771	23,529	9,208	7,239	25%	-21%
Fat injections	13,119	24,493	17,866	21,211	62%	19%
Hyaluronic Acid (Restylane®/Hylaform®)	79,689	107,150	119,047	165,052	107%	39%
Laser hair removal	77,086	128,384	145,626	164,799	114%	13%
Laser resurfacing	11,849	23,611	26,919	37,354	215%	39%
Microdermabrasion	74,572	75,092	119,226	121,807	63%	2%
<b>Subtotal Non-invasive</b>	<b>461,091</b>	<b>726,734</b>	<b>728,299</b>	<b>946,769</b>	<b>105%</b>	<b>30%</b>
<b>Total All Procedures –Females Only</b>	<b>633,613</b>	<b>969,258</b>	<b>952,748</b>	<b>1,225,686</b>	<b>93%</b>	<b>29%</b>

<sup>1</sup>Insufficient sample size to report reliable statistics.

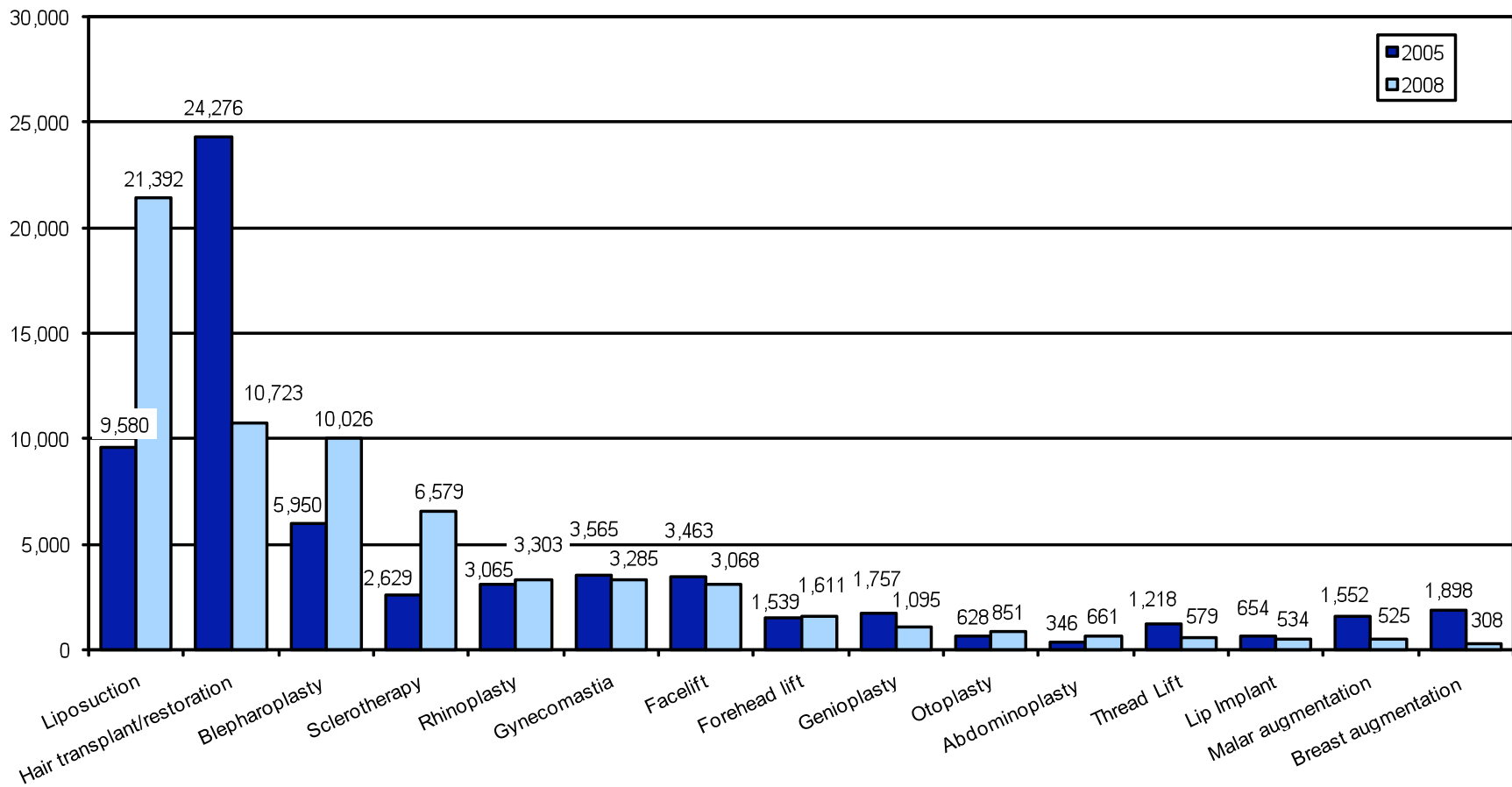
**Table 8.** Number of Procedures Performed on ALL PATIENTS from 2005 to 2008

<i>Invasive – All Patients</i>	<i>2005</i>	<i>2006</i>	<i>2007</i>	<i>2008</i>	<i>Percent Change 2005 to 2008</i>	<i>Percent Change 2007 to 2008</i>
Abdominoplasty	5,450	12,247	12,038	14,704	170%	22%
Blepharoplasty	26,071	41,694	36,862	42,602	63%	16%
Breast augmentation	25,276	36,548	27,111	40,937	62%	51%
Breast lift	4,706	9,827	6,866	8,207	74%	20%
Breast reduction	3,283	6,445	5,172	4,262	30%	-18%
Facelift	17,954	22,272	13,948	20,478	14%	47%
Forehead lift	9,605	9,608	8,522	9,121	-5%	7%
Genioplasty	4,283	3,984	5,302	4,570	7%	-14%
Gynecomastia	3,655	2,959	3,757	3,864	6%	3%
Hair transplant/restoration	31,945	8,468	18,638	13,067	-59%	-30%
Lip Implant	7,900	7,914	9,381	9,728	23%	4%
Liposuction	49,924	67,383	68,756	112,541	125%	64%
Malar augmentation	4,411	5,761	3,263	2,878	-35%	-12%
Otoplasty	1,667	2,078	2,651	2,733	64%	3%
Rhinoplasty	10,772	12,472	10,166	12,460	16%	23%
Sclerotherapy	21,569	74,505	47,998	38,404	78%	-20%
Thigh Lift	321	868	1,310	995	210%	-24%
Thread Lift	6,297	5,542	3,368	1,982	-69%	-41%
<b>Subtotal Invasive</b>	<b>235,089</b>	<b>330,575</b>	<b>285,109</b>	<b>343,533</b>	<b>46%</b>	<b>20%</b>
<b>Non-invasive – All Patients</b>						
Botox®	169,239	265,576	267,294	363,694	115%	36%
Chemical peels	46,282	114,873	73,082	119,609	158%	64%
Collagen injections	17,248	33,828	13,626	22,143	28%	63%
Dermabrasion	8,438	27,301	13,064	8,786	4%	-33%
Fat injections	15,825	29,530	22,321	24,613	56%	10%
Hyaluronic Acid (Restylane®/Hylaform®)	87,768	128,212	147,221	186,996	113%	27%
Laser hair removal	96,694	167,235	178,954	203,754	111%	14%
Laser resurfacing	13,837	32,447	34,897	48,412	250%	39%
Microdermabrasion	90,205	98,266	156,237	139,426	55%	-11%
<b>Subtotal Non-invasive</b>	<b>545,536</b>	<b>897,268</b>	<b>906,696</b>	<b>1,117,433</b>	<b>105%</b>	<b>23%</b>
<b>Total All Procedures – All Patients</b>	<b>780,625</b>	<b>1,227,843</b>	<b>1,191,805</b>	<b>1,460,966</b>	<b>87%</b>	<b>23%</b>

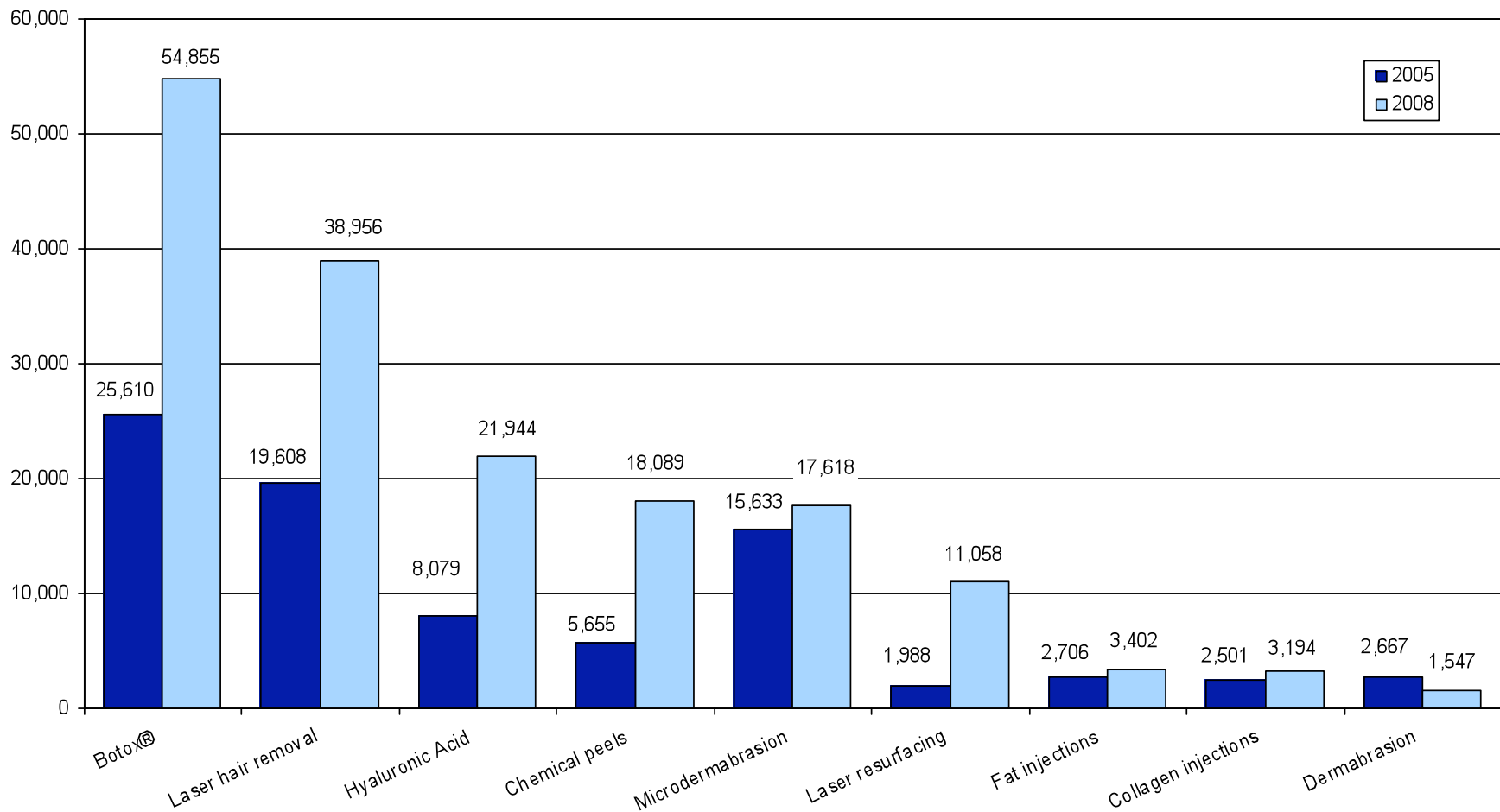
**Table 9.** Number of Procedures Performed on ALL PATIENTS from 2005 to 2008

<i>Invasive – All Patients</i>	<i>Mean Cost</i>			<i>Mean Age</i>		
	<i>2007</i>	<i>2008</i>	<i>Difference (2008 – 2007)</i>	<i>2007</i>	<i>2008</i>	<i>Difference (2008 – 2007)</i>
Abdominoplasty	\$6,037	\$6,876	\$839	41.4	42.7	1.3
Blepharoplasty	\$3,984	\$3,956	-\$28	49.3	50.9	1.6
Breast augmentation	\$5,066	\$5,126	\$60	32.6	35.7	3.1
Breast lift	\$5,745	\$5,723	-\$22	41.4	41.7	0.3
Breast reduction	\$5,959	\$6,701	\$742	39.2	39.4	0.2
Facelift	\$7,241	\$7,007	-\$234	53.5	54.0	0.5
Forehead lift	\$3,779	\$4,149	\$370	50.0	52.4	2.4
Genioplasty	\$2,602	\$2,813	\$211	35.7	36.5	0.8
Gynecomastia	\$3,656	\$3,800	\$144	35.3	36.0	0.7
Hair transplant/restoration	\$5,280	\$4,879	-\$401	41.1	44.0	2.9
Lip Implant	\$1,410	\$1,807	\$397	36.5	38.3	1.8
Liposuction	\$4,243	\$4,405	\$162	40.9	41.5	0.6
Malar augmentation	\$2,960	\$3,261	\$301	40.3	38.6	-1.7
Otoplasty	\$3,413	\$3,597	\$184	27.2	29.2	2.0
Rhinoplasty	\$5,868	\$5,289	-\$579	31.5	33.0	1.5
Sclerotherapy	\$404	\$504	\$100	43.5	43.2	-0.3
Thigh Lift	\$5,326	\$5,702	\$376	41.7	44.5	2.8
Thread Lift	\$2,835	\$2,641	-\$194	47.7	47.2	-0.5
<b><i>Non-invasive – All Patients</i></b>						
Botox®	\$14	\$13	-\$1	42.7	44.3	1.6
Chemical peels	\$709	\$672	-\$37	41.0	43.9	2.9
Collagen injections	\$524	\$437	-\$87	42.2	45.4	3.2
Dermabrasion	\$2,218	\$1,778	-\$440	39.4	43.4	4.0
Fat injections	\$1,895	\$2,339	\$444	43.9	44.7	0.8
Hyaluronic Acid (Restylane®/Hylaform®)	\$577	\$589	\$12	42.3	44.8	2.5
Laser hair removal	\$265	\$263	-\$2	35.8	36.6	0.8
Laser resurfacing	\$2,638	\$2,669	\$31	45.9	47.1	1.2
Microdermabrasion	\$309	\$164	-\$145	37.8	40.9	3.1

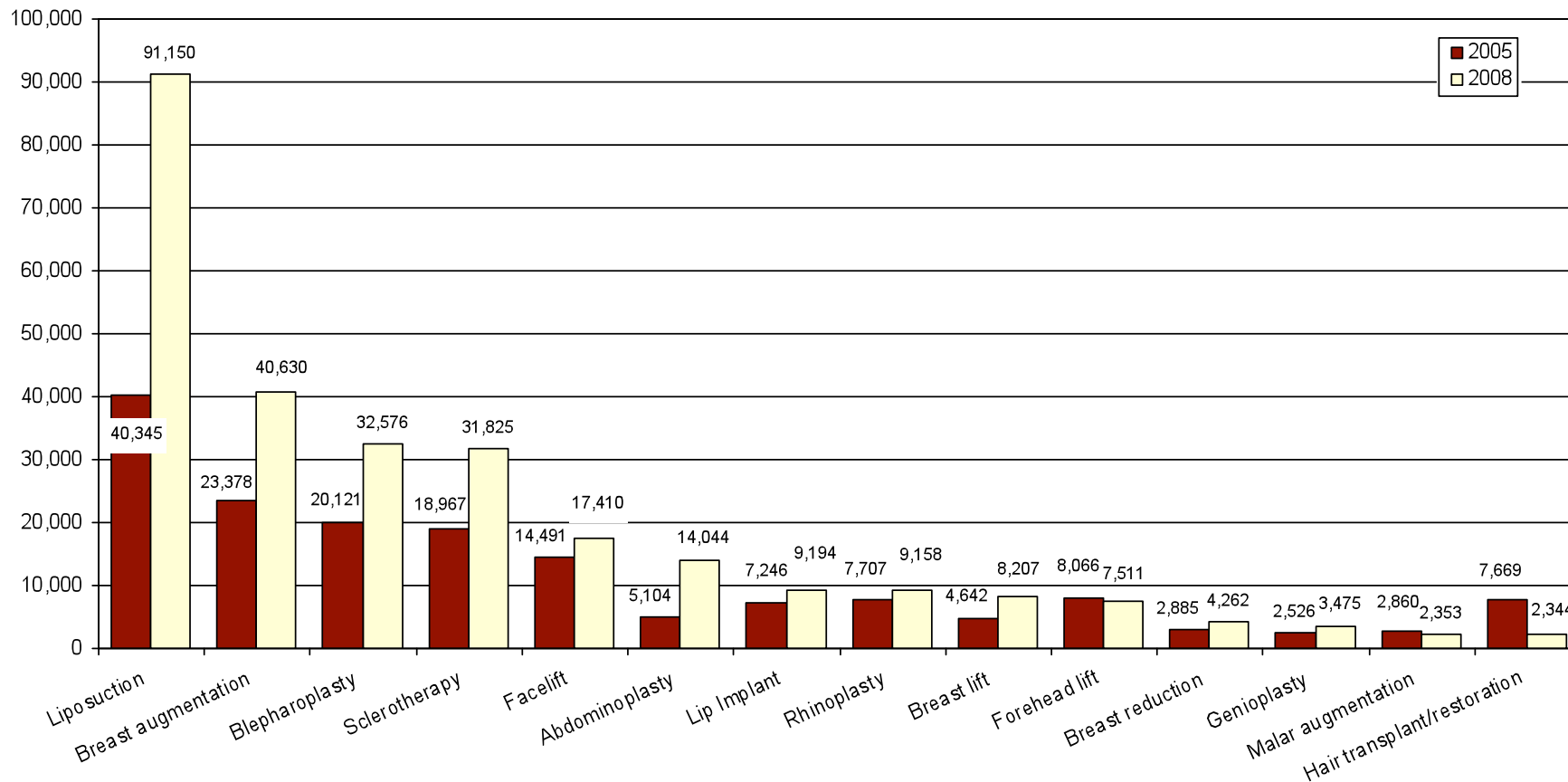
**Figure 3.** Estimated Number of Invasive Procedures Performed by AACS Member Physicians on Males in 2005 and 2008



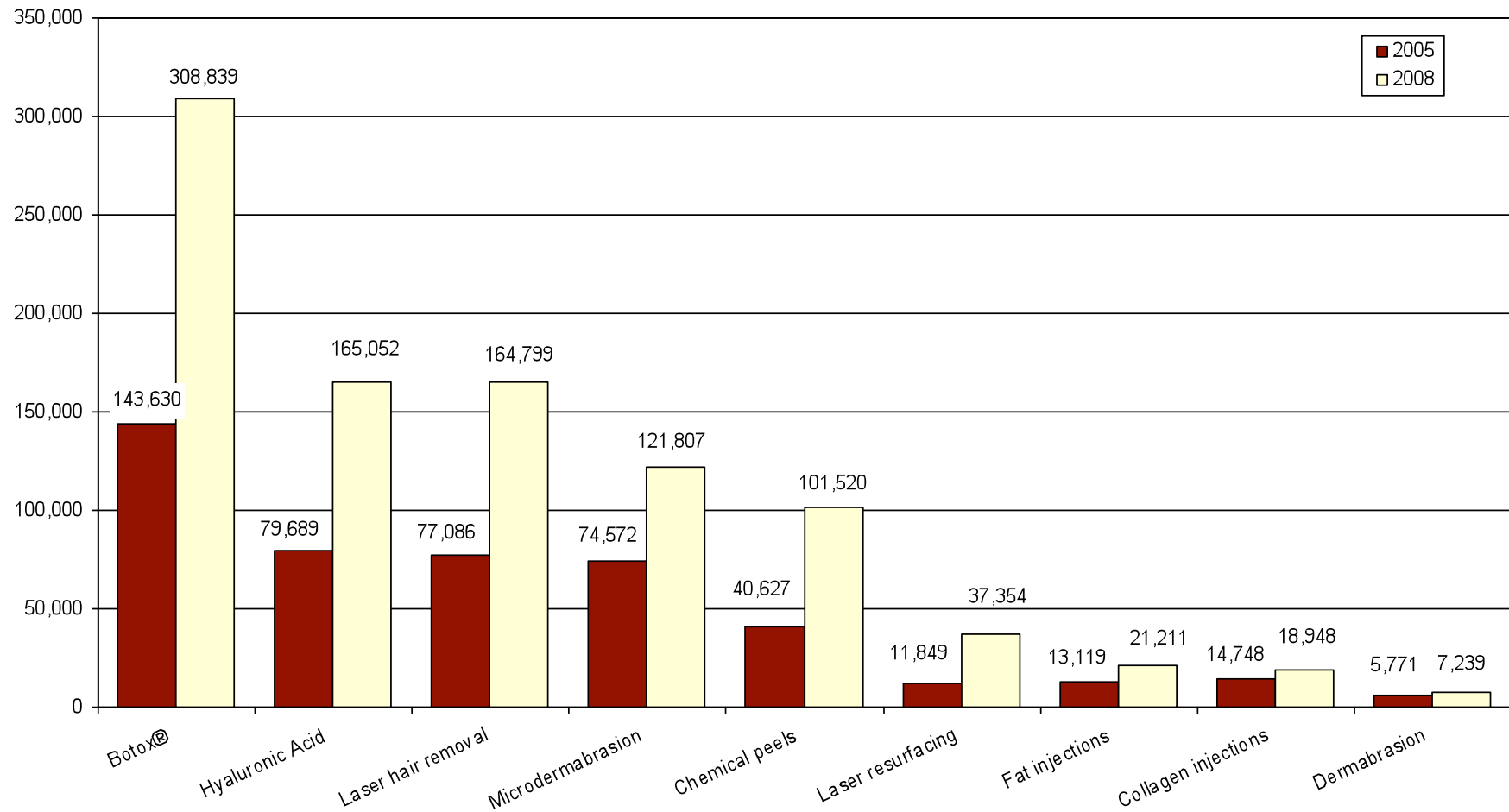
**Figure 4.** Estimated Number of Non-invasive Procedures Performed by AACS Member Physicians on Males in 2005 and 2008



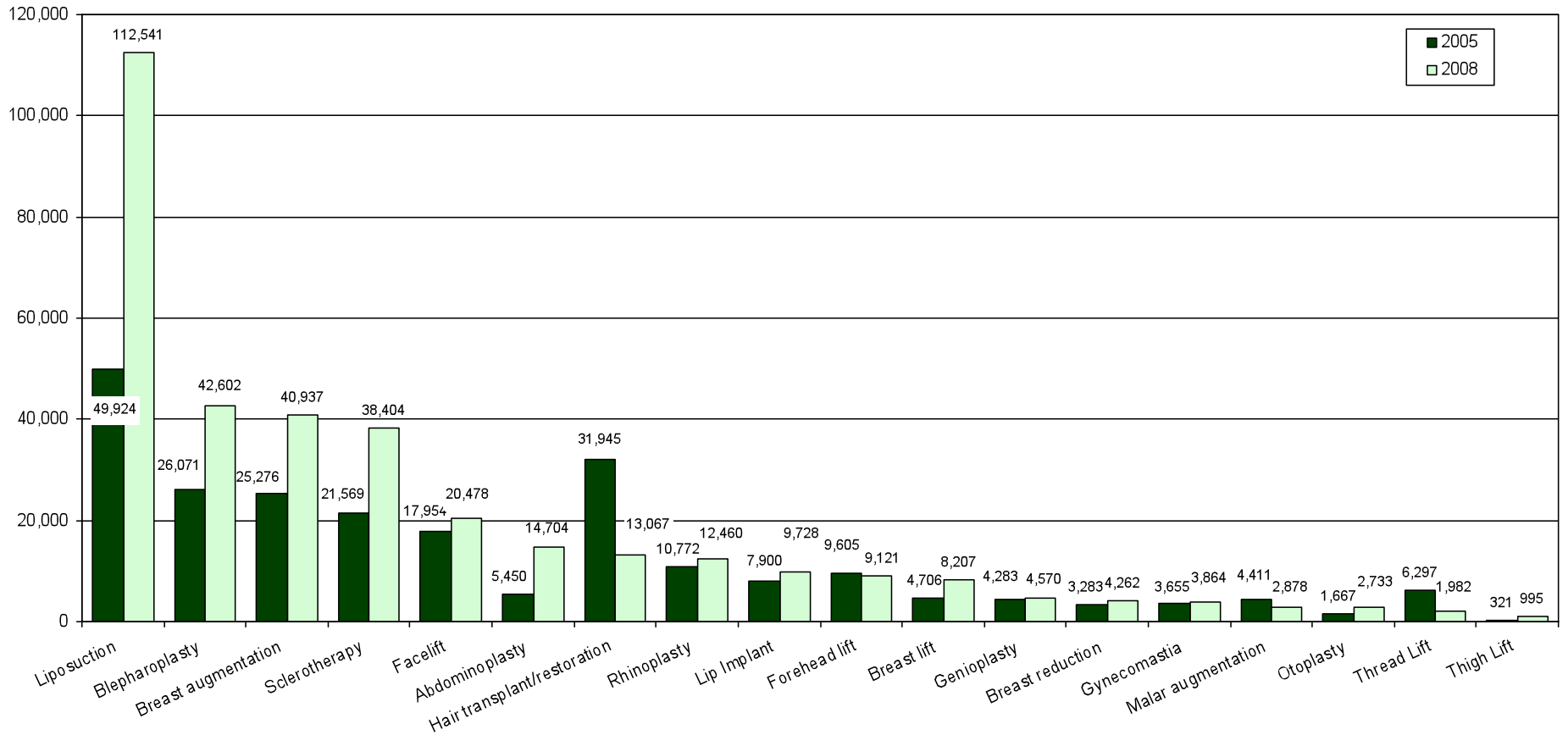
**Figure 5.** Estimated Number of Invasive Procedures Performed by AACS Member Physicians on Females in 2005 and 2008



**Figure 6.** Estimated Number of Non-Invasive Procedures Performed by AACS Member Physicians on Females in 2005 and 2008



**Figure 7.** Estimated Number of Invasive Procedures Performed by AACS Member Physicians on All Patients in 2005 and 2008



**Figure 8.** Estimated Number of Non-invasive Procedures Performed by AACS Member Physicians on All Patients in 2005 and 2008

