

Plastic Surgery Statistics Report



AMERICAN SOCIETY OF
PLASTIC SURGEONS®

2016

**ASPS National Clearinghouse
of Plastic Surgery Procedural Statistics**

ASPS Public Relations

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About the American Society of Plastic Surgeons

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The American Society of Plastic Surgeons®

ASPS®, a non-profit organization, supports members in their efforts to provide the highest quality patient care through education, research and advocacy. It is the only organization with two decades of plastic surgery statistics – 1992-2015. ASPS is the largest organization of board-certified plastic surgeons in the world. With more than 7,000 members, the Society is recognized as a leading authority and information source on cosmetic and reconstructive plastic surgery. ASPS comprises more than 94 percent of all board-certified plastic surgeons in the United States. Founded in 1931, the Society represents physicians certified by The American Board of Plastic Surgery, Inc.® (ABPS®) or The Royal College of Physicians and Surgeons of Canada.

The ASPS mission is to advance quality care to plastic surgery patients by encouraging high standards of training, ethics, physician practice, and research in plastic surgery.

ASPS Member Surgeons are uniquely qualified to perform cosmetic and reconstructive plastic surgery on the face and all areas of the body.

Consumers can visit the ASPS at PlasticSurgery.org to find ASPS Member Surgeons in their area or learn more about cosmetic and reconstructive plastic surgery, like us on [Facebook.com/PlasticSurgeryASPS](https://www.facebook.com/PlasticSurgeryASPS) and follow us at [Twitter.com/ASPS_News](https://twitter.com/ASPS_News).

ASPS Spokespersons Network

The ASPS Spokespersons Network is a valuable plastic surgery resource. It comprises more than 100 plastic surgeons from across the United States and Canada trained and available to assist journalists.

These spokespersons provide expert perspectives on a broad range of plastic surgery topics including procedural details, the patient-physician relationship, emerging trends, teens, and minorities.

They are also knowledgeable about the Society's positions on health care reform, scope of practice and other issues that affect patient care.

To arrange interviews with members of the ASPS Spokespersons Network, contact the ASPS Public Relations Department.

PlasticSurgery.org

The ASPS online newsroom is the most comprehensive site for journalistic research on cosmetic and reconstructive plastic surgery on the Internet. The latest news releases and the online version of the National Clearinghouse of Plastic Surgery Statistics are available.

Full color graphics and statistical graphs can be downloaded or are available by contacting the ASPS Public Relations Department.

Pre- and Postoperative Photos and B-Roll

ASPS has a library of pre- and postoperative images and B-roll available to the media by contacting the ASPS Public Relations Department.

ASPS Member Surgeons have the following qualifications:

- ✓ Are **certified** by The American Board of Plastic Surgery and **trained** specifically in plastic surgery.
- ✓ Have at least **6 years** surgical training, minimum of 3 years plastic surgery training.
- ✓ Operate only in **accredited** medical facilities.
- ✓ Adhere to a strict code of **ethics**.
- ✓ Fulfill continuing education requirements, including **patient safety** techniques.
- ✓ Are **partners** with patients in cosmetic and reconstructive plastic surgery.

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Methodology and Validity

Methodology

Since 1992, the American Society of Plastic Surgeons® (ASPS®) has been the source of cosmetic and reconstructive plastic surgery statistical trends in the U.S., and this series represents two decades of procedural data. ASPS has partnered with Data Harbor Solutions, a health care industry data management and technology development company, to ensure objectivity in the gathering, analysis and publication of its procedural statistics.

Since 2000, the report represents a universal and comprehensive estimate of cosmetic and reconstructive plastic surgery procedures performed by ASPS Member Surgeons as well as other physicians most likely to perform plastic surgery procedures. These physicians are all certified by American Board of Medical Specialties (ABMS) recognized boards.

ABMS is the umbrella organization for the 24 approved medical specialty boards in the United States. Established in 1933, ABMS serves to provide information concerning issues involving specialization and certification in medicine. The American Board of Plastic Surgery® (ABPS®) represents physicians who are certified by ABPS®, the only ABMS member board that certifies surgeons in plastic surgery of the face and entire body.

ASPS offers the most comprehensive, reliable statistics on cosmetic and reconstructive plastic surgery procedures performed in the United States. The annual questionnaire was distributed to 24,600 ABMS board-certified physicians (An online and faxed version of the questionnaire were made available. A total of 513 active physicians returned questionnaires. Overall, 703 active physicians were included in the final sample). This data is combined with the first online national database for plastic surgery procedures Tracking Operations and Outcomes for Plastic SurgeonsSM (TOPSSM).

All responses are aggregated and extrapolated to the entire population of more than 24,500 board certified physicians most likely to perform cosmetic and reconstructive plastic surgery procedures, resulting in the most accurate census available.

Validity

Results of the survey are based on a 95 percent confidence level with a ± 4.28 percent margin of error.

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2016 Quick Facts

Cosmetic and Reconstructive Plastic Surgery Trends

Percentage change 2016 vs. 2015

- 17.1 million cosmetic procedures** ↑ 3%
- **1.7 million cosmetic surgical procedures** ↑ 4%
- **15.4 million cosmetic minimally-invasive procedures** ↑ 3%
- 5.8 million reconstructive procedures** ↑ no change

2016 Top 5 Cosmetic Surgical Procedures

| | 2016 vs. 2015 |
|-------------------------------|---------------|
| Breast augmentation (290,000) | ↑ 4% |
| Liposuction (235,000) | ↑ 6% |
| Nose Reshaping (223,000) | ↑ 2% |
| Eyelid surgery (209,000) | ↑ 2% |
| Face Lift (131,000) | ↑ 4% |

Breast augmentation continues to be the top cosmetic surgical procedure and has been since 2006. Silicone implants were used in 84%, and saline implants in 16%, of all breast augmentations in 2016.

Cosmetic surgical procedures, not among the Top 5, with notable gains in 2016 include:

- Buttock augmentation w/ fat grafting – up 26%
- Lower body lift – up 34%
- Labiaplasty – up 39%

2016 Top 5 Cosmetic Minimally-Invasive Procedures

| | 2016 vs. 2015 |
|--------------------------------------|---------------|
| Botulinum toxin type A (7.0 million) | ↑ 4% |
| Soft tissue fillers (2.6 million) | ↑ 2% |
| Chemical peel (1.3 million) | ↑ 4% |
| Laser hair removal (1.1 million) | ↓ 1% |
| Microdermabrasion (775,000) | ↓ 3% |

Facial rejuvenation procedures continue to experience growth, as 2016 marked the highest number of botulinum toxin type A injections to date, with over 7 million injections!

2016 Top 5 Reconstructive Procedures

| | 2016 vs. 2015 |
|---------------------------------|---------------|
| Tumor removal (4.5 million) | no change |
| Laceration repair (253,000) | no change |
| Maxillofacial surgery (202,000) | ↑ 1% |
| Scar revision (181,000) | ↑ 1% |
| Hand surgery (135,000) | ↑ 4% |

Tumor removal is overwhelming the top reconstructive procedure performed every year with more than 4.5 million procedures in 2016!

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2016 Quick Facts

Cosmetic Plastic Surgery Demographic Trends

Age

13-19 year olds 2016 vs. 2015

Make up the least number of cosmetic procedures – only 1% of the total. Some of the most common procedures for teens were: nose reshaping, male breast reduction, ear surgery, laser hair removal and laser skin resurfacing.

| | |
|-----------------------------------|------|
| 229,000 total cosmetic procedures | ↑ 1% |
| 66,000 surgical | ↑ 3% |
| 163,000 minimally-invasive | ↑ 1% |

20-29 year olds 2016 vs. 2015

| | |
|-----------------------------------|------|
| 829,000 total cosmetic procedures | ↑ 2% |
| 256,000 surgical | ↑ 3% |
| 572,000 minimally-invasive | ↑ 1% |

30-39 year olds 2016 vs. 2015

| | |
|---------------------------------------|------|
| 2.8 million total cosmetic procedures | ↑ 4% |
| 380,000 surgical | ↑ 4% |
| 2.4 million minimally-invasive | ↑ 3% |

40-54 year olds 2016 vs. 2015

Make up the majority of cosmetic procedures – 49% of the total.

| | |
|---------------------------------------|------|
| 7.6 million total cosmetic procedures | ↑ 3% |
| 561,000 surgical | ↑ 3% |
| 7.0 million minimally-invasive | ↑ 3% |

55 and over 2016 vs. 2015

| | |
|---------------------------------------|------|
| 4.1 million total cosmetic procedures | ↑ 3% |
| 387,000 surgical | ↑ 4% |
| 3.7 million minimally-invasive | ↑ 3% |

Gender

Female 2016 vs. 2015

| | |
|--|------|
| 92% of all cosmetic procedures | |
| 14.2 million total cosmetic procedures | ↑ 1% |
| • 1.4 million surgical | ↑ 4% |
| • 12.8 million minimally-invasive | ↑ 3% |

Male 2016 vs. 2015

| | |
|---------------------------------------|------|
| 8% of all cosmetic procedures | |
| 1.3 million total cosmetic procedures | ↑ 3% |
| • 214,000 surgical | ↑ 3% |
| • 1.1 million minimally-invasive | ↑ 3% |

Ethnic

2016 vs. 2015

| | |
|---------------------------------|-----------|
| Caucasians (11.3 million) | ↑ 4% |
| Hispanics (1.6 million) | ↓ 2% |
| African Americans (1.3 million) | no change |
| Asian Americans (1.1 million) | ↑ 6% |

Did you know...

- \$16.4 billion was spent on cosmetic procedures in the U.S.
- Office-based cosmetic procedures are up 3%
- Region with the most cosmetic procedures performed in the U.S. is Mountain/Pacific – 5 million procedures

2016 Cosmetic Plastic Surgery Statistics

Cosmetic Procedure Trends

Top 5 procedures appear in bold.

| COSMETIC SURGICAL PROCEDURES | 2016 | 2015 | 2000 | % CHANGE 2016 vs. 2015 | % CHANGE 2016 vs. 2000 |
|--|------------------|------------------|------------------|---------------------------|---------------------------|
| Breast augmentation (Augmentation mammoplasty)** | 290,467 | 279,143 | 212,500 | 4% | 37% |
| Breast implant removals (Augmentation patients only) | 28,467 | 24,661 | 40,787 | 15% | -30% |
| Breast lift (Mastopexy) | 101,264 | 99,614 | 52,836 | 2% | 92% |
| Breast reduction (Aesthetic patients only)**** | 39,148 | 40,650 | * | -4% | * |
| Breast reduction in men (Gynecomastia) | 27,760 | 27,456 | 20,351 | 1% | 36% |
| Buttock augmentation with fat grafting**** | 18,489 | 14,705 | * | 26% | * |
| Buttock implants**** | 2,999 | 2,540 | * | 18% | * |
| Buttock lift | 4,251 | 4,767 | 1,356 | -11% | 213% |
| Calf augmentation**** | 419 | 514 | * | -18% | * |
| Cheek implant (Malar augmentation) | 13,197 | 12,668 | 10,427 | 4% | 27% |
| Chin augmentation (Mentoplasty) | 16,688 | 17,451 | 26,924 | -4% | -38% |
| Dermabrasion | 88,182 | 87,216 | 42,218 | 1% | 109% |
| Ear surgery (Otoplasty) | 23,709 | 22,714 | 36,295 | 4% | -35% |
| Eyelid surgery (Blepharoplasty) | 209,020 | 203,934 | 327,514 | 2% | -36% |
| Facelift (Rhytidectomy) | 131,106 | 125,711 | 133,856 | 4% | -2% |
| Full Facelift | 97,110 | 96,727 | * | 0% | * |
| Mini Facelift | 33,996 | 28,984 | * | 17% | * |
| Forehead lift | 43,038 | 40,450 | 120,971 | 6% | -64% |
| Hair transplantation | 16,784 | 15,610 | 44,694 | 8% | -62% |
| Labiaplasty **** | 12,666 | 9,138 | * | 39% | * |
| Lip augmentation (other than injectable materials) | 28,430 | 27,449 | 18,589 | 4% | 53% |
| Lip reduction**** | 3,547 | 927 | * | 283% | * |
| Liposuction | 235,237 | 222,051 | 354,015 | 6% | -34% |
| Lower body lift | 11,299 | 8,431 | 207 | 34% | 5358% |
| Neck lift | 55,227 | 54,281 | * | 2% | * |
| Nose reshaping (Rhinoplasty) | 223,018 | 217,979 | 389,155 | 2% | -43% |
| Pectoral implants**** | 1,153 | 926 | * | 25% | * |
| Thigh Lift | 9,929 | 9,192 | 5,303 | 8% | 87% |
| Tummy tuck (Abdominoplasty) | 127,633 | 127,967 | 62,713 | 0% | 104% |
| Upper arm lift | 17,860 | 17,099 | 338 | 4% | 5184% |
| TOTAL COSMETIC SURGICAL PROCEDURES^**** | 1,780,987 | 1,715,244 | 1,901,049 | 4% | -6% |

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**84% of total 2016 breast implants were silicone; 16% were saline.

***Botulinum Toxin Type A numbers are of anatomic sites injected.

****Counts of procedures performed by ASPS member surgeons only.

*****The number of procedures in 2015 has been updated to include new procedures.

†First year procedure is being reported.

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2016 Cosmetic Plastic Surgery Statistics

Cosmetic Procedure Trends

| COSMETIC MINIMALLY-INVASIVE PROCEDURES | 2016 | 2015 | 2000 | % CHANGE 2016 vs. 2015 | % CHANGE 2016 vs. 2000 |
|--|-------------------|-------------------|------------------|---------------------------|---------------------------|
| Botulinum Toxin Type A (Botox®, Dysport®, Xeomin®)**** | 7,056,255 | 6,757,198 | 786,911 | 4% | 797% |
| Cellulite treatment (Velosmooth®, Endermology) | 30,995 | 30,810 | 23,952 | 1% | 29% |
| Chemical peel | 1,360,850 | 1,310,252 | 1,149,457 | 4% | 18% |
| Injection lipolysis (e.g., Kybella®)† | 55,660 | 47,333 | * | 18% | * |
| Intense Pulsed Light (IPL) treatment | 656,781 | 646,592 | * | 2% | * |
| Laser hair removal | 1,109,385 | 1,116,708 | 735,996 | -1% | 51% |
| Laser skin resurfacing | 586,662 | 569,458 | 170,951 | 3% | 243% |
| Ablative | 166,194 | 159,795 | * | 4% | * |
| Non-ablative (Fraxel®, etc.) | 420,468 | 409,663 | * | 3% | * |
| Laser treatment of leg veins | 217,179 | 207,862 | 245,424 | 4% | -12% |
| Microdermabrasion | 775,014 | 800,340 | 868,315 | -3% | -11% |
| Non-invasive fat reduction (e.g., Coolsculpting®, Liposonix®)† | 333,082 | 318,144 | * | 5% | * |
| Non-surgical skin tightening (e.g., Pelleve®, Thermage®, Ulthera®)† | 306,089 | 291,821 | * | 5% | * |
| Sclerotherapy | 323,009 | 322,280 | 866,555 | 0% | -63% |
| Soft Tissue Fillers | 2,600,868 | 2,550,987 | 652,885 | 2% | 298% |
| Acellular Dermal Matrix***** | 7,809 | 9,544 | * | -18% | * |
| Calcium hydroxylapatite (Radiesse®) | 242,563 | 256,256 | * | -5% | * |
| Collagen | 14,126 | 14,353 | 587,615 | -2% | -98% |
| Porcine/bovine-based (Evolence®, Zyderm®, Zypplast®) | 14,126 | 14,353 | * | -2% | * |
| Fat | 79,208 | 70,283 | 65,270 | 13% | 21% |
| Hyaluronic acid (Juvederm Ultra®, Juvederm Ultra Plus®, Perlane®, Restylane®, Belotero®) | 2,012,672 | 1,951,692 | * | 3% | * |
| Platelet-Rich Plasma (PRP)† | 102,101 | 100,719 | * | 1% | * |
| Polylactic acid (Sculptra®) | 125,044 | 130,089 | * | -4% | * |
| Polymethyl-methacrylate microspheres (Artefill®) | 17,345 | 18,051 | * | -4% | * |
| TOTAL COSMETIC MINIMALLY-INVASIVE PROCEDURES^**** | 15,411,829 | 14,969,785 | 5,500,446 | 3% | 180% |

| | | | | | |
|--|-------------------|-------------------|------------------|-----------|-------------|
| TOTAL COSMETIC PROCEDURES^***** | 17,192,816 | 16,685,029 | 7,401,495 | 3% | 132% |
|--|-------------------|-------------------|------------------|-----------|-------------|

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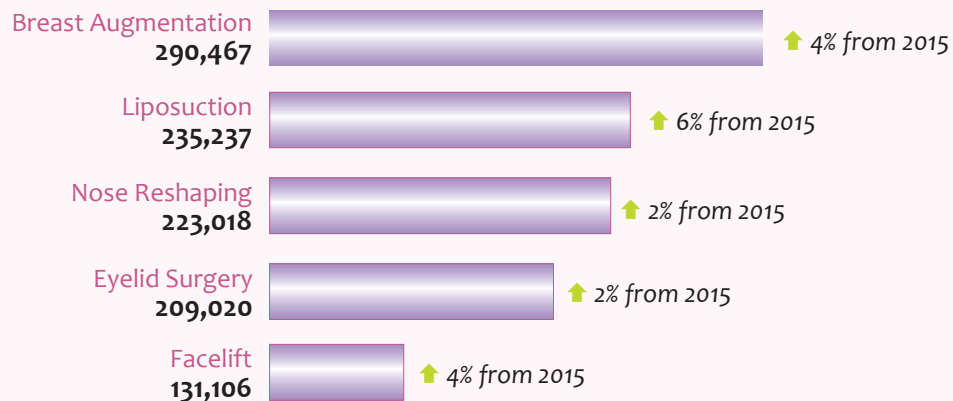
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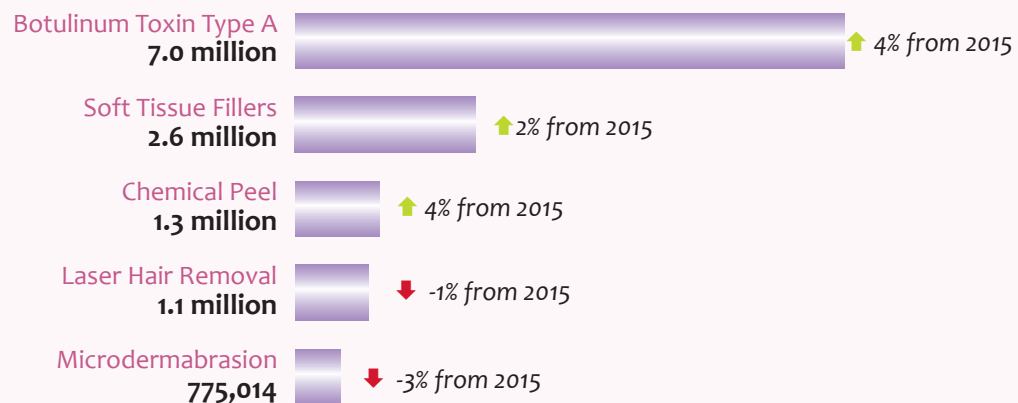
2016 Top Five Cosmetic Plastic Surgery Procedures

Cosmetic Procedure Charts

2016 TOP FIVE COSMETIC SURGICAL PROCEDURES



2016 TOP FIVE COSMETIC MINIMALLY-INVASIVE PROCEDURES



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****Counts of procedures performed by ASPS member surgeons only.

^AIn 2000 figure included all animal bites.

^{AA}In 2000 figure included facial laceration repair.

^{AAA}In 2016 and 2015 figure includes facial laceration repair.

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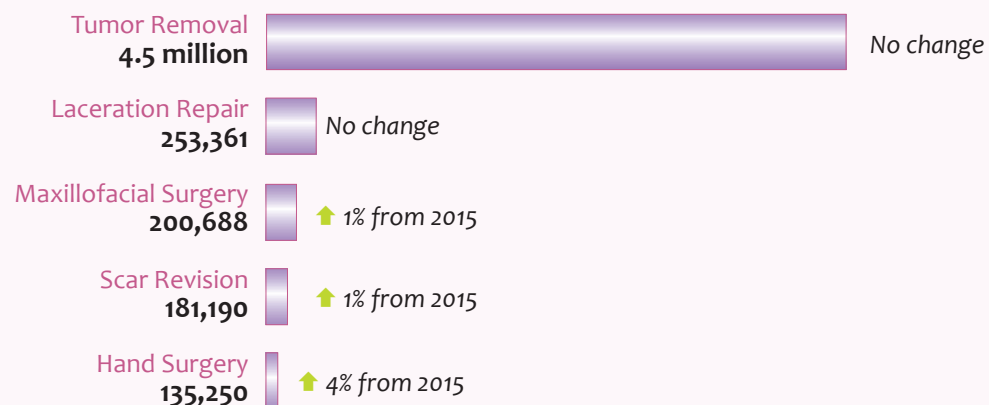
2016 Reconstructive Plastic Surgery Statistics

Reconstructive Procedure Trends

Top 5 procedures appear in bold.

| RECONSTRUCTIVE PROCEDURES | 2016 | 2015 | 2000 | % CHANGE 2016 vs. 2015 | % CHANGE 2016 vs. 2000 |
|--|------------------|------------------|----------------|---------------------------|---------------------------|
| Dog bite repair ^A | 28,991 | 28,079 | 43,089 | 3% | -33% |
| Birth defect (congenital deformities) | 29,959 | 30,383 | 40,076 | -1% | -25% |
| Breast implant removals (Reconstructive patients only) ^{****} | 18,778 | 17,892 | 16,287 | 5% | 15% |
| Breast reconstruction ^{****} | 109,256 | 106,338 | 78,832 | 3% | 39% |
| Breast reduction (reconstructive patients only) | 61,821 | 60,175 | * | 3% | * |
| Burn care | 16,183 | 15,606 | * | 4% | * |
| Hand surgery (excluding microsurgical) | 135,250 | 130,280 | * | 4% | * |
| Head and neck reconstruction ^{****} | 28,496 | 27,987 | * | 2% | * |
| Hernia repair ^{****} | 9,938 | 10,156 | * | -2% | * |
| Laceration repair (other than facial) ^{AA} | 253,361 | 253,441 | 358,666 | 0% | -29% |
| Lower extremity reconstruction (including microsurgical) ^{****} | 16,444 | 16,801 | * | -2% | * |
| Maxillofacial surgery ^{AAA} | 202,688 | 200,550 | 79,331 | 1% | 155% |
| Pelvic floor reconstruction ^{****} | 1,421 | 1,348 | * | 5% | * |
| Scar revision | 181,190 | 179,066 | 221,858 | 1% | -18% |
| Tumor removal (including skin cancer) | 4,473,238 | 4,472,153 | * | 0% | * |
| Other reconstructive procedures | 253,993 | 264,743 | 376,270 | -4% | -32% |
| TOTAL RECONSTRUCTIVE PROCEDURES | 5,821,007 | 5,814,998 | * | 1% | * |

2016 TOP FIVE RECONSTRUCTIVE PROCEDURES



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16% were saline.

***Botulinum Toxin Type A numbers are of anatomic
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2016 Cosmetic Surgery Gender Distribution

Female

Top 5 procedures appear in bold

| COSMETIC SURGICAL PROCEDURES | 2016 TOTAL PROCEDURES | 2016 TOTAL FEMALE | % OF TOTAL PROCEDURES | % CHANGE 2016 vs. 2015 | % CHANGE 2016 vs. 2000 |
|--|--------------------------|----------------------|--------------------------|---------------------------|---------------------------|
| Breast augmentation (Augmentation mammoplasty)** | 290,467 | 290,467 | 100% | 4% | 37% |
| Breast implant removals (Augmentation patients only) | 28,467 | 28,467 | 100% | 15% | -30% |
| Breast lift (Mastopexy) | 101,264 | 101,264 | 100% | 2% | 92% |
| Breast reduction in men (Gynecomastia) | 27,760 | 0 | 0% | - | - |
| Buttock implants | 2,999 | 2,601 | 87% | 17% | * |
| Buttock lift | 4,251 | 3,931 | 92% | -11% | 201% |
| Calf augmentation | 419 | 182 | 43% | -20% | * |
| Cheek implant (Malar augmentation) | 13,197 | 9,595 | 73% | 3% | 10% |
| Chin augmentation (Mentoplasty) | 16,688 | 7,449 | 45% | -7% | -58% |
| Dermabrasion | 88,182 | 76,126 | 86% | 1% | 173% |
| Ear surgery (Otoplasty) | 23,709 | 13,565 | 57% | 4% | -29% |
| Eyelid surgery (Blepharoplasty) | 209,020 | 178,062 | 85% | 2% | -34% |
| Facelift (Rhytidectomy) | 131,106 | 119,004 | 91% | 5% | 0% |
| Forehead lift | 43,038 | 38,076 | 88% | 6% | -65% |
| Hair transplantation | 16,784 | 4,746 | 28% | 12% | 17% |
| Lip augmentation (other than injectable materials) | 28,430 | 27,268 | 96% | 4% | 49% |
| Liposuction | 235,237 | 208,329 | 89% | 6% | -31% |
| Lower body lift | 11,299 | 10,341 | 92% | 35% | * |
| Nose reshaping (Rhinoplasty) | 223,018 | 167,994 | 75% | 2% | -30% |
| Pectoral implants | 1,153 | 0 | 0% | - | - |
| Thigh Lift | 9,929 | 9,451 | 95% | 8% | 86% |
| Tummy tuck (Abdominoplasty) | 127,633 | 122,731 | 96% | 0% | 103% |
| Upper arm lift | 17,860 | 17,490 | 98% | 4% | 5075% |
| TOTAL COSMETIC SURGICAL PROCEDURES | 1,651,910 | 1,437,139 | 87% | 4% | -5% |

| COSMETIC MINIMALLY-INVASIVE PROCEDURES | 2016 TOTAL PROCEDURES | 2016 TOTAL FEMALE | % OF TOTAL PROCEDURES | % CHANGE 2016 vs. 2015 | % CHANGE 2016 vs. 2000 |
|--|--------------------------|----------------------|--------------------------|---------------------------|---------------------------|
| Botulinum toxin type A (Botox®, Dysport®)*** | 7,056,255 | 6,608,747 | 94% | 4% | 854% |
| Cellulite treatment (e.g., Velosmooth®, Endermology) | 30,995 | 26,816 | 87% | 1% | 12% |
| Chemical peel | 1,360,850 | 1,256,744 | 92% | 4% | 33% |
| Laser hair removal | 1,109,385 | 915,370 | 83% | -1% | 52% |
| Laser skin resurfacing | 586,662 | 512,784 | 87% | 3% | 243% |
| Laser treatment of leg veins | 217,179 | 188,055 | 87% | 4% | -16% |
| Microdermabrasion | 775,014 | 631,223 | 81% | -3% | -19% |
| Sclerotherapy | 323,009 | 318,687 | 99% | 0% | -62% |
| Soft tissue fillers | 2,473,613 | 2,373,715 | 96% | 2% | 294% |
| Calcium hydroxylapatite (e.g., Radiesse®) | 242,563 | 226,791 | 93% | -5% | * |
| Collagen | 14,126 | 13,408 | 95% | -2% | -98% |
| Fat | 79,208 | 74,355 | 94% | 13% | 21% |
| Hyaluronic acid (e.g., Juvederm Ultra®, Juvederm Ultra Plus®, Perlane®, Restylane®, Prevelle Silk®) | 2,012,672 | 1,954,665 | 97% | 3% | * |
| Poly(lactic acid (Sculptra®) | 125,044 | 104,496 | 84% | -5% | * |
| TOTAL COSMETIC MINIMALLY-INVASIVE PROCEDURES | 13,932,962 | 12,832,141 | 92% | 3% | 164% |

| | | | | | |
|----------------------------------|-------------------|-------------------|------------|-----------|-------------|
| TOTAL COSMETIC PROCEDURES | 15,584,872 | 14,269,280 | 92% | 1% | 124% |
|----------------------------------|-------------------|-------------------|------------|-----------|-------------|

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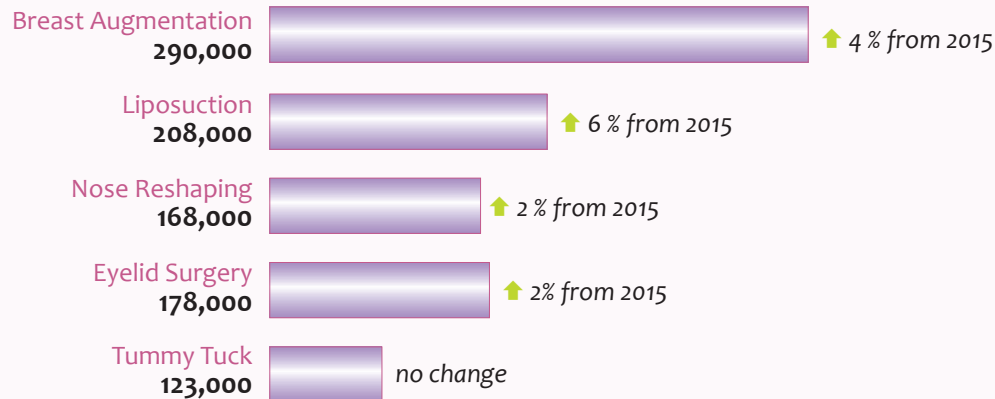
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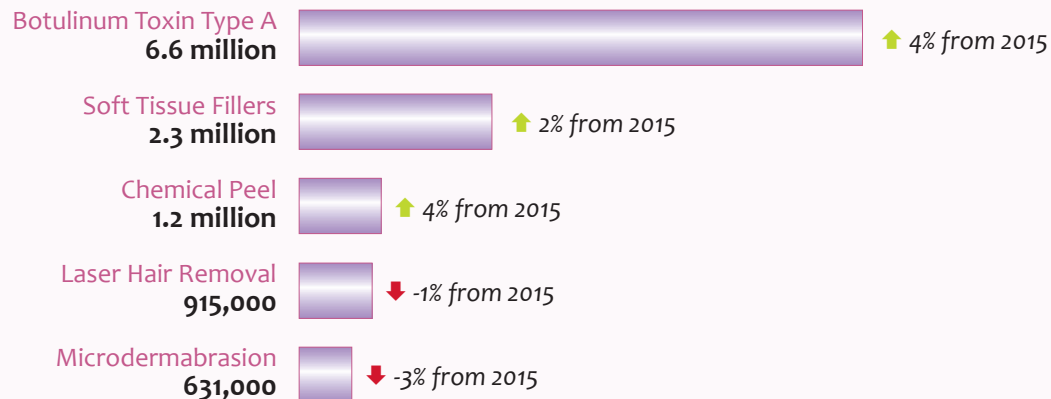
2016 Cosmetic Surgery Gender Distribution Charts

Female

2016 TOP FIVE FEMALE COSMETIC SURGICAL PROCEDURES



2016 TOP FIVE FEMALE COSMETIC MINIMALLY-INVASIVE PROCEDURES



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All figures are projected.
* Data unavailable in prior year.
***Botulinum Toxin Type A numbers are of
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2016 Cosmetic Surgery Gender Distribution

Male

Top 5 procedures appear in bold

| COSMETIC SURGICAL PROCEDURES | 2016 TOTAL PROCEDURES | 2016 TOTAL MALE | % OF TOTAL PROCEDURES | % CHANGE 2016 vs. 2015 | % CHANGE 2016 vs. 2000 |
|--|--------------------------|--------------------|--------------------------|---------------------------|---------------------------|
| Breast augmentation (augmentation mammoplasty) | 290,467 | 0 | 0% | - | - |
| Breast implant removals (augmentation patients only) | 28,467 | 0 | 0% | - | - |
| Breast lift (mastopexy) | 101,264 | 0 | 0% | - | - |
| Breast reduction in men (gynecomastia) | 27,760 | 27,760 | 100% | 1% | 36% |
| Buttock implants | 2,999 | 398 | 13% | 23% | * |
| Buttock lift | 4,251 | 320 | 8% | -14% | 567% |
| Calf augmentation | 419 | 237 | 57% | -17% | * |
| Cheek implant (malar augmentation) | 13,197 | 3,602 | 27% | 7% | 116% |
| Chin augmentation (mentoplasty) | 16,688 | 9,239 | 55% | -2% | 2% |
| Dermabrasion | 88,182 | 12,056 | 14% | 4% | -16% |
| Ear surgery (otoplasty) | 23,709 | 10,144 | 43% | 4% | -41% |
| Eyelid surgery (blepharoplasty) | 209,020 | 30,958 | 15% | 4% | -46% |
| Facelift (rhytidectomy) | 131,106 | 12,102 | 9% | 1% | -20% |
| Forehead lift | 43,038 | 4,962 | 12% | 7% | -62% |
| Hair transplantation | 16,784 | 12,038 | 72% | 6% | -70% |
| Lip augmentation (other than injectable materials) | 28,430 | 1,162 | 4% | -1% | 401% |
| Liposuction | 235,237 | 26,908 | 11% | 5% | -48% |
| Lower body lift | 11,299 | 958 | 8% | 29% | 363% |
| Nose reshaping (rhinoplasty) | 223,018 | 55,024 | 25% | 3% | -63% |
| Pectoral implants | 1,153 | 1,153 | 100% | 25% | * |
| Thigh lift | 9,929 | 478 | 5% | 7% | 117% |
| Tummy tuck (abdominoplasty) | 127,633 | 4,902 | 4% | -1% | 114% |
| Upper arm lift | 17,860 | 370 | 2% | 5% | * |
| TOTAL COSMETIC SURGICAL PROCEDURES | 1,651,910 | 214,771 | 13% | 3% | -45% |

| COSMETIC MINIMALLY-INVASIVE PROCEDURES | 2016 TOTAL PROCEDURES | 2016 TOTAL MALE | % OF TOTAL PROCEDURES | % CHANGE 2016 vs. 2015 | % CHANGE 2016 vs. 2000 |
|--|--------------------------|--------------------|--------------------------|---------------------------|---------------------------|
| Botulinum toxin type A (Botox®, Dysport®)*** | 7,056,255 | 447,508 | 6% | 4% | 376% |
| Cellulite treatment (e.g., Velosmooth®, Endermology) | 30,995 | 4,179 | 13% | 1% | * |
| Chemical peel | 1,360,850 | 104,106 | 8% | 5% | -100% |
| Laser hair removal | 1,109,385 | 194,015 | 17% | 3% | 46% |
| Laser skin resurfacing | 586,662 | 73,878 | 13% | 1% | 242% |
| Laser treatment of leg veins | 217,179 | 29,124 | 13% | 6% | 38% |
| Microdermabrasion | 775,014 | 143,791 | 19% | -2% | 67% |
| Sclerotherapy | 323,009 | 4,322 | 1% | -3% | -84% |
| Soft tissue fillers | 2,473,613 | 99,898 | 4% | 1% | 99% |
| Calcium hydroxylapatite (e.g., Radiesse®) | 242,563 | 15,772 | 7% | -8% | * |
| Collagen | 14,126 | 718 | 5% | -2% | -98% |
| Fat | 79,208 | 4,853 | 6% | 9% | 24% |
| Hyaluronic acid (e.g., Juvederm Ultra®, Juvederm Ultra Plus®, Perlane®, Restylane®, Prevelle Silk®) | 2,012,672 | 58,007 | 3% | 4% | * |
| Poly(lactic acid) (Sculptra®) | 125,044 | 20,548 | 16% | 0% | * |
| TOTAL COSMETIC MINIMALLY-INVASIVE PROCEDURES | 13,932,962 | 1,100,821 | 8% | 3% | 74% |

| | | | | | |
|----------------------------------|-------------------|------------------|-----------|-----------|------------|
| TOTAL COSMETIC PROCEDURES | 15,584,872 | 1,315,592 | 8% | 3% | 28% |
|----------------------------------|-------------------|------------------|-----------|-----------|------------|

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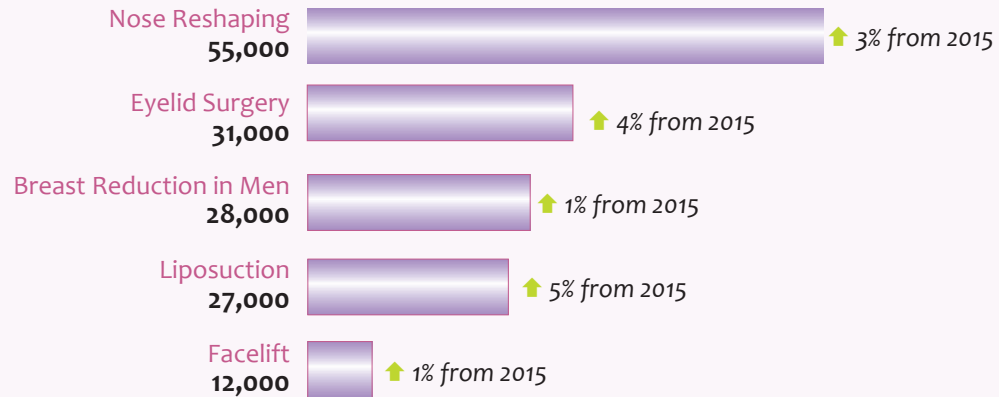
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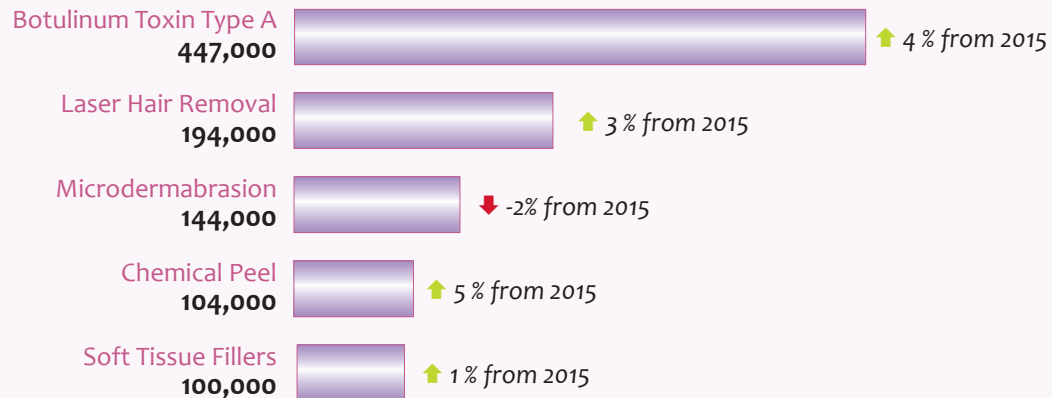
2016 Cosmetic Surgery Gender Distribution Charts

Male

2016 TOP FIVE MALE COSMETIC SURGICAL PROCEDURES



2016 TOP FIVE MALE COSMETIC MINIMALLY-INVASIVE PROCEDURES



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^Totals represents only 18 and 19 years olds.

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2016 Cosmetic Surgery Age Distribution

Age 13-19

Top 5 procedures appear in bold

| COSMETIC SURGICAL PROCEDURES | AGE 13-19 2016 TOTAL | AGE 13-19 % OF TOTAL PROCEDURES | AGE 13-19 % CHANGE 2016 vs 2015 |
|---|-------------------------|------------------------------------|------------------------------------|
| Breast augmentation (augmentation mammoplasty) [^] | 8,076 | 3% | 3% |
| Breast implant removals (augmentation patients only) [^] | 102 | 0% | 15% |
| Breast lift (mastopexy) | 1,845 | 2% | 3% |
| Breast reduction in men (gynecomastia) | 7,099 | 26% | 1% |
| Chin augmentation (mentoplasty) | 1,439 | 9% | -3% |
| Dermabrasion | 3,847 | 4% | 1% |
| Ear surgery (otoplasty) | 6,688 | 28% | 3% |
| Eyelid surgery (blepharoplasty) | 1,973 | 1% | 4% |
| Lip augmentation (other than injectable materials) | 272 | 1% | 3% |
| Liposuction | 3,751 | 2% | 6% |
| Nose reshaping (rhinoplasty) | 31,255 | 14% | 3% |
| TOTAL COSMETIC SURGICAL PROCEDURES | 66,347 | 4% | 3% |

| COSMETIC MINIMALLY-INVASIVE PROCEDURES | AGE 13-19 2016 TOTAL | AGE 13-19 % OF TOTAL PROCEDURES | AGE 13-19 % CHANGE 2016 vs 2015 |
|---|-------------------------|------------------------------------|------------------------------------|
| Botulinum Toxin Type A (Botox, Dysport) ^{***} | 20,676 | 0% | 5% |
| Chemical peel | 6,945 | 1% | 3% |
| Laser hair removal | 70,763 | 6% | -2% |
| Laser skin resurfacing | 28,799 | 5% | 3% |
| Laser treatment of leg veins | 19,602 | 9% | 3% |
| Microdermabrasion | 7,698 | 1% | -2% |
| Sclerotherapy | 1,804 | 1% | 1% |
| Soft Tissue Fillers | 6,917 | 0% | 1% |
| Calcium hydroxylapatite (Radiesse) | 810 | 0% | -5% |
| Collagen | 48 | 0% | -2% |
| Fat | 687 | 1% | 12% |
| Hyaluronic acid (Juvederm Ultra, Juvederm Ultra Plus, Perlane, Restylane) | 3,657 | 0% | 4% |
| Polylactic acid (Sculptra) | 1,715 | 1% | -5% |
| TOTAL COSMETIC MINIMALLY-INVASIVE PROCEDURES | 163,204 | 1% | 1% |

| | | | |
|----------------------------------|----------------|-----------|-----------|
| TOTAL COSMETIC PROCEDURES | 229,551 | 1% | 1% |
|----------------------------------|----------------|-----------|-----------|

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2016 Cosmetic Surgery Age Distribution

Age 20-29

Top 5 procedures appear in bold

| COSMETIC SURGICAL PROCEDURES | AGE 20-29 2016 TOTAL | AGE 20-29 % OF TOTAL PROCEDURES | AGE 20-29 % CHANGE 2016 vs 2015 |
|--|-------------------------|------------------------------------|------------------------------------|
| Breast augmentation (augmentation mammoplasty) | 82,042 | 28% | 3% |
| Breast implant removals (augmentation patients only) | 3,717 | 13% | 15% |
| Breast lift (mastopexy) | 13,753 | 14% | 1% |
| Breast reduction in men (gynecomastia) | 9,689 | 35% | 1% |
| Buttock implants | 600 | 20% | 17% |
| Buttock lift | 532 | 13% | -10% |
| Calf augmentation | 160 | 38% | -18% |
| Cheek implant (malar augmentation) | 1,231 | 9% | 5% |
| Chin augmentation (mentoplasty) | 2,302 | 14% | -4% |
| Dermabrasion | 5,925 | 7% | 2% |
| Ear surgery (otoplasty) | 7,084 | 30% | 6% |
| Eyelid surgery (blepharoplasty) | 3,690 | 2% | 3% |
| Facelift (rhytidectomy) | 372 | 0% | 3% |
| Forehead lift | 242 | 1% | 8% |
| Hair transplantation | 1,461 | 9% | 8% |
| Lip augmentation (other than injectable materials) | 1,360 | 5% | 4% |
| Liposuction | 36,003 | 15% | 6% |
| Lower body lift | 1,086 | 10% | 35% |
| Nose reshaping (rhinoplasty) | 70,210 | 31% | 1% |
| Pectoral implants | 584 | 51% | 24% |
| Thigh lift | 611 | 6% | 7% |
| Tummy tuck (abdominoplasty) | 12,192 | 10% | 1% |
| Upper arm lift | 1,637 | 9% | 3% |
| TOTAL COSMETIC SURGICAL PROCEDURES | 256,483 | 16% | 3% |

| COSMETIC MINIMALLY-INVASIVE PROCEDURES | AGE 20-29 2016 TOTAL | AGE 20-29 % OF TOTAL PROCEDURES | AGE 20-29 % CHANGE 2016 vs 2015 |
|---|-------------------------|------------------------------------|------------------------------------|
| Botulinum toxin type A (Botox®, Dysport®)*** | 105,886 | 2% | 5% |
| Cellulite treatment (e.g., Velosmooth®, Endermology) | 6,835 | 22% | 2% |
| Chemical peel | 16,174 | 1% | 3% |
| Laser hair removal | 240,083 | 22% | -1% |
| Laser skin resurfacing | 32,621 | 6% | 3% |
| Laser treatment of leg veins | 27,900 | 13% | 6% |
| Microdermabrasion | 59,889 | 8% | -4% |
| Sclerotherapy | 14,025 | 4% | 1% |
| Soft tissue fillers | 69,101 | 3% | 2% |
| Calcium hydroxylapatite (e.g., Radiesse®) | 4,787 | 2% | -6% |
| Collagen | 654 | 5% | -2% |
| Fat | 3,930 | 5% | 12% |
| Hyaluronic acid (e.g., Juvederm Ultra®, Juvederm Ultra Plus®, Perlane®, Restylane®, Prevelle Silk®) | 53,134 | 3% | 3% |
| Polyactic acid (Sculptra®) | 6,596 | 5% | -4% |
| TOTAL COSMETIC MINIMALLY-INVASIVE PROCEDURES | 572,514 | 4% | 1% |

| | | | |
|----------------------------------|----------------|-----------|-----------|
| TOTAL COSMETIC PROCEDURES | 828,997 | 5% | 2% |
|----------------------------------|----------------|-----------|-----------|

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2016 Cosmetic Surgery Age Distribution

Age 30-39

Top 5 procedures appear in bold

| COSMETIC SURGICAL PROCEDURES | AGE 30-39 2016 TOTAL | AGE 30-39 % OF TOTAL PROCEDURES | AGE 30-39 % CHANGE 2016 vs 2015 |
|--|-------------------------|------------------------------------|------------------------------------|
| Breast augmentation (augmentation mammoplasty) | 108,513 | 37% | 6% |
| Breast implant removals (augmentation patients only) | 8,229 | 29% | 14% |
| Breast lift (mastopexy) | 30,698 | 30% | 3% |
| Breast reduction in men (gynecomastia) | 4,916 | 18% | 1% |
| Buttock implants | 999 | 33% | 17% |
| Buttock lift | 1,184 | 28% | -12% |
| Calf augmentation | 168 | 40% | -19% |
| Cheek implant (malar augmentation) | 2,748 | 21% | 4% |
| Chin augmentation (mentoplasty) | 2,208 | 13% | -4% |
| Dermabrasion | 8,857 | 10% | 0% |
| Ear surgery (otoplasty) | 4,175 | 18% | 5% |
| Eyelid surgery (blepharoplasty) | 13,084 | 6% | 1% |
| Facelift (rhytidectomy) | 2,018 | 2% | 4% |
| Forehead lift | 1,781 | 4% | 6% |
| Hair transplantation | 1,365 | 8% | 6% |
| Lip augmentation (other than injectable materials) | 3,688 | 13% | 4% |
| Liposuction | 79,293 | 34% | 6% |
| Lower body lift | 3,071 | 27% | 33% |
| Nose reshaping (rhinoplasty) | 52,658 | 24% | 2% |
| Pectoral implants | 208 | 18% | 26% |
| Thigh lift | 2,846 | 29% | 8% |
| Tummy tuck (abdominoplasty) | 45,088 | 35% | 0% |
| Upper arm lift | 2,583 | 14% | 6% |
| TOTAL COSMETIC SURGICAL PROCEDURES | 380,378 | 23% | 4% |

| COSMETIC MINIMALLY-INVASIVE PROCEDURES | AGE 30-39 2016 TOTAL | AGE 30-39 % OF TOTAL PROCEDURES | AGE 30-39 % CHANGE 2016 vs 2015 |
|---|-------------------------|------------------------------------|------------------------------------|
| Botulinum toxin type A (Botox®, Dysport®)*** | 1,275,146 | 18% | 5% |
| Cellulite treatment (e.g., Velosmooth®, Endermology) | 16,646 | 54% | 0% |
| Chemical peel | 177,297 | 13% | 4% |
| Laser hair removal | 324,195 | 29% | 0% |
| Laser skin resurfacing | 49,524 | 8% | 2% |
| Laser treatment of leg veins | 65,337 | 30% | 3% |
| Microdermabrasion | 177,380 | 23% | -3% |
| Sclerotherapy | 65,635 | 20% | 1% |
| Soft tissue fillers | 278,839 | 11% | 3% |
| Calcium hydroxylapatite (e.g., Radiesse®) | 20,124 | 8% | -4% |
| Collagen | 2,193 | 16% | -1% |
| Fat | 10,343 | 13% | 13% |
| Hyaluronic acid (e.g., Juvederm Ultra®, Juvederm Ultra Plus®, Perlane®, Restylane®, Prevelle Silk®) | 232,266 | 12% | 4% |
| Polylactic acid (Sculptra®) | 13,913 | 11% | -5% |
| TOTAL COSMETIC MINIMALLY-INVASIVE PROCEDURES | 2,429,999 | 17% | 3% |

| | | | |
|----------------------------------|------------------|------------|-----------|
| TOTAL COSMETIC PROCEDURES | 2,810,377 | 18% | 4% |
|----------------------------------|------------------|------------|-----------|

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2016 Cosmetic Surgery Age Distribution

Age 40-54

Top 5 procedures appear in bold

| COSMETIC SURGICAL PROCEDURES | AGE 40-54 2016 TOTAL | AGE 40-54 % OF TOTAL PROCEDURES | AGE 40-54 % CHANGE 2016 vs 2015 |
|--|-------------------------|------------------------------------|------------------------------------|
| Breast augmentation (augmentation mammoplasty) | 84,732 | 29% | 3% |
| Breast implant removals (augmentation patients only) | 11,863 | 42% | 16% |
| Breast lift (mastopexy) | 39,063 | 39% | 2% |
| Breast reduction in men (gynecomastia) | 3,689 | 13% | 1% |
| Buttock implants | 1,183 | 39% | 19% |
| Buttock lift | 1,784 | 42% | -11% |
| Calf augmentation | 64 | 15% | -19% |
| Cheek implant (malar augmentation) | 5,793 | 44% | 4% |
| Chin augmentation (mentoplasty) | 4,161 | 25% | -3% |
| Dermabrasion | 33,740 | 38% | 0% |
| Ear surgery (otoplasty) | 3,498 | 15% | 3% |
| Eyelid surgery (blepharoplasty) | 89,022 | 43% | 1% |
| Facelift (rhytidectomy) | 43,216 | 33% | 5% |
| Forehead lift | 17,296 | 40% | 7% |
| Hair transplantation | 3,508 | 21% | 6% |
| Lip augmentation (other than injectable materials) | 10,216 | 36% | 3% |
| Liposuction | 92,078 | 39% | 6% |
| Lower body lift | 4,917 | 44% | 34% |
| Nose reshaping (rhinoplasty) | 46,621 | 21% | 3% |
| Pectoral implants | 223 | 19% | 26% |
| Thigh lift | 4,732 | 48% | 8% |
| Tummy tuck (abdominoplasty) | 52,697 | 41% | 0% |
| Upper arm lift | 7,596 | 43% | 4% |
| TOTAL COSMETIC SURGICAL PROCEDURES | 561,692 | 34% | 3% |

| COSMETIC MINIMALLY-INVASIVE PROCEDURES | AGE 40-54 2016 TOTAL | AGE 40-54 % OF TOTAL PROCEDURES | AGE 40-54 % CHANGE 2016 vs 2015 |
|---|-------------------------|------------------------------------|------------------------------------|
| Botulinum toxin type A (Botox®, Dysport®)*** | 4,051,194 | 57% | 4% |
| Cellulite treatment (e.g., Velosmooth®, Endermology) | 7,501 | 24% | 2% |
| Chemical peel | 567,431 | 42% | 4% |
| Laser hair removal | 402,520 | 36% | -1% |
| Laser skin resurfacing | 241,424 | 41% | 3% |
| Laser treatment of leg veins | 67,789 | 31% | 6% |
| Microdermabrasion | 344,481 | 44% | -3% |
| Sclerotherapy | 157,550 | 49% | -1% |
| Soft tissue fillers | 1,217,089 | 49% | 1% |
| Calcium hydroxylapatite (e.g., Radiesse®) | 95,312 | 39% | -5% |
| Collagen | 5,010 | 35% | -2% |
| Fat | 26,643 | 34% | 13% |
| Hyaluronic acid (e.g., Juvederm Ultra®, Juvederm Ultra Plus®, Perlane®, Restylane®, Prevelle Silk®) | 1,018,484 | 51% | 2% |
| Polyactic acid (Sculptra®) | 71,640 | 57% | -3% |
| TOTAL COSMETIC MINIMALLY-INVASIVE PROCEDURES | 7,056,979 | 51% | 3% |

| | | | |
|----------------------------------|------------------|------------|-----------|
| TOTAL COSMETIC PROCEDURES | 7,618,671 | 49% | 3% |
|----------------------------------|------------------|------------|-----------|

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2016 Cosmetic Surgery Age Distribution

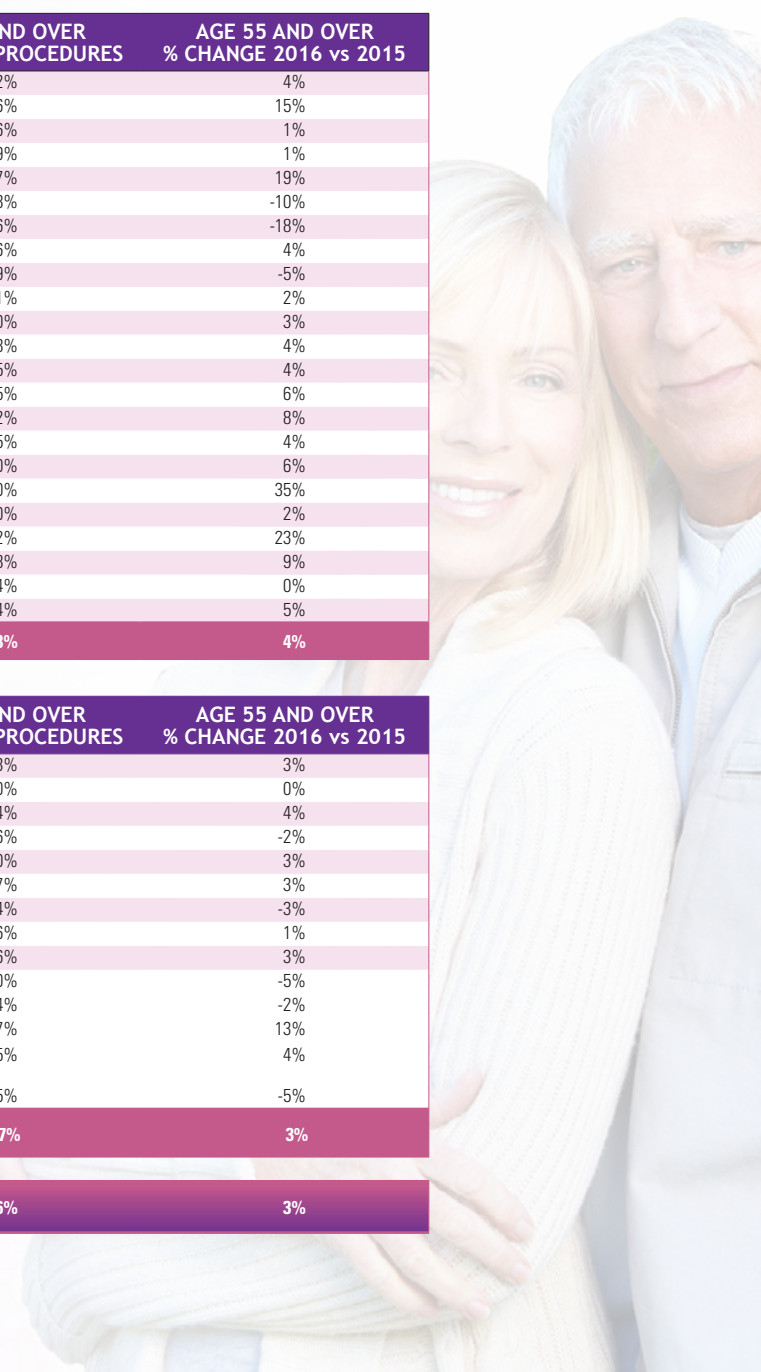
Age 55 and over

Top 5 procedures appear in bold

| COSMETIC SURGICAL PROCEDURES | AGE 55 AND OVER 2016 TOTAL | AGE 55 AND OVER % OF TOTAL PROCEDURES | AGE 55 AND OVER % CHANGE 2016 vs 2015 |
|--|-------------------------------|--|--|
| Breast augmentation (augmentation mammoplasty) | 7,104 | 2% | 4% |
| Breast implant removals (augmentation patients only) | 4,556 | 16% | 15% |
| Breast lift (mastopexy) | 15,905 | 16% | 1% |
| Breast reduction in men (gynecomastia) | 2,367 | 9% | 1% |
| Buttock implants | 217 | 7% | 19% |
| Buttock lift | 751 | 18% | -10% |
| Calf augmentation | 27 | 6% | -18% |
| Cheek implant (malar augmentation) | 3,425 | 26% | 4% |
| Chin augmentation (mentoplasty) | 6,578 | 39% | -5% |
| Dermabrasion | 35,813 | 41% | 2% |
| Ear surgery (otoplasty) | 2,264 | 10% | 3% |
| Eyelid surgery (blepharoplasty) | 101,251 | 48% | 4% |
| Facelift (rhytidectomy) | 85,500 | 65% | 4% |
| Forehead lift | 23,719 | 55% | 6% |
| Hair transplantation | 10,450 | 62% | 8% |
| Lip augmentation (other than injectable materials) | 12,894 | 45% | 4% |
| Liposuction | 24,112 | 10% | 6% |
| Lower body lift | 2,225 | 20% | 35% |
| Nose reshaping (rhinoplasty) | 22,274 | 10% | 2% |
| Pectoral implants | 138 | 12% | 23% |
| Thigh lift | 1,740 | 18% | 9% |
| Tummy tuck (abdominoplasty) | 17,656 | 14% | 0% |
| Upper arm lift | 6,044 | 34% | 5% |
| TOTAL COSMETIC SURGICAL PROCEDURES | 387,010 | 23% | 4% |

| COSMETIC MINIMALLY-INVASIVE PROCEDURES | AGE 55 AND OVER 2016 TOTAL | AGE 55 AND OVER % OF TOTAL PROCEDURES | AGE 55 AND OVER % CHANGE 2016 vs 2015 |
|--|-------------------------------|--|--|
| Botulinum toxin type A (Botox®, Dysport®)*** | 1,603,353 | 23% | 3% |
| Cellulite treatment (e.g., Velosmooth®, Endermology) | 13 | 0% | 0% |
| Chemical peel | 593,003 | 44% | 4% |
| Laser hair removal | 71,824 | 6% | -2% |
| Laser skin resurfacing | 234,294 | 40% | 3% |
| Laser treatment of leg veins | 36,551 | 17% | 3% |
| Microdermabrasion | 185,566 | 24% | -3% |
| Sclerotherapy | 83,995 | 26% | 1% |
| Soft tissue fillers | 901,667 | 36% | 3% |
| Calcium hydroxylapatite (e.g., Radiesse®) | 121,530 | 50% | -5% |
| Collagen | 6,221 | 44% | -2% |
| Fat | 37,605 | 47% | 13% |
| Hyaluronic acid (e.g., Juvederm Ultra®, Juvederm Ultra Plus®, Perlane®, Restylane®, Prevelle Silk®) | 705,131 | 35% | 4% |
| Poly-lactic acid (Sculptra®) | 31,180 | 25% | -5% |
| TOTAL COSMETIC MINIMALLY-INVASIVE PROCEDURES | 3,710,266 | 27% | 3% |

| | | | |
|----------------------------------|------------------|------------|-----------|
| TOTAL COSMETIC PROCEDURES | 4,097,276 | 26% | 3% |
|----------------------------------|------------------|------------|-----------|



2016 Regional Distribution

Top 5 procedures appear in bold

| COSMETIC SURGICAL PROCEDURES | TOTAL PROCEDURES | Region 1 | Region 2 | Region 3 | Region 4 | Region 5 |
|--|------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Breast augmentation (augmentation mammoplasty) | 290,467 | 42,843 15% | 49,062 17% | 46,405 16% | 47,601 16% | 104,556 16% |
| Breast implant removals (augmentation patients only) | 28,467 | 5,654 20% | 4,760 17% | 5,969 21% | 6,048 21% | 6,036 21% |
| Breast lift (mastopexy) | 101,264 | 12,972 13% | 14,919 15% | 20,909 21% | 20,955 21% | 31,509 21% |
| Breast reduction (Aesthetic patiebtbs only) | 39,148 | 6,319 16% | 11,206 29% | 5,833 15% | 8,063 21% | 7,727 21% |
| Breast reduction in men (gynecomastia) | 27,760 | 9,105 33% | 4,793 17% | 4,491 16% | 3,292 12% | 6,079 12% |
| Buttock augmentation with fat grafting | 18,489 | 4,144 22% | 5,200 28% | 3,813 21% | 3,084 17% | 2,248 17% |
| Buttock implants | 2,999 | 465 16% | 415 14% | 840 28% | 690 23% | 589 23% |
| Buttock lift | 4,251 | 1,026 24% | 1,379 32% | 760 18% | 603 14% | 483 14% |
| Calf augmentation | 419 | 122 29% | 42 10% | 116 28% | 50 12% | 89 12% |
| Cheek implant (malar augmentation) | 13,197 | 2,448 19% | 1,219 9% | 2,611 20% | 5,715 43% | 1,204 43% |
| Chin augmentation (mentoplasty) | 16,688 | 3,852 23% | 2,444 15% | 2,500 15% | 1,840 11% | 6,052 11% |
| Dermabrasion | 88,182 | 10,923 12% | 26,582 30% | 19,185 22% | 10,071 11% | 21,421 11% |
| Ear surgery (otoplasty) | 23,709 | 4,556 19% | 4,554 19% | 3,589 15% | 3,772 16% | 7,238 16% |
| Eyelid surgery (blepharoplasty) | 209,020 | 37,689 18% | 28,509 14% | 46,219 22% | 25,399 12% | 71,204 12% |
| Facelift (rhytidectomy) | 131,106 | 25,957 20% | 15,382 12% | 29,874 23% | 18,783 14% | 41,110 14% |
| Full Facelift | 97,110 | 19,226 20% | 11,393 12% | 22,128 23% | 13,913 14% | 30,450 14% |
| Mini Facelift | 33,996 | 6,731 20% | 3,989 12% | 7,746 23% | 4,870 14% | 10,660 14% |
| Forehead lift | 43,038 | 6,886 16% | 5,920 14% | 7,416 17% | 8,179 19% | 14,637 19% |
| Hair transplantation | 16,784 | 1,630 10% | 1,664 10% | 1,948 12% | 7,785 46% | 3,757 46% |
| Labiaplasty† | 12,666 | 2,520 20% | 2,046 16% | 2,880 23% | 1,620 13% | 3,600 13% |
| Lip augmentation (other than injectable materials) | 28,430 | 7,610 27% | 4,799 17% | 4,691 17% | 5,720 20% | 5,610 20% |
| Lip reduction | 3,547 | 628 18% | 1,263 36% | 670 19% | 515 15% | 471 15% |
| Liposuction | 235,237 | 40,970 17% | 30,580 13% | 53,588 23% | 36,466 16% | 73,633 16% |
| Lower body lift | 11,299 | 3,354 30% | 1,761 16% | 1,218 11% | 2,376 21% | 2,590 21% |
| Neck lift | 55,227 | 10,631 19% | 6,665 12% | 11,689 21% | 8,557 15% | 17,685 15% |
| Nose reshaping (rhinoplasty) | 223,018 | 64,726 29% | 30,448 14% | 27,800 12% | 40,307 18% | 59,737 18% |
| Pectoral implants | 1,153 | 180 16% | 120 10% | 323 28% | 207 18% | 323 18% |
| Thigh lift | 9,929 | 2,416 24% | 1,582 16% | 1,404 14% | 1,923 19% | 2,604 19% |
| Tummy tuck (abdominoplasty) | 127,633 | 25,249 20% | 23,121 18% | 21,834 17% | 21,271 17% | 36,158 17% |
| Upper arm lift | 17,860 | 5,201 29% | 2,475 14% | 3,755 21% | 2,451 14% | 3,978 14% |
| TOTAL COSMETIC SURGICAL PROCEDURES | 1,780,987 | 340,076 19% | 282,910 16% | 332,330 19% | 293,343 16% | 532,328 30% |

2016 Plastic Surgery Statistics Report



All values are projected.
†First year procedure is being reported

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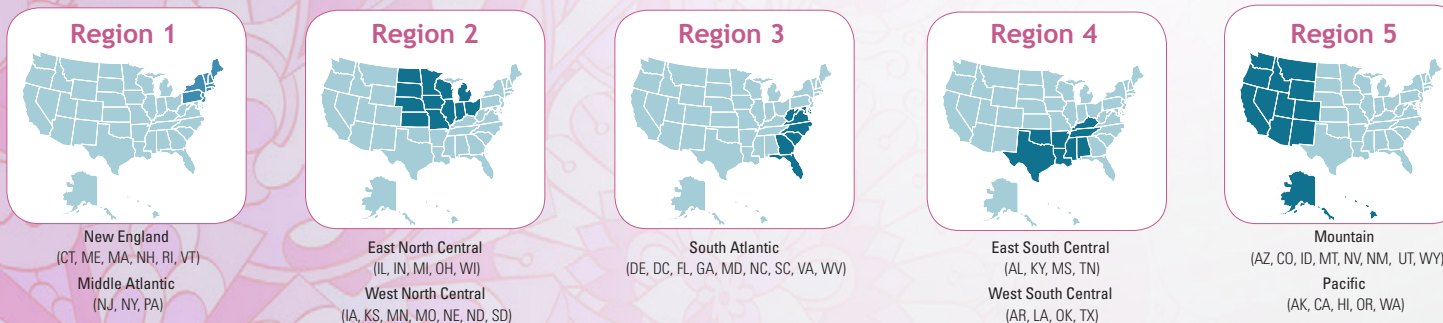
2016 Regional Distribution

Top 5 procedures appear in bold

| COSMETIC MINIMALLY-INVASIVE PROCEDURES | TOTAL PROCEDURES | Region 1 | Region 2 | Region 3 | Region 4 | Region 5 |
|---|-------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Botulinum toxin type A (Botox®, Dysport®)*** | 7,056,255 | 1,419,286 20% | 939,665 13% | 1,667,360 24% | 1,001,908 14% | 2,028,036 29% |
| Cellulite treatment (e.g., Velosmooth®, Endermology) | 30,995 | 6,899 22% | 6,999 23% | 6,252 20% | 3,494 11% | 7,351 24% |
| Chemical peel | 1,360,850 | 338,441 25% | 203,957 15% | 264,045 19% | 122,620 9% | 431,787 32% |
| Injection lipolysis (e.g., Kybella®)† | 55,660 | 10,300 19% | 10,870 20% | 11,700 21% | 7,290 13% | 15,500 28% |
| Intense pulsed light (IPL) | 656,781 | 179,022 27% | 101,255 15% | 117,607 18% | 58,339 9% | 200,558 31% |
| Laser hair removal | 1,109,385 | 192,388 17% | 146,418 13% | 239,878 22% | 171,924 15% | 358,777 32% |
| Laser skin resurfacing | 586,662 | 116,754 20% | 130,117 22% | 93,156 16% | 57,583 10% | 189,052 32% |
| Laser treatment of leg veins | 217,179 | 53,361 25% | 22,720 10% | 35,211 16% | 24,015 11% | 81,872 38% |
| Microdermabrasion | 775,014 | 194,312 25% | 148,658 19% | 160,838 21% | 89,900 12% | 181,306 23% |
| Non-invasive fat reduction (e.g., Coolsculpting®, Liposonix®)† | 333,082 | 68,453 21% | 43,948 13% | 77,198 23% | 47,031 14% | 96,452 29% |
| Non-surgical skin tightening (e.g., Pelleve®, Thermage®, Ulthera®)† | 306,089 | 60,982 20% | 42,144 14% | 71,885 23% | 41,313 13% | 89,765 29% |
| Sclerotherapy | 323,009 | 50,127 16% | 37,474 12% | 68,672 21% | 119,919 37% | 46,817 14% |
| Soft tissue fillers | 2,600,868 | 747,891 29% | 338,797 13% | 489,741 19% | 275,511 11% | 748,928 29% |
| Acellular Dermal Matrix† | 7,809 | 1,405 18% | 1,657 21% | 1,667 21% | 991 13% | 2,089 27% |
| Calcium hydroxylapatite (e.g., Radiesse®) | 242,563 | 80,521 33% | 36,072 15% | 47,442 20% | 36,652 15% | 41,876 17% |
| Collagen | 14,126 | 7,163 51% | 947 7% | 2,341 17% | 1,636 12% | 2,039 14% |
| Fat | 79,208 | 13,629 17% | 14,860 19% | 18,744 24% | 6,172 8% | 25,803 33% |
| Hyaluronic acid (e.g., Juvederm Ultra®, Juvederm Ultra Plus®, Perlane®, Restylane®, Prevelle Silk®) | 2,012,672 | 606,107 30% | 243,308 12% | 370,779 18% | 169,441 8% | 623,037 31% |
| Platelet-Rich Plasma (PRP)† | 102,101 | 21,222 21% | 13,201 13% | 23,788 23% | 14,801 14% | 29,089 28% |
| Polylactic acid (Sculptra®) | 125,044 | 14,867 12% | 27,816 22% | 18,981 15% | 44,679 36% | 18,701 15% |
| Polymethyl-methacrylate microspheres (e.g., Artefill) | 17,345 | 2,977 17% | 936 5% | 5,999 35% | 1,139 7% | 6,294 36% |
| TOTAL COSMETIC MINIMALLY-INVASIVE PROCEDURES | 15,411,829 | 3,438,216 22% | 2,173,022 14% | 3,303,543 21% | 2,020,847 13% | 4,476,201 29% |
| TOTAL COSMETIC PROCEDURES | 17,192,816 | 3,778,292 22% | 2,455,932 14% | 3,635,873 21% | 2,314,190 13% | 5,008,529 29% |

| RECONSTRUCTIVE PROCEDURES | TOTAL PROCEDURES | Region 1 | Region 2 | Region 3 | Region 4 | Region 5 |
|---------------------------|------------------|------------|------------|------------|------------|------------|
| Breast reconstruction | 109,256 | 21,700 20% | 18,269 17% | 22,909 21% | 23,212 21% | 23,166 21% |

2016 Plastic Surgery Statistics Report



All values are projected.
 ***Botulinum toxin type A numbers are of anatomic sites injected.
 †First year procedure is being reported

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2016 Average Surgeon/Physician Fees

Cosmetic Procedures

| COSMETIC SURGICAL PROCEDURES | NATIONAL AVERAGE SURGEON/PHYSICIAN FEE | TOTAL EXPENDITURE |
|--|--|-------------------|
| Breast augmentation (Augmentation mammoplasty) | \$3,719 | \$1,080,246,773 |
| Breast implant removals (Augmentation patients only) | \$2,506 | \$71,338,302 |
| Breast lift (Mastopexy) | \$4,636 | \$469,459,904 |
| Breast reduction (Aesthetic patients only) | \$5,631 | \$220,442,388 |
| Breast reduction in men (Gynecomastia) | \$3,525 | \$97,854,000 |
| Buttock augmentation with fat grafting | \$4,356 | \$80,538,084 |
| Buttock implants | \$4,860 | \$14,575,140 |
| Buttock lift | \$4,571 | \$19,431,321 |
| Calf augmentation | \$3,689 | \$1,545,691 |
| Cheek implant (Malar augmentation) | \$2,823 | \$37,255,131 |
| Chin augmentation (Mentoplasty) | \$2,225 | \$37,130,800 |
| Dermabrasion | \$1,162 | \$102,467,484 |
| Ear surgery (Otoplasty) | \$3,154 | \$74,778,186 |
| Eyelid surgery (Blepharoplasty) | \$3,022 | \$631,658,440 |
| Facelift (Rhytidectomy) | \$7,048 | \$924,035,088 |
| Full Facelift | \$7,122 | \$691,617,420 |
| Mini Facelift | \$5,092 | \$173,107,632 |
| Forehead lift | \$3,403 | \$146,458,314 |
| Hair transplantation | * | * |
| Labiaplasty† | \$2,730 | \$34,578,180 |
| Lip augmentation (other than injectable materials) | \$1,727 | \$49,098,610 |
| Lip reduction | \$1,934 | \$6,859,898 |
| Liposuction | \$3,200 | \$752,758,400 |
| Lower body lift | \$7,954 | \$89,872,246 |
| Neck lift | \$4,528 | \$250,067,856 |
| Nose reshaping (Rhinoplasty) | \$5,046 | \$1,125,348,828 |
| Pectoral implants | \$4,217 | \$4,862,201 |
| Thigh Lift | \$4,863 | \$48,284,727 |
| Tummy tuck (Abdominoplasty) | \$5,798 | \$740,016,134 |
| Upper arm lift (Brachioplasty) | \$4,257 | \$76,030,020 |

| COSMETIC MINIMALLY-INVASIVE PROCEDURES | NATIONAL AVERAGE SURGEON/PHYSICIAN FEE | TOTAL EXPENDITURE |
|---|--|-------------------|
| Botulinum Type A toxin injections (e.g., Botox®, Dysport®) | \$385 | \$2,716,658,175 |
| Cellulite treatment (e.g., Velosmooth®, Endermology) | * | * |
| Chemical peel | \$673 | \$915,852,050 |
| Injection lipolysis (e.g., Kybella®)† | \$1,257 | \$69,964,620 |
| Intense Pulsed Light (IPL) | \$433 | \$284,386,173 |
| Laser hair removal | \$306 | \$339,471,810 |
| Laser skin resurfacing | - | - |
| Ablative | \$2,330 | \$387,232,020 |
| Non-ablative (e.g., Fraxel®, etc.) | \$1,031 | \$433,502,508 |
| Laser treatment of leg veins | \$371 | \$80,573,409 |
| Microdermabrasion | \$138 | \$106,951,932 |
| Non-invasive fat reduction (e.g., Coolsculpting®, Liposonix®)† | \$1,681 | \$559,910,842 |
| Non-surgical skin tightening (e.g., Pelleve®, Thermage®, Ulthera®)† | \$2,156 | \$659,927,884 |
| Sclerotherapy | \$326 | \$105,300,934 |
| Soft Tissue Fillers | | |
| Acellular Dermal Matrix† | * | * |
| Calcium hydroxylapatite (e.g., Radiesse®) | \$687 | \$166,640,781 |
| Collagen | - | - |
| Porcine/bovine-based (e.g., Evolence®, Zyderm®, Zyplast®) | * | * |
| Fat | \$1,930 | \$152,871,440 |
| Hyaluronic acid (e.g., Juvederm Ultra®, Juvederm Ultra Plus®, Perlane®, Restylane®) | \$644 | \$1,296,160,768 |
| Platelet-Rich Plasma (PRP)† | * | * |
| Poly-lactic acid (e.g., Sculptra®) | \$773 | \$96,659,012 |
| Polymethyl-methacrylate microspheres (e.g., Artefill) | \$859 | \$14,899,355 |

Total 2016 Expenditures **\$16,438,680,911**

2016 Plastic Surgery Statistics Report



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* Data unavailable this year.

† First year procedure is being reported

All values are projected.

Fees generally vary according to region of country and patient needs.

These fees are averages only. Fees do not include anesthesia, operating room facilities or other related expenses.

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2016 Cosmetic Demographics

| Patient behavior | 2016 | % 2016 | 2015 | % 2015 | % CHANGE 2016 vs. 2015 |
|---|------|--------|------|--------|---------------------------|
| Cosmetic Patients who are repeat patients | | 46% | | 47% | |
| Patients having multiple cosmetic procedures at the same time | | 41% | | 41% | |

| Cosmetic procedures performed in | 2016 | % 2016 | 2015 | % 2015 | % CHANGE 2016 vs. 2015 |
|--|------------|--------|------------|--------|---------------------------|
| Office | 11,741,637 | 72% | 11,377,230 | 72% | 3% |
| Hospital | 1,506,615 | 9% | 1,469,826 | 9% | 3% |
| Free-standing Ambulatory Surgical Facility | 3,142,523 | 19% | 3,061,274 | 19% | 3% |

| Ethnicity breakdown of cosmetic procedures | 2016 | % 2016 | 2015 | % 2015 | % CHANGE 2016 vs. 2015 |
|--|------------|--------|------------|--------|---------------------------|
| Caucasian | 11,392,019 | 70% | 10,969,059 | 69% | 4% |
| Hispanic | 1,654,228 | 10% | 1,688,714 | 11% | -2% |
| African-American | 1,367,616 | 8% | 1,362,282 | 9% | 0% |
| Asian-American | 1,154,084 | 7% | 1,093,720 | 7% | 6% |
| Other | 822,828 | 5% | 794,555 | 5% | 4% |

| Popular cosmetic surgical procedures by group | Caucasian | African-American | Asian/Pacific Islander | Hispanic | Other |
|---|-----------|------------------|------------------------|----------|-------|
| Breast Augmentation | 74% | 6% | 6% | 10% | 3% |
| Rhinoplasty | 71% | 6% | 5% | 11% | 7% |
| Blepharoplasty | 80% | 3% | 7% | 7% | 3% |
| Liposuction | 77% | 8% | 4% | 9% | 2% |
| Abdominoplasty | 70% | 10% | 5% | 12% | 3% |

| Popular cosmetic minimally-invasive procedures by group | Caucasian | African-American | Asian/Pacific Islander | Hispanic | Other |
|---|-----------|------------------|------------------------|----------|-------|
| Botulinum toxin type A (Botox®, Dysport®) | 77% | 5% | 5% | 9% | 4% |
| Soft tissue fillers | 77% | 6% | 5% | 7% | 5% |
| Chemical peel | 83% | 3% | 5% | 7% | 3% |
| Laser hair removal | 75% | 6% | 5% | 7% | 7% |
| Microdermabrasion | 73% | 5% | 5% | 9% | 8% |

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* 94% of total breast implants were silicone; 6% were saline.

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2016 Reconstructive Demographics

| Reconstructive procedures performed in | 2016 | % 2016 | 2015 | % 2015 | % CHANGE 2016 vs. 2015 |
|--|-----------|--------|-----------|--------|---------------------------|
| Office | 2,597,375 | 45% | 2,594,694 | 45% | 0% |
| Hospital | 2,400,355 | 41% | 2,397,877 | 41% | 0% |
| Free-standing Ambulatory Surgical Facility | 823,277 | 14% | 822,427 | 14% | 0% |

| Reconstructive procedures by group | Caucasian | African-American | Asian/Pacific Islander | Hispanic | Other |
|------------------------------------|-----------|------------------|------------------------|----------|-------|
| Breast reconstruction | 73% | 15% | 3% | 9% | 1% |
| Burn care | 67% | 15% | 4% | 9% | 4% |
| Cleft Lip & Palate Repair | 48% | 4% | 12% | 24% | 11% |
| Tumor removal | 73% | 9% | 4% | 8% | 5% |
| Treatment of dog bites | 69% | 11% | 3% | 13% | 3% |

2016 Reconstructive Breast Procedures

(with age distribution)

| RECONSTRUCTIVE BREAST PROCEDURES | TOTAL PROCEDURES | 13-19 | 20-29 | 30-39 | 40-54 | 55 AND OVER |
|--|------------------|-------|-------|--------|--------|-------------|
| Breast reconstruction* | 109,256 | 531 | 2,606 | 12,499 | 56,222 | 37,398 |
| Saline implants | 5,018 | - | - | - | - | - |
| Silicone implants | 83,588 | - | - | - | - | - |
| Implant alone | 9,587 | - | - | - | - | - |
| Tissue expander and implant | 79,019 | - | - | - | - | - |
| TRAM flap | 5,190 | - | - | - | - | - |
| DIEP flap | 8,585 | - | - | - | - | - |
| Latissimus Dorsi flap | 6,151 | - | - | - | - | - |
| Other flap | 724 | - | - | - | - | - |
| Timing-Immediate | 78,932 | - | - | - | - | - |
| Timing-Delayed | 30,324 | - | - | - | - | - |
| Unilateral | 37,857 | - | - | - | - | - |
| Bilateral | 71,399 | - | - | - | - | - |
| Acellular dermal matrix | 58,310 | - | - | - | - | - |
| Fat grafts | 30,516 | - | - | - | - | - |
| Breast reduction (reconstructive patients only) | 61,546 | - | - | - | - | - |
| Breast implant removals (Reconstructive patients only) | 18,778 | 140 | 1,104 | 3,564 | 8,583 | 5,387 |

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[†]First year procedure is being reported

^{****}Counts of procedures performed by ASPS member surgeons only

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2016 Body Contouring After Massive Weight Loss

| BODY CONTOURING AFTER MASSIVE WEIGHT LOSS PROCEDURES | 2016 | 2015 | % CHANGE 2016 vs. 2015 |
|---|---------------|---------------|---------------------------|
| Breast lift (Mastopexy) after massive weight loss | 13,174 | 12,325 | 7% |
| Lower body lift after massive weight loss | 6,449 | 4,642 | 39% |
| Thigh lift after massive weight loss | 4,778 | 4,702 | 2% |
| Tummy tuck (Abdominoplasty) after massive weight loss | 23,985 | 21,696 | 11% |
| Upper arm lift after massive weight loss | 6,859 | 6,800 | 1% |
| TOTAL BODY CONTOURING AFTER MASSIVE WEIGHT LOSS PROCEDURES | 55,245 | 50,165 | 10% |

2016 Gender Confirmation Surgery Statistics

| GENDER CONFIRMATION SURGERIES | 2016 | 2015 | % CHANGE 2016 vs. 2015 |
|--|--------------|--------------|---------------------------|
| Transfeminine (Male to Female) patients ^{****} | 1,759 | 1,380 | 27% |
| Transmasculine (Female to Male) patients ^{****} | 1,497 | 1,360 | 10% |
| TOTAL GENDER CONFIRMATION SURGERIES | 3,256 | 2,740 | 19% |