PLASTIC SURGERY MARKETS
(SAMPLE COPY, NOT FOR RESALE)

Trends, Industry Participants, Product Overviews and Market Drivers
TABLE OF CONTENTS

1. Overview 15
1.1 Statement of Report 15
1.2 Scope of the Report 16
1.3 Methodology 16
1.4 Executive Summary 17

2. A Brief Overview of Plastic Surgery Procedures 19
2.1 Scope of this Chapter 19
2.2 Plastic Surgery Procedures 19
2.2.1 Reconstructive Surgery Procedures 19
2.2.1.1 Breast Reconstruction 19
2.2.1.2 Flap Technique in Breast Reconstruction 19
2.2.1.3 Tissue Expansion in Breast Reconstruction 20
2.2.1.4 Surgical Implantation of Breast Implants 20
2.2.1.5 Breast Reduction 21
2.2.1.6 Cleft Lip and Palate Repair 21
2.2.1.7 Hand Surgery 21
2.2.1.8 Scar Revision 22
2.2.1.9 Birth Defects and Reconstructive Surgery 23
2.2.1.10 Vascular Lesions 25
2.2.1.11 Tattoo Removal 28
2.2.1.12 Acne Scars 31
2.2.2 Popular Cosmetic Surgical Procedures 33
2.2.2.1 Arm Lift (Brachioplasty) 33
2.2.2.2 Breast Augmentation (Augmentation Mammaplasty) 33
2.2.2.3 Breast Lift (Mastopexy) 34
2.2.2.4 Male Breast Reduction (Gynecomastia) 34
2.2.2.5 Brow Lift (Forehead Lift) 35
2.2.2.6 Buttock Augmentation 35
2.2.2.7 Chin Surgery (Mentoplasty) 35
2.2.2.8 Eyelid Surgery (Blepharoplasty) 36
2.2.2.9 Ear Surgery (Otoplasty) 36
2.2.2.10 Facelift (Rhytidectomy) 36
2.2.2.11 Facial Implants 37
2.2.2.12 Hair Replacement 37
2.2.2.13 Nose Surgery (Rhinoplasty) 38
2.2.2.14 Tummy Tuck (Abdominoplasty) 38
2.2.3 Minimally-Invasive Cosmetic Procedures 38
2.2.3.1 Chemical Peel (Chemexfoliation) 38
2.2.3.2 Botulinum Toxin 39
2.2.3.3 Dermal Fillers 39
2.2.3.4 Calcium Hydroxylapatite 39
2.2.3.5 Collagen Fillers 39
2.2.3.6 Hyaluronic Acid 40
2.2.3.7 PMMA (Polymethyl-Methacrylate) 40
2.2.3.8 Polylactic Acid 40
2.2.3.9 Laser Resurfacing 42
2.2.3.10 Laser- and Ultrasound-Assisted Liposuction 42
2.2.3.11 Microdermabrasion 43
2.2.3.12 Laser Hair Removal 44
2.2.4 Breast Implants 46
2.2.4.1 Saline Breast Implants 46
2.2.4.2 Silicone Breast Implants 46
2.2.4.3 Breast Implant Products 46
2.3 Beauty Cosmetics 48
2.3.1 The Five Cosmetics Segments 48
2.3.1.1 Hair Care Products 48
2.3.1.2 Skin Care Products 48
2.3.1.3 Make-Up Products 48
2.3.1.4 Fine Fragrance Products 48
2.3.1.5 Other Products 49
2.4 Cosmetic Dental Procedures 49
2.4.1 BriteSmile Teeth Whitening 50
2.4.2 Cosmetic Tooth Contouring and Reshaping 50
2.4.3 Dental Veneers 50
2.4.4 Dental Bonding 50
2.4.5 Dental Bridges 51
2.4.6 Dental Crowns 51
2.4.7 Dental Implants 52
2.4.8 Cosmetic Gum Surgery 52
2.4.9 Invisalign® Invisible Braces 53
2.4.10 Orthodontic Braces 53
2.4.11 Lumineers 54
2.4.12 Porcelain Veneers 54
2.5 Medical Tourism 54
2.5.1 Medical Tourism for Cosmetic Surgeries 55
2.5.1.1 Brazil 55
2.5.1.2 Costa Rica 55
2.5.1.3 Hungary 56
2.5.1.4 India 56
2.5.1.5 Malaysia 56
2.5.1.6 Mexico 56
2.5.1.7 Singapore 56
2.5.1.8 South Korea 56
2.5.1.9 Thailand 56
2.5.1.10 Turkey 57

3. Plastic Surgery: Market Analysis 58
3.1 Scope of this Chapter 58
3.2 Global Market for Plastic Surgery 58
3.2.1 Global Market for Aesthetic Products 58
3.2.2 Global Market for Neuromodulators 59
3.2.3 Global Dermal Filler Market 60
3.2.4 Global Market for Skin Tightening and Body Shaping Devices 60
3.2.5 Global Leaders in Skin Tightening and Body Shaping Devices 61
3.2.6 Global Market for Disposables of Aesthetic Devices 63
3.2.7 Market for Physician-Dispensed Skin Care and Eyelash Products 64
3.2.8 Market for Skin Rejuvenation 65
3.2.9 Global Market for Silicone Breast Implants 67
3.2.10 Leading Global Players in Aesthetic Devices 68
3.2.11 Liposuction around the Globe 69
3.3 Plastic Surgery in the U.S. 71
3.3.1 Top Five Surgical Cosmetic Procedures in the U.S. 72
3.3.2 Top Five Minimally-Invasive Cosmetic Procedures in the U.S. 73
3.3.3 Top Five Reconstructive Procedures in the U.S. 74
3.3.4 Plastic Surgery Procedures by Women in the U.S. 75
3.3.5 Top Five Female Cosmetic Surgerical Procedures 77
3.3.6 Top Five Female Minimally-Invasive Cosmetic Procedures in the U.S. 77
3.3.7 Male Cosmetic Surgery in the U.S.  
3.3.8 Top Five Male Cosmetic Surgical Procedures  
3.3.9 Top Five Male Minimally-Invasive Cosmetic Procedures in the U.S.  
3.3.10 Surgeon’s Fee for Cosmetic Surgeries in the U.S.  
3.3.11 Repeat and Multiple Cosmetic Surgery Patients in the U.S.  
3.3.12 Plastic Surgery Procedures and Facility Settings in the U.S.  
3.3.13 Ethnic Breakdown of Cosmetic Procedures in the U.S.  
3.3.14 Cosmetic Surgery Age Distribution in the U.S.  
3.3.15 Future of Cosmetic Surgery in the U.S.  
3.3.16 U.S. Market for Aesthetic Medical Devices  
3.4 Plastic Surgery Market in the U.K.  
3.5 Plastic Surgery Costs in Europe  
3.6 Cosmetic Surgery Market in Asia  
3.7 Market for Dental Procedures  
3.7.1 Global Dental Implants Market  
3.7.1.1 Implant Market Structure  
3.7.1.2 Market for Restorative Industry  
3.7.1.3 Global Market for Dental Regenerative Products  
3.7.2 Global Dental Equipment and Consumables Market  
3.7.3 Market for Removable Dentures  
3.8 Hair Transplantation Surgery for Hair Restoration  
3.8.1 Market for Hair Restoration  
3.9 Market for Cosmetics  
3.9.1 Global Beauty Trends  
3.9.2 Global Cosmetics Market  
3.9.4 Cosmetics Market in Canada  
3.9.5 Cosmetics Market in Europe  
3.9.5.1 Cosmetics Market in Eastern Europe  
3.9.5.2 Cosmetics Market in Western Europe  
3.9.5.3 Cosmetics Market in Germany  
3.9.5.4 Cosmetics Market in Italy  
3.9.5.5 Cosmetics Market in the U.K.  
3.9.6 Cosmetics Market in Spain  
3.9.7 Cosmetics Market in Turkey  
3.9.8 Cosmetics Market in Japan  
3.9.9 Cosmetics Market in Brazil  
3.9.10 Cosmetics Market in Hong Kong  
3.9.11 Cosmetics Market in China  
3.9.12 Cosmetics Market in India  
3.10 Global Market for Medical Tourism  
3.10.1 Incentives for U.S. Medical Tourists to Pursue Treatments Abroad  
3.10.2 Growth of Foreign Medical Sites to Accommodate Medical Tourists  
3.10.3 Medical Tourism Facilitators  
3.10.4 Host Countries for Medical Tourists  
3.10.4.1 Medical Tourism in Brazil  
3.10.4.2 Medical Tourism in Costa Rica  
3.10.4.3 Medical Tourism in Hungary  
3.10.4.4 Medical Tourism in India  
3.10.4.5 Medical Tourism in Malaysia  
3.10.4.6 Medical Tourism in Mexico  
3.10.4.7 Medical Tourism in Singapore  
3.10.4.8 Medical Tourism in South Korea  
3.10.4.9 Medical Tourism in Thailand  
3.10.4.10 Medical Tourism in Turkey

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4. Company Profiles 148
4.1 Aerolase 148
4.1.1 LightPod® Neo™ 148
4.1.2 LightPod® Era™ 149
4.2 Allergan, Inc. 149
4.2.1 Allergan’s Operating Segments 149
4.2.2 Allergan’s Neuromodulator Product Line 150
4.2.3 Botox Cosmetic 150
4.2.4 Allergan’s Skin Care Product Lines 150
4.2.5 Allergan’s Urologic Product Lines 151
4.2.6 Allergan’s Medical Devices Segment 151
4.2.6.1 Saline Breast Implants 151
4.2.6.2 Silicone Gel Breast Implants 151
4.2.6.3 Facial Aesthetics 151
4.2.7 Allergan’s Research and Development 152
4.2.8 Allergan’s Business Performance 152
4.2.9 Allergan’s Corporate Research Collaborations 155
4.3 Alma Lasers 156
4.3.1 Alma’s Products 157
4.3.1.1 AccentXL Aesthetic RF System 157
4.3.1.2 Accent 980 Diode Laser Systems 157
4.3.1.3 SopranoXL Laser System 157
4.3.1.4 HarmonyXL Cosmetic Laser Solutions 158
4.3.1.5 Pixel® CO2® Fractional Laser Solution 158
4.3.1.6 Fractional Laser Handpiece 158
4.4 American Medical BioCare, Inc. 158
4.4.1 Omnilight™ FPL 159
4.4.2 Novalight™ FPL 159
4.4.3 Plasmalite® 160
4.4.4 Omnicool 160
4.5 Anika Therapeutics, Inc. 161
4.5.1 Anika’s Aesthetic Dermatology Business 161
4.5.2 Anika’s Aesthetic Product 162
4.6 Anteis SA 162
4.6.1 Esthélis 162
4.6.2 Fortélis 162
4.6.3 Mesolis 163
4.7 AQTIS Medical™ BV 163
4.8 Asclepion Laser Technologies 163
4.8.1 Asclepion’s Product Offerings 163
4.8.1.1 MeDioStar 163
4.8.1.2 Dermablate 164
4.8.1.3 TattooStar 165
4.8.1.4 MeDioStar XT 166
4.8.1.5 MCL30 Dermablate 166
4.8.1.6 QuadroStar+ 167
4.8.1.7 MultiPulse 167
4.9 Avon 167
4.9.1 Avon’s Research and Product Development Activities 167
4.9.2 Avon’s Business Performance 168
4.10 Beiersdorf AG 169
4.10.1 Beiersdorf’s Cosmetics Business 169
4.11 Bioform Medical, Inc. 171
4.11.1 Bioform’s Core Technology 171
4.11.2 Bioform’s Products 172
4.11.2.1 Radiesse Aesthetic 172
4.11.2.2 Radiesse Voice and Radiesse® Voice Gel 172
4.11.2.3 Coaptite Injectable Implant 172
4.11.3 Products in Development 172
4.11.3.1 Aethoxysklerol Sclerosing Agent 172
4.11.3.2 BioGlue® Surgical Adhesive 173
4.12 The biolitec Group 173
4.12.1 The biolitec Group’s Aesthetics 173
4.12.1.1 ELVeST™ for Varicose Veins 173
4.12.2 The biolitec Group’s Business Performance by Region 173
4.13 Carol Cole Company 174
4.13.1 The Science of Microcurrent Technology 174
4.13.2 NuFace® 174
4.14 Chromogenex Technologies Ltd. 174
4.14.1 Fusion 3D Lift 175
4.14.2 iLipo™ 175
4.14.3 Phaser-EPL™ 175
4.14.4 Nicolite 176
4.14.5 Chromoderm™ 176
4.14.6 Regenlite™ 176
4.15 Contura International AS 177
4.15.1 Aquamid 177
4.16 CoolTouch, Inc. 177
4.16.1 CoolBreeze™ 177
4.16.2 CoolLipo™ 178
4.16.3 CoolTouch CTEV™ 178
4.16.4 CoolTouch VARIA™ 178
4.16.5 CoolTouch CT3 Plus™ 179
4.16.6 CoolLipo™ Trio 179
4.17 Cutera, Inc. 179
4.17.1 Cutera’s Investment in Research and Development 179
4.17.2 Cutera’s Product Offerings 180
4.17.3 Cutera’s Business Performance 181
4.17.4 Cutera’s International Presence 181
4.18 CyDen Ltd. 181
4.18.1 iPulse Personal 182
4.18.2 i200+lite 182
4.18.3 i300 lite 182
4.18.4 i400 183
4.19 Cynosure, Inc. 183
4.19.1 Cynosure’s Solutions 183
4.19.2 Acclaim™ 184
4.19.3 Accolade™ 185
4.19.4 Affinity QS™ 185
4.19.5 Affirm™ 185
4.19.6 Apogee™ 186
4.19.7 Cynergy™ 186
4.19.8 Elite™ 186
4.19.9 Elite MPX™ 186
4.19.10 Smartlipo™ 187
4.19.11 Smartlipo MPX™ 187
4.19.12 Smartlipo Triplex™ 187
4.19.13 SmartSkin CO2™ 188
4.19.14 TriActive™ 188
4.19.15 Cynosure’s Research and Development 188
<table>
<thead>
<tr>
<th>Section</th>
<th>Company</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.19.16</td>
<td>Cynosure’s Business Performance</td>
<td>189</td>
</tr>
<tr>
<td>4.20</td>
<td>DEKA</td>
<td>190</td>
</tr>
<tr>
<td>4.20.1</td>
<td>Synchro FT</td>
<td>190</td>
</tr>
<tr>
<td>4.20.2</td>
<td>DOT1540 WorkStation</td>
<td>190</td>
</tr>
<tr>
<td>4.20.3</td>
<td>SmartXide DOT</td>
<td>191</td>
</tr>
<tr>
<td>4.20.4</td>
<td>SmartXide HS</td>
<td>191</td>
</tr>
<tr>
<td>4.20.5</td>
<td>TriActive +</td>
<td>191</td>
</tr>
<tr>
<td>4.20.6</td>
<td>Synchro PLA:Y</td>
<td>192</td>
</tr>
<tr>
<td>4.20.7</td>
<td>Minisilk FT</td>
<td>192</td>
</tr>
<tr>
<td>4.21</td>
<td>Dentsply International, Inc.</td>
<td>192</td>
</tr>
<tr>
<td>4.21.1</td>
<td>Dentsply’s Principal Products</td>
<td>193</td>
</tr>
<tr>
<td>4.21.2</td>
<td>Dentsply’s Research and Development</td>
<td>193</td>
</tr>
<tr>
<td>4.21.3</td>
<td>Dentsply’s Business Performance</td>
<td>194</td>
</tr>
<tr>
<td>4.22</td>
<td>DermaMed International, Inc.</td>
<td>195</td>
</tr>
<tr>
<td>4.22.1</td>
<td>MegaPeel® Microdermabrasion Systems</td>
<td>195</td>
</tr>
<tr>
<td>4.22.2</td>
<td>Quadra Q4™: Intense Pulsed Light Therapy</td>
<td>195</td>
</tr>
<tr>
<td>4.22.3</td>
<td>C-Sculpt</td>
<td>196</td>
</tr>
<tr>
<td>4.23</td>
<td>Dornier MedTech</td>
<td>196</td>
</tr>
<tr>
<td>4.23.1</td>
<td>Compact Delta II</td>
<td>196</td>
</tr>
<tr>
<td>4.23.2</td>
<td>Compact Delta II UIMS</td>
<td>196</td>
</tr>
<tr>
<td>4.23.3</td>
<td>Compact Sigma</td>
<td>197</td>
</tr>
<tr>
<td>4.23.4</td>
<td>Dornier Lithotripter S II</td>
<td>197</td>
</tr>
<tr>
<td>4.23.5</td>
<td>Opus II UIMS</td>
<td>197</td>
</tr>
<tr>
<td>4.23.6</td>
<td>Epos Ultra</td>
<td>198</td>
</tr>
<tr>
<td>4.23.7</td>
<td>Medilas D MultiBeam</td>
<td>198</td>
</tr>
<tr>
<td>4.23.8</td>
<td>Medilas D FlexiPulse</td>
<td>198</td>
</tr>
<tr>
<td>4.23.9</td>
<td>Medilas H 20</td>
<td>199</td>
</tr>
<tr>
<td>4.24</td>
<td>Elemé Medical, Inc.</td>
<td>199</td>
</tr>
<tr>
<td>4.24.1</td>
<td>SmoothShapes XV System</td>
<td>199</td>
</tr>
<tr>
<td>4.24.2</td>
<td>Ellipse® AS</td>
<td>199</td>
</tr>
<tr>
<td>4.24.3</td>
<td>Ellipse Multiflex</td>
<td>200</td>
</tr>
<tr>
<td>4.24.4</td>
<td>New HR-3-Applicator</td>
<td>200</td>
</tr>
<tr>
<td>4.24.5</td>
<td>Ellipse PPL for Hair Removal</td>
<td>200</td>
</tr>
<tr>
<td>4.24.6</td>
<td>Ellipse PPL for Vascular Lesions</td>
<td>200</td>
</tr>
<tr>
<td>4.24.7</td>
<td>Ellipse PPL for Acne</td>
<td>201</td>
</tr>
<tr>
<td>4.24.8</td>
<td>Ellipse PPL for Benign Pigmented Lesions</td>
<td>201</td>
</tr>
<tr>
<td>4.24.9</td>
<td>Ellipse PPL for Photorejuvenation</td>
<td>201</td>
</tr>
<tr>
<td>4.24.10</td>
<td>Nd:YAG technology for Leg Veins</td>
<td>201</td>
</tr>
<tr>
<td>4.25</td>
<td>Energist NA, Inc.</td>
<td>201</td>
</tr>
<tr>
<td>4.25.1</td>
<td>UltraPlus VPL™</td>
<td>202</td>
</tr>
<tr>
<td>4.25.2</td>
<td>iPulse i300</td>
<td>202</td>
</tr>
<tr>
<td>4.25.3</td>
<td>FRx™</td>
<td>202</td>
</tr>
<tr>
<td>4.25.4</td>
<td>i200+ lite</td>
<td>203</td>
</tr>
<tr>
<td>4.25.5</td>
<td>ReGen™</td>
<td>203</td>
</tr>
<tr>
<td>4.26</td>
<td>Estée Lauder™</td>
<td>203</td>
</tr>
<tr>
<td>4.27</td>
<td>Focus Medical</td>
<td>204</td>
</tr>
<tr>
<td>4.27.1</td>
<td>NaturaLase 1064</td>
<td>205</td>
</tr>
<tr>
<td>4.27.2</td>
<td>NaturaLase QS</td>
<td>205</td>
</tr>
<tr>
<td>4.27.3</td>
<td>NaturaLase LP</td>
<td>205</td>
</tr>
<tr>
<td>4.27.4</td>
<td>NaturaLight</td>
<td>206</td>
</tr>
<tr>
<td>4.27.5</td>
<td>NaturaLase Er</td>
<td>206</td>
</tr>
<tr>
<td>4.27.6</td>
<td>NaturaBrador</td>
<td>207</td>
</tr>
<tr>
<td>4.28</td>
<td>General Project (GP) USA</td>
<td>207</td>
</tr>
<tr>
<td>4.28.1</td>
<td>Pix Scan</td>
<td>207</td>
</tr>
<tr>
<td>4.28.2</td>
<td>Med Sculpt</td>
<td>208</td>
</tr>
</tbody>
</table>
4.28.3 Med Flash II 208
4.28.4 Face-Up 208
4.28.5 Ice Touch Compact 209
4.29 HOYA ConBio® 209
4.29.1 DermaSculpt 209
4.29.2 VersaWave® All Tissue Laser 209
4.29.3 VersaWave Specialty 210
4.29.4 DioDent Micro 980® 210
4.29.5 RevLite® EO Q-Switched Laser Technology 210
4.29.6 MedLite® C Series EO Q-Switched Aesthetic Medical Laser 210
4.29.7 The New V-Raser® to Treat Vascular Lesions 211
4.30 Kao Corporation 211
4.30.1 Kao’s Consumer Products Business 211
4.30.2 Kao’s Beauty Care Business 212
4.30.3 Kao’s Prestige Cosmetics 212
4.30.4 Kao’s Premium Skin Care Products 212
4.30.5 Kao’s Premium Hair Care Products 212
4.31 L’Oréal Group 213
4.31.1 L’Oréal’s Research and Innovation 213
4.31.1.1 Anti-Aging Prospects 213
4.31.1.2 Stem Cell Revelations 213
4.31.1.3 Gene Science and Beauty 213
4.31.2 L’Oréal’s Regionalized Research 213
4.31.3 L’Oréal’s Professional Products 214
4.31.4 L’Oréal’s Consumer Products 215
4.31.5 L’Oréal’s Luxury Products 215
4.31.6 L’Oréal’s Active Cosmetics 216
4.31.7 The Body Shop 217
4.31.8 Galderma 217
4.32 LPG Systems SA 218
4.32.1 Cellu M6® 218
4.32.2 Lipo M6® 218
4.33 Lumenis® Ltd. 218
4.33.1 Lumenis’ Aesthetic Business Unit 218
4.33.2 Lumenis’ Aesthetic Product Range 219
4.33.3 Lumenis One™ System 219
4.33.4 LightSheer® 219
4.33.5 M22 219
4.33.6 IPL™ Quantum™ 220
4.33.7 UltraPulse® Fractional CO2 220
4.33.8 Aluma™ 221
4.34 Lutronic, Inc. 221
4.34.1 AccuSculpt™ 221
4.34.2 The eCO2 221
4.34.3 Mosaic CO2™ 222
4.34.4 Spectra™ Laser Platform 222
4.35 Medical Alliance Services 222
4.35.1 Tickle Lipo 222
4.36 Medicis Pharmaceutical Corporation 223
4.36.1 Medicis’ Facial Aesthetic Products 223
4.36.1.1 Dysport™ 223
4.36.1.2 Restylane® and Perlane® 223
4.36.2 Medicis’ Non-Invasive Body Sculpting Technology 223
4.36.2.1 Liposonix™ 223
4.36.3 Medicis’ Prescription Pharmaceuticals for Aesthetic Applications 224
4.36.3.1 Solodyn® 224
4.36.3.2 Triaz® 224
4.36.3.3 Vanos® 224
4.36.3.4 Ziana® Gel 224
4.37 Misonix, Inc. 224
4.37.1 LySonix® 3000 Ultrasound Assisted Lipoplasty System 224
4.38 Nobel Biocare™ 225
4.38.1 Nobel’s Business Performance 225
4.38.1.1 Nobel’s Business in Europe, the Middle East and Africa 226
4.38.1.2 Nobel’s Business in North America 226
4.38.1.3 Nobel’s Business in Asia and Eastern Europe 226
4.38.2 Nobel’s Product Offerings 226
4.38.2.1 NobelReplace™ Tapered 226
4.38.2.2 NobelActive™ 226
4.38.2.3 NobelSpeedy™ 226
4.38.2.4 Bränemark System™ 226
4.38.3 NobelProcera™ Offerings 227
4.38.3.1 Laminates 227
4.38.3.2 Crowns 227
4.38.3.3 Bridges 227
4.38.3.4 Implant-Supported Bridges 227
4.39 Obagi® Medical Products, Inc. 227
4.39.1 Obagi Systems and Related Products 227
4.39.1.1 Obagi Nu-Derm System 228
4.39.1.2 Obagi Condition & Enhance—Surgical and Non-Surgical Cosmetic Procedures 228
4.39.1.3 Obagi-C Rx System 229
4.39.1.4 Obagi Professional-C 229
4.39.1.5 Obagi ELASTIderm 229
4.39.1.6 CLENZIderm M.D.—Acne 229
4.39.1.7 Obagi Rosaclear—Rosacea 229
4.39.1.8 Metronidazole 229
4.39.1.9 Tretinoin 230
4.39.1.10 Obagi Blue Peel 230
4.39.2 Obagi’s Global Business Performance 230
4.39.2.1 Obagi’s Business Performance by Product Category 230
4.39.3 Palomar® Medical Technologies, Inc. 231
4.40 Palomar’s Product Offerings 231
4.40.1 Palomar’s Business by Geography 233
4.40.1.1 Lux Platform 231
4.40.1.2 EsteLux™ 231
4.40.1.3 MediLux 232
4.40.1.4 StarLux 300 232
4.40.1.5 StarLux 500 232
4.40.1.6 Aspire 233
4.40.1.7 Q-YAG 5™ 233
4.40.2 Palomar’s Business by Geography 233
4.40.2.1 Palomar’s Global Business Performance 234
4.41 The Procter & Gamble (P&G) Company 234
4.41.1 Procter & Gamble’s Beauty Business Unit 235
4.41.1.1 Beauty Segment 235
4.41.1.2 Grooming Segment 235
4.42 Quanta System S.p.A 235
4.42.1 Matisse 236
4.42.2 YouLaser CO2 236
4.42.3 Light Series 236
4.42.4 Q-Plus 237
4.42.5 Da Vinci Lipo 237
4.42.6 Domino 237
4.42.7 Duetto M.T. 238
4.42.8 Diode Laser Series 238
4.43 Quantel Derma GmbH 238
4.43.1 LEDA Applicators EPI 808/EPI 980 238
4.43.2 Prolite III 239
4.43.3 The 308 Excimer Systems 239
4.43.4 IDAS 239
4.43.5 Viridis Derma 240
4.43.6 The Sinon Laser System 240
4.43.7 Arion 240
4.43.8 Mydon 241
4.43.9 Aramis 241
4.43.10 Burane 241
4.43.11 Exelo2 242
4.44 Radiancy™ Inc. 242
4.44.1 Radiancy’s Technologies 242
4.44.1.1 LHE Technology 242
4.44.1.2 SHALS Technology for Skin Tightening 242
4.44.1.3 Optimal Pulse Train (OPT) Technology 243
4.44.2 Radiancy’s Phototherapy Products 243
4.44.2.1 Mistral 243
4.44.2.2 Duet Pro 243
4.44.2.3 Kona 244
4.44.2.4 Duet 244
4.44.2.5 SpaTouch II 245
4.44.2.6 SkinStation 245
4.44.3 Radiancy’s LHE MicroPhototherapy 245
4.44.3.1 EpiFree 245
4.44.3.2 Facial Toning Device (FTD) 246
4.44.3.3 ClearTouch Lite (CTL) 246
4.45 Rhonda Allison Clinical Enterprises 246
4.45.1 The Enzyme Trio Facial 246
4.45.2 Retinols 246
4.45.3 Epidermal Growth Factor 247
4.45.4 Bamboo Scrub 247
4.45.5 Bio Reform 28 247
4.46 Sandstone Medical Technologies, LLC 247
4.46.1 Matrix Fractional CO2 248
4.46.2 UltraFine FS 248
4.46.3 UltraLight Q 248
4.46.4 Whisper-ng 249
4.46.5 Apollo-Mini IPL 249
4.46.6 Milesman 250
4.47 Sciton, Inc. 250
4.47.1 ClearScan ALX™ 250
4.47.2 ClearScan YAG™ 250
4.47.3 Contour TRL™ 251
4.47.4 Pro-V™ 251
4.47.5 ProFractional Therapy™ 251
4.47.6 ProLipo Plus™ 252
4.47.7 SkinTyte™ 252
4.47.8 ThermaScan™ 252
4.48 Solta Medical, Inc. 253
4.48.1 Solta’s Medical Solutions 253
4.48.1.1 Fraxel re:store DUAL System 254
4.48.1.2 Fraxel re:store System 255
4.48.1.3 Fraxel re:fine System 255
4.48.1.4 Fraxel re:pair System 255
4.48.1.5 Thermage NXT 255
4.48.1.6 Thermage CPT 255
4.48.2 Solta’s Global Business Performance 255
4.48.3 Solta’s Investment in Research and Development 256
4.48.4 Solta’s Business by Region/Country 256
4.49 Straumann® 257
4.49.1 Market Performance of Straumann’s New Products and Technologies 257
4.49.2 Straumann’s Market Position in Europe 258
4.49.3 Straumann’s Market Position in North America 258
4.49.4 Straumann’s Market Position in the Asia/Pacific Region 259
4.49.5 Straumann’s Products and Solutions 259
4.49.5.1 Straumann’s Regenerative Solutions 259
4.49.5.2 Straumann’s Replacement Solutions 260
4.49.5.3 Straumann’s Restorative Solutions 260
4.49.6 Straumann’s Customers 261
4.49.7 Straumann’s Product Pipeline 261
4.50 Sound Surgical Technologies, LLC 262
4.50.1 The Vaser Lipo System 262
4.50.2 The VentX® Aspiration 263
4.51 Suneva Medical, Inc. 263
4.51.1 Artefill® Dermal Filler 264
4.52 Sybaritic, Inc. 264
4.52.1 Sybaritic’s Product Offerings 264
4.52.1.1 LaserPeel TriMatrixx™ Multi-Platform Er:YAG 264
4.52.1.2 Lumi8 Intense LED Light Facial System 265
4.52.1.3 Alpha 2010™ 265
4.52.1.4 Dermalife™ Spa-Jet™ 2G 266
4.52.1.5 Dermalife Spa-Oceana™ 2G 266
4.52.1.6 Dermalife Spa-Feng Shui™ 2G 266
4.52.1.7 Hydration Station 266
4.52.1.8 SlimLine™ POD Spa Capsule System 267
4.52.1.9 Dermosonic 267
4.53 Syneron Medical Ltd. 267
4.53.1 The Syneron Solution 267
4.53.2 Candela’s Solution 268
4.53.3 Syneron’s Research and Development 269
4.54 Unilever NV 270
4.54.1 Unilever’s Business 270
4.55 Viora 271
4.55.1 Reaction™ 271
4.55.2 Trios™ 271
4.55.3 Infusion™ 272
4.55.4 Pristine™ 272

Appendix 1: Expanding Popularity of Botox Boutiques 273
Appendix 2: Product Innovation and the Dermal Filler Market 274
Appendix 3: ISAPS’s Survey on Plastic Surgery Tourism 275
Appendix 4: ISAPS’s Survey on Financial Trends in Plastic Surgery Practices 276
Appendix 5: Insurance Coverage: A Patient’s Guide 277
Appendix 5.1: Reading One’s Own Policy 277
Figure 3.44: Hair Transplantation by Type of Procedure, 2008  
Figure 3.45: Hair Transplantation Surgical Procedures by Target Recipient Area, 2008  
Figure 3.46: Worldwide Hair Restoration Market Size, 2006-2008  
Figure 3.47: Provisional Estimates of Per Capita Consumption of Cosmetics, 2009  
Figure 3.48: Breakdown of Cosmetics Market by Geographic Zone, 2009  
Figure 3.49: Breakdown of Global Cosmetics Market by Product Category, 2009  
Figure 3.50: Five Major Global Players in the Cosmetics Market, 2009  
Figure 3.51: Global Men’s Skin Care Market by Geographic Zone, 2009  
Figure 3.52: Percentage Share of Cosmetics by Product Type in Spain, 2009  
Figure 3.53: Percentage Market Share of Cosmetics by Product Category, 2009  
Figure 3.54: Share of Skin Care Products in Japan in Comparison with the West, 2009  
Figure 3.55: Brazil’s CT&F Market, 2005-2009  
Figure 3.56: Growth of Cosmetics in Brazil, 2009-2014  
Figure 3.57: Indian Beauty and Cosmetics Market by Product Category, 2008  
Figure 3.58: Destinations of Outbound Medical Tourists (%) from Africa  
Figure 3.59: Destinations of Outbound Medical Tourists (%) from Asia  
Figure 3.60: Destinations of Outbound Medical Tourists (%) from Europe  
Figure 3.61: Destinations of Outbound Medical Tourists (%) from Latin America  
Figure 3.62: Destinations of Outbound Medical Tourists (%) from the Middle East  
Figure 3.63: Destinations of Outbound Medical Tourists (%) from North America  
Figure 3.64: Market for Medical Tourism in India, 2009-2012  
Figure 3.65: Number of Medical Tourists to India, 2009-2012  
Figure 4.1: Allergan’s Investment in R&D, 2005-2009  
Figure 4.2: Allergan’s Overall Business Performance, 2005-2009  
Figure 4.3: Contribution of Botox/Neuromodulator to Allergan’s Business, 2007-2009  
Figure 4.4: Contribution of Skin Care Products to Allergan’s Business, 2007-2009  
Figure 4.5: Contribution of Breast Aesthetics to Allergan’s Business, 2007-2009  
Figure 4.6: Contribution of Facial Aesthetics to Allergan’s Business, 2007-2009  
Figure 4.7: Anika’s Business Performance in Aesthetics, 2007-2009  
Figure 4.8: Avon’s Investment in Research for Product Development, 2007-2009  
Figure 4.9: Avon’s Business Performance, 2005-2009  
Figure 4.10: Biersdorf’s Performance in its Cosmetics Segment, 2006-2009  
Figure 4.11: Biersdorf’s Cosmetics Business in Europe, 2006-2009  
Figure 4.12: Biersdorf’s Cosmetics Business in the Americas, 2006-2009  
Figure 4.13: Biersdorf’s Cosmetics Business in Africa, Asia and Australia, 2006-2009  
Figure 4.14: Cutera’s Investment in R&D, 2005-2009  
Figure 4.15: Cutera’s Business Performance, 2005-2009  
Figure 4.16: Cynosure’s Investment in R&D, 2005-2009  
Figure 4.17: Cynosure’s Business Performance, 2005-2009  
Figure 4.18: Dentsply’s Investment in R&D, 2007-2009  
Figure 4.19: Dentsply’s Business Performance, 2005-2009  
Figure 4.20: Estée Lauder’s Business Performance, 2005-2009  
Figure 4.21: Estée Lauder’s International and U.S. Business (%), 2009  
Figure 4.22: Kao’s Business Performance in its Beauty Care Segment, 2007-2009  
Figure 4.23: Nobel’s Business Performance, 2006-2009  
Figure 4.24: Obagi’s Global Business Performance, 2005-2009  
Figure 4.25: Solta’s Global Business Performance, 2005-2009  
Figure 4.26: Solta’s Investment in R&D, 2005-2009  
Figure 4.27: Solta’s Business Performance by Geography/Country, 2009  
Figure 4.28: Straumann’s Business Performance, 2005-2009  
Figure 4.29: Straumann’s Business Performance by Geographic Region, 2009  
Figure 4.30: Straumann’s Customers by Segment, 2009  
Figure 4.31: Syneron’s Investment in R&D, 2006-2010
INDEX OF TABLES

Table 2.1: Devices for Vascular Applications 29
Table 2.2: Acne Treatment Devices 32
Table 2.3: Dermal Filler Product Comparison Chart 40
Table 2.4: Body Shaping Devices in the Market 43
Table 2.5: Dermabrasion Devices in the Market 44
Table 2.6: Hair Removal Devices 44
Table 3.1: Leading Players in Aesthetic Medical Devices and Their Products, 2009 69
Table 3.2: World Liposuction Statistics, 2009 70
Table 3.3: Cosmetic and Reconstructive Procedure Trends in the U.S., 2000 and 2008-2009 71
Table 3.4: Female Cosmetic Surgery Procedures in the U.S., 2009 76
Table 3.5: Male Cosmetic Surgery Procedures in the U.S., 2009 79
Table 3.6: Average Surgeon Fees for Cosmetic Procedures in the U.S., 2009 82
Table 3.7: Facility Setting Categories for Cosmetic Procedures in the U.S., 2008 and 2009 83
Table 3.8: Ethnic Breakdown of Cosmetic Procedures, 2008 and 2009 84
Table 3.9: Cosmetic Surgery Age Distribution (13-19) in the U.S., 2009 85
Table 3.10: Cosmetic Surgery Age Distribution (20-29) in the U.S., 2009 86
Table 3.11: Cosmetic Surgery Age Distribution (30-39) in the U.S., 2009 87
Table 3.12: Cosmetic Surgery Age Distribution (40-54) in the U.S., 2009 88
Table 3.13: Cosmetic Surgery Age Distribution (55+) in the U.S., 2009 89
Table 3.14: U.S. Adults Who Would Choose Cosmetic Procedures, 2010 90
Table 3.15: Plastic Surgery in the U.K. 91
Table 3.16: Average Plastic Surgery Prices in Europe 94
Table 3.17: ISHRS 2009 Practice Census Results, 2004-2008 106
Table 3.18: Extrapolated Number of Hair Restoration Procedures Worldwide, 2008 107
Table 3.19: Extrapolated Number of Surgical Hair Restoration Patients Worldwide, 2008 108
Table 3.20: Number of Hair Restoration Procedures Worldwide by Recipient Area, 2008 108
Table 3.21: Top Ten Global Cosmetics Markets in 2009 109
Table 3.22: Canadian Imports and Exports of Cosmetics, 2007-2009 114
Table 3.23: European Cosmetics and Toiletries Market by Country, 2009 115
Table 3.24: Leading Cosmetics Retailers in the E.U., 2009 116
Table 3.25: German Market for Beauty and Cosmetics, 2007-2009 116
Table 3.26: Cosmetics and Toiletries Consumption in Italy, 2009 117
Table 3.27: Turkey’s Cosmetics and Personal Care Products Export by Product Type, 2007-2009 120
Table 3.28: Turkey’s Cosmetics and Personal Care Products by Country, 2007-2009 120
Table 3.29: Japan’s Market for Beauty Products, 2009 121
Table 3.30: Brazil’s Trade Balance in Cosmetics, Toiletries and Fragrances, 1999-2009 122
Table 3.31: Brazil’s Exports of Cosmetics, Toiletries and Fragrance, 1998-2009 123
Table 3.32: Export Performance of Cosmetics and Toiletries in Hong Kong, 2007-2009 124
Table 3.33: Hong Kong’s Exports by Major Markets, 2007-2009 124
Table 3.34: Hong Kong’s Exports by Product Category, 2007-2009 124
Table 3.35: International Costs of Surgical Procedures 126
Table 3.36: Cost Comparison of U.S. vs. Foreign Surgical Procedures 126
Table 3.37: Leading U.S.-Based Partnerships for Outbound Medical Tourism 127
Table 3.38: Medical Tourism Pilot Programs within Health Benefits Plan 127
Table 3.39: Foreign Medical Sites Identified by Patients 129
Table 3.40: Medical Tourism Facilitators 130
Table 3.41: Cosmetic Procedure Prices in Brazil 136
Table 3.42: Cosmetic Dentistry Prices in Costa Rica 137
Table 3.43: Plastic Surgery Prices in Costa Rica 137
Table 3.44: Dental Procedure Prices in Hungary 138
Table 3.45: Cosmetic Surgery Procedure Prices in Hungary 139
Table 3.46: Surgical Cosmetic Procedure and Cosmetic Dentistry Prices in Apollo 140
Table 3.47: Apollo Hospital’s Global Medical Tourism Facilitators 141

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Table 3.48: Cost of Cosmetic Surgery in Malaysia 142
Table 3.49: Cost of Cosmetic Surgery in Mexico 143
Table 3.50: Cost of Cosmetic Surgery in Singapore 144
Table 3.51: Cost of Cosmetic Surgery in South Korea 145
Table 3.52: Cost of Cosmetic Surgery in Thailand 146
Table 3.53: Cost of Cosmetic Surgery in Turkey 147
Table 4.1: AEROLASE’s Product Applications 148
Table 4.2: Allergan’s Business Performance in the Different Business Segments, 2007-2009 149
Table 4.3: Allergan’s Product Pipeline 155
Table 4.4: Allergan’s Granted and Pending Approvals, 2009-2010 156
Table 4.5: OMNILIGHTTM FPL’s Specifications 159
Table 4.6: Technical Specifications of NOVALIGHT™ FPL 160
Table 4.7: Technical Specifications of OMNICool 161
Table 4.8: Avon’s Business Performance by Geographic Zone/Country, 2007-2009 169
Table 4.9: Biotitec Group’s Business Performance by Region, 2007-2009 173
Table 4.10: CUTERA’s Product Offering, 2009 180
Table 4.11: CUTERA’s Business Performance by Country/Region, 2007-2009 181
Table 4.12: Cynosure’s Broad Technology Base 184
Table 4.13: Overview of Cynosure’s Products 184
Table 4.14: Cynosure’s Business Performance by Geography, 2007-2009 190
Table 4.15: Locations of DENTSPLY’s Manufacturing and Distribution Centers, 2009 194
Table 4.16: L’ORÉAL’s Regional Research Centers 214
Table 4.17: Consolidated Sales of L’ORÉAL’s Professional Products by Geographic Zone, 2008 and 2009 214
Table 4.18: Consolidated Sales of L’ORÉAL’s Professional Products by Business Segment, 2008 and 2009 214
Table 4.19: Consolidated Sales of L’ORÉAL’s Consumer Products by Geographic Zone, 2008 and 2009 215
Table 4.20: Consolidated Sales of L’ORÉAL’s Consumer Products by Business Segment, 2008 and 2009 215
Table 4.21: Consolidated Sales of L’ORÉAL’s Luxury Products by Geographic Zone, 2008 and 2009 216
Table 4.22: Consolidated Sales of L’ORÉAL’s Luxury Products by Business Segment, 2008 and 2009 216
Table 4.23: Consolidated Sales of L’ORÉAL’s Active Cosmetics by Geographic Zone, 2008 and 2009 216
Table 4.24: Consolidated Sales of L’ORÉAL’s Active Cosmetics by Business Segment, 2008 and 2009 216
Table 4.25: Consolidated Sales of L’ORÉAL’s Body Shop Products by Geographic Zone, 2008 and 2009 217
Table 4.26: Consolidated Sales of L’ORÉAL’s Galderma Products by Geographic Zone, 2008 and 2009 217
Table 4.27: OBAGI Systems and Related Products 228
Table 4.28: OBAGI’s Business Performance by Product Category, 2008 and 2009 231
Table 4.29: Handpiece Treatment Chart 233
Table 4.30: PALOMAR’s Percent Business Performance by Geography, 2007-2009 234
Table 4.31: PALOMAR’s Overall Global Business Performance, 2005-2009 234
Table 4.32: PROCTOR & GAMBLE at a Glance 235
Table 4.33: SOLTA’s Product Offerings 254
Table 4.34: STRAUMANN’s Business Performance by Region, 2008 and 2009 257
Table 4.35: STRAUMANN’s Product Pipeline 262
Table 4.36: Overview of SYNERON’S Products 268
Table 4.37: Overview of CANDELA’S Products 269
Table 4.38: SYNERON’S Business Performance by Geography/Country, 2007-2009 269
Table 4.39: UNILEVER’s Business Performance by Geographic Zone, 2008 and 2009 271
1. Overview

1.1 Statement of Report

Modern advances in plastic surgery have allowed patients with severe physical deformities to live normal lives. Where at one time an individual suffering from an extreme physical abnormality simply had to “live with it,” plastic surgical techniques can now ameliorate or even completely correct the original physical ailment. Beyond addressing serious physical handicaps, plastic surgery for purely cosmetic reasons has exploded around the world. For the purposes of this report, the term “plastic surgery” is divided into two distinct groups: 1) reconstructive surgery focused on restoring normal physical function resulting from an abnormality or injury to the body, and 2) cosmetic surgery focused on simply improving one’s physical appearance. Moreover, this study provides a comprehensive analysis of the trend in medical tourism to seek lower-cost procedures, advances in minimally-invasive surgical techniques that can be performed on an outpatient basis in doctor’s and dentist’s offices, and purchases of over-the-counter beauty products, such as traditional cosmetic make-up and new non-invasive devices marketed to consumers who wish to change their physical appearance without surgery.

The main objectives of this review are:

- Presenting recently-available data on the number of procedures performed for reconstructive and cosmetic surgery.
- Focusing on the various types of medical devices such as lasers, ultrasound devices, implants and dermal fillers available in the global market and their applications in the beauty industry.
- Providing data on the estimated growth of markets in various segments of cosmetic dentistry and beauty products.
- Gaining an insight into the beauty industry and identifying the top market leaders.
- Understanding the price structure for cosmetic surgery procedures in the developed countries and comparing them with the prices offered in the top ten destinations of medical tourism.
- Identifying recent trends in the beauty industry and the gravitation of the industry towards the development of new tools and products to meet changing trends.
- Identifying the total number of companies focusing on plastic surgery products, dental products and OTC cosmetics.

Key questions answered in this study are:

- What is required of plastic surgery practitioners to adjust their practices to suit the changing needs of patients who have become selective in their demands?
- What is the major discernible shift in patients’ demand and which company was the largest beneficiary of this shift?
- What were the aesthetic devices used for body shaping and skin tightening most sought after by consumers?
- What are the largest markets for plastic surgery procedures in the world?
- What different aesthetic medical devices are available in the global market for vascular applications, acne treatment, body shaping, dermabrasion and hair removal?
- What are the global markets for neuromodulators, dermal fillers, skin-tightening and body shaping devices, phototherapy equipments, physician-dispensed cosmeceuticals and skin rejuvenation devices?
- What have been the top reconstructive surgical procedures, cosmetic surgical procedures and minimally-invasive procedures in the U.S.?
- Who are the leading players in the aesthetic devices market?
- What is the global market for breast implants?
- How large is the total global market for beauty products?
- What are the prices for cosmetic procedures in the top ten medical tourism destinations in the world?
This report contains:

- A description of all of the different reconstructive and cosmetic surgery procedures.
- A discussion on the segments of cosmetic dentistry.
- An overview of hair restoration procedures.
- An account of the beauty industry and its segments.
- A discussion on global medical tourism.
- The listing of globally available aesthetic devices used in vascular applications, acne treatment, dermabrasion, hair removal, etc.
- The largest markets for plastic surgery procedures in the world.
- Estimated global markets for neuromodulators, dermal fillers, skin tightening and body shaping devices, phototherapy equipment, physician-dispensed cosmeceuticals and skin rejuvenation devices.
- Profiles of companies engaged in aesthetic, dental, cosmetics and medical tourism.
- Analysis of business performance, research and development (R&D), and product offerings of the various participating companies.

1.2 Scope of the Report

As plastic surgery focuses on the improvement of physical features of individuals, this report also discusses in detail cosmetic dentistry procedures, hair restoration procedures and developments in the cosmetics industry. Moreover, this study provides data on the available plastic surgery procedures in some of the developing countries which are relatively low-priced. A section of this analysis provides information on medical tourism, the top ten medical tourism destinations around the globe and the cost of cosmetic surgery procedures in these host countries. The report also offers profiles of companies with a specific emphasis on their products used in plastic surgery, beauty cosmetics, dental procedures, etc. Additionally, the appendix contains recent information regarding the earning potentials of plastic surgeons in different parts of the world, the emergence of Botox® Boutiques and the influence of celebrities in plastic surgery procedures. Besides providing data on the plastic surgery market in the U.S. and Europe, this study also analyzes the growth of the beauty market in the Asia region. Other TriMark Publications reports related to various other healthcare segments can be found at http://www.trimarkpublications.com.

1.3 Methodology

The author of this report is a retired college professor with more than three decades of teaching experience in biochemistry, pharmacology, biotechnology and cell biology. The detailed study of this review is based mainly on the publications of plastic surgery associations of different regions of the globe. Other information was gleaned from trade association publications and meetings, product brochures and catalogs, and company literature. Where the companies under discussion were publicly held, their annual reports, 10-K filings and financial reports were examined. Important data sources include the American Society for Aesthetic Plastic Surgery (ASAPS), the American Society of Plastic Surgeons (ASPS), the European Society of Plastic Reconstruction and Aesthetic Surgery (ESPRAS), the European Association of Plastic Surgeons (EURAPS), the American Academy of Facial Plastic and Reconstructive Surgery (AAFPRS) and the European Society of Aesthetic Surgery (ESAS). The information set forth in this study was obtained from sources that we believe to be reliable, but we do not guarantee the accuracy, adequacy or completeness of any information, any omission or the results obtained by the use of such information.

Primary Sources

TriMark collects information from hundreds of database tables and many comprehensive multi-client research projects, as well as Sector Snapshots that we publish annually. We extract relevant data and analytics from TriMark’s research as part of this data collection.

Secondary Sources

TriMark uses research publications, journals, magazines, newspapers, newsletters, industry reports, investment research reports, trade and industry association reports, government-affiliated trade releases and other published
information as part of its secondary research materials. The information is then analyzed and translated by the Industry Research Group into a TriMark study. The Editorial Group reviews the complete package with product and market forecasts, critical industry trends, threats and opportunities, competitive strategies, and market share determinations.

**TriMark Publications Report, Research and Data Acquisition Structure**

The general sequence of research and analysis activity prior to the publication of every report in TriMark Publications includes the following items:

- Completing an extensive secondary research effort on an important market sector, including gathering all relevant information from corporate reporting, publicly-available data and proprietary databases.
- Formulating a study outline with the assigned writer, including the following important items:
  - Market and product segment grouping, and evaluating their relative significance.
  - Key competitors’ evaluations, including their relative positions in the business and other relevant facts to prioritize diligence levels and assist in designing a primary research strategy.
  - End-user research to evaluate analytical significance in market estimation.
  - Supply chain research and analysis to identify any factors affecting the market.
  - New technology platforms and cutting-edge applications.
- Identifying the key technology and market trends that drive or affect these markets.
- Assessing the regional significance for each product and market segment for proper emphasis of further regional/national primary and secondary research.
- Completing a confirmatory primary research assessment of the report’s findings with the assistance of expert panel partners from the industry being analyzed.

### 1.4 Executive Summary

This study highlights trends, opportunities and the market for all the different plastic surgery segments such as reconstructive surgery, cosmetic surgery, treatment options, company products for plastic surgery, business performance by leading companies in this sector and sales data of the different plastic surgery products. The current trends among plastic surgery patients confirm the fact that the global recession and the weakened U.S. economy have had a negative impact on both patient spending for plastic surgery procedures and budget allocation by plastic surgeons for devices. However, practitioners voice their optimism within the industry, identifying the areas of consumer needs and adjusting their practices to suit the changing demands of patients for less-expensive and non-invasive plastic surgery procedures. The aesthetic practices continue to enlarge into new treatments and procedures, but patients have become more selective than in years past. In spite of the gloomy economic scenario, about 44% of plastic surgeons still manage to earn more than $1 million per year.

There has been a noticeable shift from surgical cosmetic procedures to non-invasive cosmetic procedures, and the largest beneficiary of this shift is Botox. Thus, Botox is the most popular aesthetic product, followed by other dermal fillers and physician-dispensed topicals. The most popular among the dermal fillers are Juvederm® (Allergan), Restylane® (Medicis), Radiance® (BioForm), Perlane® (Medicis) and Prevelle® (Johnson & Johnson/Mentor). The most popular physician-dispensed topicals prescribed by practitioners are from Obagi, SkinMedica and SkinCeuticals. Fractional skin rejuvenation is another popular procedure among plastic surgery patients, and practitioners use devices such as Fraxel® (Solta Medical), Matrix RF® or Matrix RF® or eMatrix (Syneron®) and Active FX or Deep FX or Total FX (Lumenis). Skin tightening is another popular aesthetic treatment, and the practitioners mostly use such devices as Thermage® (Solta), Accent™ (Alma Lasers) and Titan® (Cutera). The other three commonly-used laser devices in this segment are Aluma (Lumenis), StarLux® (Palomar) and ReFirme™ (Syneron).
Another aesthetic procedure which has gained some ground is body shaping. The devices used most often for body shaping are Thermage, Smartlipo™, Smartlipo MPX™ and Smartlipo Triplex™ from Cynosure. Other devices used commonly were VASER® (Sound Surgical), SlimLipo™ (Palomar) and VelaSmooth™ or VelaShape™ (Syneron).

According to a survey conducted by the American Academy of Cosmetic Surgery (AACS), more than cosmetic procedures were carried out in the U.S. in . The most sought-after procedures, as of , were the eyelid lift, the tummy tuck and nose reshaping surgery. The most sought-after minimally-invasive procedures over the last five years were laser skin resurfacing, injectable fillers and chemical peels. The survey results reveal that the average age of patients for facelifts, eyelid lifts, Botox injections and dermal fillers was , , and , respectively.

According to the British Association of Aesthetic Plastic Surgeons, the U.K. increased % in demand for cosmetic procedures from to and increased % from to . The U.K. plastic surgery industry registered a total market value of $ million by the end of . The major reason for this growth is believed to be the arrival of a number of new products and services that provide effective results with shorter recovery periods. What’s more, prices have generally decreased slightly after several years of increases. On average, the cost for breast enlargements in was about $, and in it was only $. Facelift surgeries cost about $ in and declined to $ in . The average cost of liposuction treatment was about $ in , and declined to $ in .

According to data published by the of the U.K., the minimally-invasive and non-invasive procedures market registered strong growth in , with dermal fillers and chemical peels showing increased growth by % and %, respectively. The year also witnessed an increase in the number of male patients (up %), with “Boytox” (male Botox) and “Sweatox” (anti-sweat Botox) driving the growth. Breast augmentation is the most sought-after surgery, according to the . Statistics provided by the group reveal that the third most common type of post-natal procedure with mothers is breast augmentation. Post-birth surgery now constitutes % of abdominoplasty operations. Another popular procedure with mothers is the breast uplift with post-birth surgery constituting an estimated % of all breast uplifts. As the anticipates a % growth for cosmetic surgery in the U.K., it plans to open eight new clinics in .

While looking into the latest Wall Street analysts’ reports, public company earnings for the first quarter of and the April published by , one is led to believe that the beauty industry has fully resumed its expansion trend. When these two reports are read along with the data published by the ASPSs, it becomes clear that facial injectables have been relatively immune to temporary economic down cycles. Patients consider the cost of treating wrinkles and volume loss with injectables as unavoidable investments in their physical appearance. The facial injectables are simply perceived to be luxury items, just as hair coloring and designer clothing are. The expansion trend is further supported by the emergence of more convenient and less expensive distribution points. Plastic surgeons and physicians’ assistants are developing new business models for offering these treatments to consumers in easily-accessible mall locations, virtually on demand. Indeed, the shift towards less expensive cosmetic treatments is alarming to the dermatologists and plastic surgeons who monopolized the aesthetic procedure market previously.

The lure of revenue from aesthetic procedures and the negative economic pressure from managed healthcare reforms have made new medical providers gravitate towards aesthetic medicine in large numbers. According to Medical Insight, currently there are about aesthetic providers in the U.S. alone. The cosmetic dermatologists who dominated the scene for many years have now become a minority in this fast-changing market. Consumers have gained more freedom of choice and their buying pattern is mainly governed by cost. Now that consumers have more choices, they are in control of the market. Cosmetic patients view cosmetic procedures as commodities, and their disposable income determines the market for cosmetic procedures. While dermatologists continue to add invasive procedures to their offerings, plastic surgeons are expanding their practice to include non-invasive procedures and to compete with provider groups on price and service.