**Covid-19 effect on Otolaryngology Resident Surgical Case Volume: Data Summary**

**All Programs (N=6)**

|  |  |  |  |
| --- | --- | --- | --- |
|  | 3.19-2.20 | 3.20-2.21 | % Decrease |
| All Sites | 36085 | 24968 | 30.80781 |
|  |  |  |  |
| Children's | 4868 | 3954 | 18.77568 |
| County | 2777 | 1781 | 35.86604 |
| VA | 2102 | 1189 | 43.43482 |
| Univeristy | 18876 | 13136 | 30.40898 |

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| **Category** | Procedure | 3.19-2.20 | 3.20-2.21 | %Decrease |
|  |  |  |  |  |
| **H&N** | Parotidectomy | 784 | 492 | 37.24489796 |
|  | Neck Dissection | 1638 | 1089 | 33.51648352 |
|  | Oral Cavity Resection | 560 | 275 | 50.89285714 |
|  | Thyroid/Parathyroidectomy | 1639 | 1265 | 22.81879195 |
|  | **Total** | **4621** | 3121 | **32.46050638** |
|  |  |  |  |  |
| **Otology/Audiology** | Tympanoplasty | 907 | 581 | 35.94266814 |
|  | Mastodiectomy | 979 | 709 | 27.57916241 |
|  | Stapedectomy/Ossiculoplasty | 449 | 285 | 36.52561247 |
|  | total | **2335** | **1575** | **32.54817987** |
|  |  |  |  |  |
| **FPRS** | Rhinoplasty | 833 | 493 | 40.81632653 |
|  | Mandible/Midface Fxs | 646 | 549 | 15.01547988 |
|  | Flaps/Grafts | 2585 | 2124 | 17.83365571 |
|  | **total** | **4064** | **3166** | **22.09645669** |
|  |  |  |  |  |
| **General/Peds** | Airway - peds +adults | \* | \* |  |
|  | Congenital Neck Masses | 368 | 247 | **32.88043478** |
|  | Ethmoidectomy | \* | \* |  |
|  | Bronchoscopy | 503 | 364 | **27.63419483** |
|  | total | **871** | **611** | **29.85074627** |
|  |  |  |  |  |
| **Total** |  | **11891** | **8473** | **28.74442856** |

**University of Colorado**

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| --- | --- | --- | --- | --- |
| **Total Cases by Site** |  | **3.19-2.20** | **3.20-2.21** | **% Decrease** |
|  |  |  |  |  |
| Children's |  | 1156 | 887 | 23.269896 |
| DHMC |  | 990 | 492 | 50.30303 |
| VAMC |  | 750 | 234 | 68.8 |
| University |  | 2352 | 1388 | 40.986395 |
|  |  |  |  |  |
| **Program Total** |  | **5248** | **3006** | **42.721037** |

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| **Key Index Case Summary** | |  |  |  |
|  |  | **3.19-2.20** | **3.20-2.21** | **% Decrease** |
| **Category** | **Procedure** |  |  |  |
|  |  |  |  |  |
| **H&N** | Parotidectomy | 81 | 66 | 18.518519 |
|  | Neck Dissection | 196 | 93 | 52.55102 |
|  | Oral Cavity Resection | 42 | 18 | 57.142857 |
|  | Thyroid/Parathyroidectomy | 159 | 98 | 38.36478 |
|  | Total | **478** | **275** | **42.468619** |
|  |  |  |  |  |
| **Otology/Audiology** | Tympanoplasty | 150 | 88 | 41.333333 |
|  | Mastoidectomy | 187 | 120 | 35.828877 |
|  | Stapedectomy/Ossiculoplasty | 94 | 39 | 58.510638 |
|  | total | **431** | **247** | **42.691415** |
|  |  |  |  |  |
| **FPRS** | Rhinoplasty | 226 | 119 | 47.345133 |
|  | Mandible/Midface Fxs | 149 | 82 | 44.966443 |
|  | Flaps/Grafts | 254 | 196 | 22.834646 |
|  | total | **629** | **397** | **36.883943** |
|  |  |  |  |  |
| **General/Peds** | Airway - peds +adults | \* | \* |  |
|  | Congenital Neck Masses | 55 | 43 | 21.818182 |
|  | Ethmoidectomy | \* | \* |  |
|  | Bronchoscopy | 120 | 91 | 24.166667 |
|  | total | **175** | **134** | 23.428571 |
|  |  |  |  |  |
| **Total** |  | **1713** | **1053** | **38.528897** |

**University of California, San Francisco**

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| **Site Summary** |  | **3.19-2.20** | **3.20-2.21** |  | **% decrease** |
|  |  |  |  |  |  |
|  | Children’s Hospital of Oakland | 384 | 464 |  | -20.83333 |
|  | SF Gen | 499 | 522 |  | -4.609218 |
|  | University | 3694 | 2925 |  | 20.817542 |
|  | VA | 349 | 234 |  | 32.951289 |
|  |  |  |  |  |  |
|  | **All Sites** | **4942** | **4145** |  | **16.127074** |

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| **Key Index Case Summary** |  |  |  |  |  |
|  |  |  |  |  |  |
| **Category** | **Procedure** | **3.19-2.20** | **3.20-2.21** |  | **% decrease** |
|  |  |  |  |  |  |
| **H&N** | Parotidectomy | 109 | 72 |  | 33.944954 |
|  | Neck Dissection | 304 | 229 |  | 24.671053 |
|  | Oral Cavity Resection | 98 | 59 |  | 39.795918 |
|  | Thyroid/Parathyroidectomy | 210 | 150 |  | 28.571429 |
|  | **Total** | **721** | **510** |  | **29.26491** |
|  |  |  |  |  |  |
| **Otology/Audiology** | Tympanoplasty | 108 | 90 |  | 16.666667 |
|  | Mastodiectomy | 113 | 118 |  | -4.424779 |
|  | Stapedectomy/Ossiculoplasty | 60 | 52 |  | 13.333333 |
|  | **total** | **281** | **260** |  | **7.4733096** |
|  |  |  |  |  |  |
| **FPRS** | Rhinoplasty | 111 | 64 |  | 42.342342 |
|  | Mandible/Midface Fxs | 54 | 58 |  | -7.407407 |
|  | Flaps/Grafts | 337 | 309 |  | 8.3086053 |
|  | **total** | **502** | **431** |  | **14.143426** |
|  |  |  |  |  |  |
| **General/Peds** | Airway - peds +adults |  |  |  |  |
|  | Congenital Neck Masses | 59 | 37 |  | 37.288136 |
|  | Ethmoidectomy |  |  |  |  |
|  | Bronchoscopy | 60 | 68 |  | -13.33333 |
|  | **total** | **119** | **105** |  | **11.764706** |
|  |  |  |  |  |  |
| **All** |  | **1623** | **1306** |  | **19.531731** |

**Georgetown University**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Site Summary** |  | **3.19-2.20** | **3.20-2.21** |  | **% decrease** |
|  |  |  |  |  |  |
| Children's |  | 379 | 309 |  | 18.46965699 |
| University |  | 1977 | 1560 |  | 21.09256449 |
| VAMC |  | 510 | 450 |  | 11.76470588 |
| WHC |  | 1108 | 626 |  | 43.50180505 |
|  |  |  |  |  |  |
| **All Sites** |  | **3974** | **2954** |  | **25.66683442** |

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| **Key Index Case Summary** |  |  |  |  |  |
|  |  | **3.19-2.20** | **3.20-2.21** |  | %Decrease |
| **Category** | Procedure |  |  |  |  |
|  |  |  |  |  |  |
| **H&N** | Parotidectomy | 79 | 32 |  | 59.49367089 |
|  | Neck Dissection | 162 | 88 |  | 45.67901235 |
|  | Oral Cavity Resection | 67 | 24 |  | 64.17910448 |
|  | Thyroid/Parathyroidectomy | 236 | 213 |  | 9.745762712 |
|  | **Total** | **544** | **357** |  | **34.375** |
|  |  |  |  |  |  |
| **Otology/Audiology** | Tympanoplasty | 81 | 51 |  | 37.03703704 |
|  | Mastoidectomy | 110 | 69 |  | 37.27272727 |
|  | Stapedectomy/Ossiculoplasty | 30 | 25 |  | 16.66666667 |
|  | total | 221 | 145 |  | 34.38914027 |
|  |  |  |  |  |  |
| **FPRS** | Rhinoplasty | 57 | 16 |  | 71.92982456 |
|  | Mandible/Midface Fxs | 89 | 67 |  | 24.71910112 |
|  | Flaps/Grafts | 163 | 121 |  | 25.76687117 |
|  | **total** | **309** | **204** |  | **33.98058252** |
|  |  |  |  |  |  |
| **General/Peds** | Airway - peds +adults | \* | \* |  | \* |
|  | Congenital Neck Masses | 43 | 23 |  | 46.51162791 |
|  | Ethmoidectomy | \* | \* |  | \* |
|  | Bronchoscopy | 49 | 33 |  | 32.65306122 |
|  | **total** | **92** | **56** |  | **39.13043478** |
|  |  |  |  |  |  |
| **Total** |  | **1166** | **762** |  | **34.6483705** |

**Harvard University:**

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| --- | --- | --- | --- | --- | --- |
| **Total Cases by Site** |  | 3.19-2.20 | 3.20-2.21 |  | % Decrease |
|  |  |  |  |  |  |
| Childrens |  | 375 | 316 |  | 15.733333 |
| MEEI |  | 5286 | 3748 |  | 29.095725 |
| VA |  | \* | \* |  | \* |
| MGH |  | 312 | 272 |  | 12.820513 |
| BWH |  | 585 | 679 |  | -16.06838 |
| Beth Israel |  | 263 | 309 |  | -17.49049 |
|  |  |  |  |  |  |
| **All Sites** |  | **7518** | **5509** |  | **26.722533** |

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| **Key Index Case Summary** |  |  |  |  |  |
| **Category** | Procedure | 3.19-2.20 | 3.20-2.21 |  | %Decrease |
|  |  |  |  |  |  |
| **H&N** | Parotidectomy | 286 | 184 |  | 35.664336 |
|  | Neck Dissection | 484 | 396 |  | 18.181818 |
|  | Oral Cavity Resection | 198 | 99 |  | 50 |
|  | Thyroid/Parathyroidectomy | 404 | 376 |  | 6.9306931 |
|  | **Total** | **1372** | **1055** |  | **23.104956** |
|  |  |  |  |  |  |
| **Otology/Audiology** | Tympanoplasty | 251 | 197 |  | 21.513944 |
|  | Mastodiectomy | 257 | 180 |  | 29.961089 |
|  | Stapedectomy/Ossiculoplasty | 150 | 110 |  | 26.666667 |
|  | total | 658 | 487 |  | 25.987842 |
|  |  |  |  |  |  |
| **FPRS** | Rhinoplasty | 171 | 167 |  | 2.3391813 |
|  | Mandible/Midface Fxs | 79 | 67 |  | 15.189873 |
|  | Flaps/Grafts | 625 | 585 |  | 6.4 |
|  | **total** | **875** | **819** |  | **6.4** |
|  |  |  |  |  |  |
| **General/Peds** | Airway - peds +adults |  |  |  |  |
|  | Congenital Neck Masses | 102 | 72 |  | 29.411765 |
|  | Ethmoidectomy |  |  |  |  |
|  | Bronchoscopy | 145 | 93 |  | 35.862069 |
|  | total | 247 | 165 |  | 33.198381 |
|  |  |  |  |  |  |
| **Total** |  | **3152** | **2526** |  | **19.860406** |

**University of Kansas**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Total Cases by Site** |  | **3.19-2.20** | **3.20-2.21** |  | **% Decrease** |
|  |  |  |  |  |  |
| Children's |  | 1492 | 1066 |  | 28.552279 |
| Truman |  | 180 | 141 |  | 21.666667 |
| VAMC |  | 493 | 271 |  | 45.030426 |
| University |  | 5074 | 3280 |  | 35.356721 |
|  |  |  |  |  |  |
| **Total** |  | **7912** | **5169** |  | **34.668857** |

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| **Key Index Case Summary** |  |  |  |  |  |
| **Category** | **Procedure** | **3.19-2.20** | **3.20-2.21** |  | **% decrease** |
|  |  |  |  |  |  |
| **H&N** | Parotidectomy | 138 | 76 |  | 44.927536 |
|  | Neck Dissection | 255 | 177 |  | 30.588235 |
|  | Oral Cavity Resection | 106 | 52 |  | 50.943396 |
|  | Thyroid/Parathyroidectomy | 254 | 227 |  | 10.629921 |
|  | **Total** | 753 | 532 |  | **29.34927** |
|  |  |  |  |  |  |
| **Otology/Audiology** | Tympanoplasty | 163 | 71 |  | 56.441718 |
|  | Mastodiectomy | 190 | 117 |  | 38.421053 |
|  | Stapedectomy/Ossiculoplasty | 63 | 33 |  | 47.619048 |
|  | **total** | 416 | 221 |  | **46.875** |
|  |  |  |  |  |  |
| **FPRS** | Rhinoplasty | 116 | 70 |  | 39.655172 |
|  | Mandible/Midface Fxs | 93 | 70 |  | 24.731183 |
|  | Flaps/Grafts | 735 | 607 |  | 17.414966 |
|  | **total** | 944 | 747 |  | **20.868644** |
|  |  |  |  |  |  |
| **General/Peds** | Airway - peds +adults | \* | \* |  | \* |
|  | Congenital Neck Masses | 59 | 28 |  | 52.542373 |
|  | Ethmoidectomy | \* | \* |  | \* |
|  | Bronchoscopy | 37 | 21 |  | 43.243243 |
|  | **total** | 96 | 49 |  | **48.958333** |
|  |  |  |  |  |  |
| **Total** |  | **2209** | **1549** |  | **29.877773** |

**Louisiana State University**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Total Cases by Site** |  | **3.19-2.20** | **3.20-2.21** |  | **% Decrease** |
|  |  |  |  |  |  |
| Children's |  | 1082 | 912 |  | 15.711645 |
| Lafayette General |  | 678 | 30 |  | 95.575221 |
| Our Lady |  | 3188 | 2132 |  | 33.124216 |
| University |  | 493 | 235 |  | 52.332657 |
|  |  |  |  |  |  |
| All Sites |  | 6491 | 4185 |  | 35.526113 |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Category** | **Procedure** | **3.19-2.20** | **3.20-2.21** |  | **% decrease** |
|  |  |  |  |  |  |
| **H&N** | Parotidectomy | 91 | 62 |  | 31.868132 |
|  | Neck Dissection | 237 | 106 |  | 55.274262 |
|  | Oral Cavity Resection | 49 | 23 |  | 53.061224 |
|  | Thyroid/Parathyroidectomy | 376 | 201 |  | 46.542553 |
|  | **Total** | **753** | **392** |  | **47.941567** |
|  |  |  |  |  |  |
| **Otology/Audiology** | Tympanoplasty | 154 | 84 |  | 45.454545 |
|  | Mastodiectomy | 122 | 105 |  | 13.934426 |
|  | Stapedectomy/Ossiculoplasty | 52 | 26 |  | 50 |
|  | **total** | **328** | **215** |  | **34.45122** |
|  |  |  |  |  |  |
| **FPRS** | Rhinoplasty | 152 | 57 |  | 62.5 |
|  | Mandible/Midface Fxs | 182 | 205 |  | -12.63736 |
|  | Flaps/Grafts | 471 | 306 |  | 35.031847 |
|  | **total** | **805** | **568** |  | **29.440994** |
|  |  |  |  |  |  |
| **General/Peds** | Airway - peds +adults | \* | \* |  |  |
|  | Congenital Neck Masses | 50 | 44 |  | 12 |
|  | Ethmoidectomy | \* | \* |  |  |
|  | Bronchoscopy | 92 | 58 |  | 36.956522 |
|  | **total** | **142** | **102** |  | **28.169014** |
|  |  |  |  |  |  |
| **Total** |  | **2028** | **1277** |  | **37.031558** |