THESE ARE BEAUTIFUL BUT HAVE TO FIX – CAN”T SUBMIT IMAGES

**Tables:** Data in tables should supplement, not duplicate, information provided in the text. **Tables must be submitted in Excel or Word table format and not as images.** Tables should contain at least 2 columns of data, and should not list qualitative information or single-column numeric data that can be easily described in the Results section. Put tables on separate pages and number them in order of their mention in the text. Provide a brief title for each table, and define any abbreviations in table footnotes. See Permissions for information on adapted/reproduced tables.

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| **Table 1.** *International Classification of Disease, Ninth Revision (ICD-9)***Diagnosis Codes** | | | | | | | | | | | | |
|  |  | | | **High Volume Centers  (>= 5 Cases/Year)**  **Low Volume Centers (< 5 Cases/Year)** | | | | | | | |  |
| Diagnosis | | Malignant neoplasm of nasal cavities  Malignant neoplasm of maxillary sinus  Malignant neoplasm of ethmoid sinus  Malignant neoplasm of frontal sinus  Malignant neoplasm of sphenoid sinus  Malignant neoplasm of other accessory sinus or unspecified | | | | | 160.0  160.2  160.3  160.4  160.5  160.8, 160.9 | | | | |  |
|  |  | | | | | |  |  | |  | | | |
| Procedure | Orbital or Maxillary involvement | | | | | | 16.02, 16.09, 16.51, 16.52, 16.92,22.31, 22.39, 22.62 | | | | |  |
|  | Neck Dissection | | | | | | 40.40, 40.41, 40.42 | | | | |  |
|  | Neurosurgical or Skull base involvement | | | | | | 01.18, 01.24, 01.31, 01.39, 01.51,01.53, 02.02, 02.04, 02.06, 02.12, 04.42, 22.63 | | | | |  |
|  |  | |  | |  | | | |  | |  | |
| Complications | Infectious Complications | | | | | 376.01, 4.610, 486.0, 599.0, 682.0, 99.85 | | | | | |  |
|  | Cardiopulmonary Complication | | | | | 410.71, 410.8, 425.4, 426.11, 426.4, 427.31, 427.5, 427.89, 427.9, 428.0, 427.69, 511.9, 518.0, 518.5, 518.81, 99.71, 99.702, 99.73 | | | | | |  |
|  | Neuropathies | | | | | 352.6, 378.51, 378.52, 378.53, 378.54 | | | | | |  |
|  | Visual Impairment | | | | | 368.84, 368.8, 369.3, 369.60, 369.3, 369.8, 369.00, 369.9, 378.51, | | | | | |  |
|  | Hemorrhage | | | | | 998.11 | | | | | |  |
|  | Electrolyte Abnormalities | | | | | 27.61, 27.52, 27.60, 27.67, 27.68, 27.69 | | | | | |  |
| **Total, n (%)** |  | | |  | | | | | | | |  |  | |

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| **Table 2.** Patient Demographics for Sinonasal Cancer Surgery | | | | | | | | | | | |
|  |  | | **High Volume Centers  (>= 5 Cases/Year)** | | | | **Low Volume Centers (< 5 Cases/Year)** | | | |  |
| Age, mean (SD) | | | 59.8 ± 14.3 | | | | 62.0 ± 17.2 | | | |  |
|  |  | |  | |  | | | |  | | |
| Sex, n (%) | Female | | 424 (40.0) | | | | | 1214 (43.5) | | |  |
|  | Male | | 633 (60.0) | | | | | 1568 (56.2) | | |  |
|  |  |  | |  | | | |  | |  | |
| Race, n (%) | White | | 632 (59.6) | | | | | 1424 (51.1) | | |  |
|  | Black | | 53 (5.0) | | | | | 214 (7.7) | | |  |
|  | Hispanic | | 54 (5.1) | | | | | 163 (5.8) | | |  |
|  | Asian/Pacific Islander | | 30 (2.8) | | | | | 65 (2.3) | | |  |
|  | Native American | | 1 (0.1) | | | | | 9 (0.0) | | |  |
|  | Other or unknown | | 271 (26.0) | | | | | 879 (31.5) | | |  |
|  |  | |  | |  | | | |  | | |  |
| Primary payer, n (%) | Private | | 440 (41.5) | | | | | 1288 (46.2) | | |  |
| Medicaid | | 69 (6.5) | | | | | 214 (7.7) | | |  |
|  | Medicare | | 480 (45.2) | | | | | 1066 (38.2) | | |  |
|  | Self-pay | | 40 (3.8) | | | | | 75 (2.7) | | |  |
|  | Other or unknown | | 27 (2.5) | | | | | 110 (3.9) | | |  |
|  |  | |  | |  | | | |  | | |  |
| **Total, n (%)** |  | | **1061(28.5)** | | | **2789 (71.5)** | | | | |  |

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| **Table 3.** Number of Hospitals, Sinonasal Cancer Surgeries Stratified by Hospital Caseload | | | | | |  |
|  | **1988 to 2009** | | | | |  |
|  | **Hospitals, n (%)** | **Cases (%)** | **Cases with Neck Dissection (%)** | **Cases with Orbital Involvement (%)** | **Cases with  Skull Base Involvement (%)** | **Complicated Cases,  Total (%)** |
| High Volume Hospitals (>5 Cases/Year) | 32 (3.6) | 1061 (28.5) | 79 (32.4) | 106 (44.6) | 128 (43.1) | 277 (38.7) |
| Low Volume Hospitals (<5 Cases/Year) | 847 (96.4) | 2789 (71.5) | 165 (67.6) | 130 (53.4) | 169 (56.9) | 418 (61.3) |
| **Total** | **879 (100)** | **3,850 (100)** | **244 (100)** | **236 (100)** | **297 (100)** | **715 (100)** |
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| **Table 4.** Hospital Characteristics of Admissions for Sinonasal Cancer Surgery | | | | | | | | |
|  | |  | **High Volume Centers  (>= 5 Cases/Year)**a | | | **Low Volume Centers (< 5 Cases/Year)**a | |  |
| Hospital size, n (%)b | Small | | 3 (10.0) | | | 113 (13.6) | | |
| Medium | | 5 (16.7) | | | 254 (30.7) | | |
|  | Large | | 22 (73.3) | | | 461 (55.7) | | |
|  |  | |  |  | | |  | |  |
| Hospital type, n (%) | Teaching | | 27 (90.0) | | | 346 (41.8) | | |
| Non-teaching | | 3 (10.0) | | | 482 (58.2) | | |
|  |  | |  |  | | |  | |  |
| Hospital location, n (%) | Urban | | 29 (96.7) | | | 707 (85.4) | | |
| Non-urban | | 1 (3.3) | | | 121 (14.6) | | |
|  |  | |  |  | |  | | |  |
| Complex Cases,  n (%)c | Neck Dissection | | 79 (7.4) | | | 165 (5.9) | | |  |
| Orbital Involvement | | 106 (10.0) | | | 130 (4.7) | | |  |
| Skull Base Involvement | | 128 (12.0) | | | 169 (6.1) | | |  |
|  | |  |  |  | |  | | |  |
| **Total, n (%)** | |  | **32 (100.0)** | | **847 (100.0)** | | |  |
| Data are cumulative, 1988-2009. aHospital characteristics were not found for 2 high volume hospitals and 19 low volume hospitals.  bHospital size classification is dependent on number of beds and hospital type. For example, for urban, teaching hospitals, “small” signifies < 300 beds and “large” signifies > 500 beds. cPercentage obtained from total number of cases by each subset | | | | | | | | |

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| **Table 5.** Complications of Sinonasal Cancer Surgery | | | | | | | |
|  | **Total** | **High-Volume Centers** | | **Low-Volume Centers** | | | **Pa** |
| Deaths, n (%) | 30 (0.8) | 4 (0.4) | | 26 (0.9) | | 0.122 | |
|  |  |  | |  |  | | |
| Infectious, n (%) |  |  | |  | | 0.119 | |
| Surgical Site Infection | 70 (1.8) | 14 (1.3) | | 56 (2.0) | |  | |
| Urinary Tract Infections (UTIs) | 71 (1.8) | 16 (1.5) | | 55 (2.0) | |  | |
| Pneumonia | 30 (0.8) | 9 (0.8) | | 21 (0.8) | |  | |
| Unspecified Postop Infection | 17 (0.4) | 3 (0.2) | | 14 (0.5) | |  | |
|  |  |  | |  | |  | |
| Cardiopulmonary, n (%) |  |  | |  | | 0.024b | |
| Stroke | 16 ((0.4) | 8 (0.8) | | 8 (0.3) | |
| Cardiac Arrest | 8 (0.2) | 1 (0.1) | | 7 (0.3) | |  | |
| Other Cardiac Complications | 456 (11.8) | 127 (12.0) | | 329 (11.8) | |  | |
| Pulmonary Complications | 239 (6.2) | 87 (8.2) | | 152 (5.4) | |  | |
|  |  |  | |  | |  | |
| Other, n (%) |  |  | |  | |  | |
| Neuropathies  Visual Impairment | 51 (1.3) | 13 (1.2) | | 38 (1.4) | | 0.861 | |
| 76 (2.0) | 20 (1.9) | | 56 (2.0) | | 0.908 | |
| Hemorrhage | 46 (1.2) | 12 (1.1) | | 34 (1.2) | | 0.953 | |
| Electrolyte Abnormalities | 312 (8.1) | 110 (10.4) | | 202 (7.2) | | 0.002b | |
|  |  |  |  | | |  | |
| **Total Complications** | **1392 (36.9)** | 424 (40.0) | | 998 (35.8) | | 0.018b | |
| aChi Square Test Comparing High-Volume and Low-Volume Centers. b P < 0.05 | | | | | | | |