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| **Supplemental Data File 1. Summary of types of surgery (AHRQ-CCS categories) before and after the propensity matching**  |
| **AHRQ-CCS \*** | **Before Matching** | **After Matching #** |
| **Overall****N=37,609** | **NitrousN=16,961** | **Non-NitrousN=20,648** | **Overall****N=21,492** |
|  | (%) | (%) |
| Nephrectomy; partial or complete | 5.2 | 4.8 | 5.6 | 6.9 |
| Spinal fusion | 4.5 | 5.3 | 3.8 | 4.3 |
| Colorectal resection | 4.3 | 2.7 | 5.7 | 4.1 |
| Other OR upper GI therapeutic procedures | 4.1 | 1.6 | 6.1 | 2.6 |
| Hysterectomy; abdominal and vaginal | 4.1 | 4.7 | 3.5 | 4.7 |
| Laminectomy; excision intervertebral disc | 4.1 | 4.9 | 3.4 | 3.8 |
| Open prostatectomy | 3.8 | 2.9 | 4.6 | 4.6 |
| Other OR lower GI therapeutic procedures | 3.4 | 3.4 | 3.4 | 4.5 |
| Other OR gastrointestinal therapeutic procedures | 3.2 | 2.5 | 3.8 | 3.6 |
| Other therapeutic endocrine procedures | 2.9 | 3.1 | 2.8 | 3.4 |
| Incision and excision of CNS | 2.6 | 1.4 | 3.6 | 2.0 |
| Other OR therapeutic nervous system procedures | 2.2 | 2.0 | 2.4 | 2.6 |
| Thyroidectomy; partial or complete | 2.2 | 3.2 | 1.4 | 2.2 |
| Cholecystectomy and common duct exploration | 2.1 | 1.0 | 3.0 | 1.6 |
| Aortic resection; replacement or anastomosis | 2.0 | 0.9 | 2.9 | 1.4 |
| Other OR therapeutic procedures of urinary tract | 1.9 | 1.8 | 2.1 | 2.6 |
| Other hernia repair | 1.7 | 1.3 | 2.1 | 2.0 |
| Other therapeutic procedures on muscles and tendons | 1.7 | 2.6 | 0.9 | 1.7 |
| Other OR therapeutic procedures on nose; mouth and pharynx | 1.7 | 1.9 | 1.5 | 1.9 |
| Other OR therapeutic procedures; female organs | 1.7 | 2.0 | 1.4 | 2.1 |
| **Total** | **59.4** | **54.1** | **63.7** | **62.6** |
| \* 20 most frequent AHRQ-CCS categories are listed # We implemented a 1-to-1 exact match on the AHRQ-CCS category; thus the distribution of CCS categories was exactly same between the nitrous and non-nitrous patients. Abbreviations: AHRQ-CCS= Agency for Healthcare Research and Quality-Clinical Classifications Software; CCS=Clinical Classifications Software; CNS=central nervous system; GI=gastrointestinal; OR=operating room |