**Supplementary Table 1. Diagnoses, Procedures, and Drugs Used to Define Hemorrhoids**

|  |  |
| --- | --- |
| **Code Type** | **Code List** |
| ICD-9-CM Diagnosis | **455.x** |
| ICD-9-CM Procedure | **49.4x** |
| Common Procedural Terminology | **45350, 45398, 46083, 46221, 46250, 46255, 46257, 46258, 46260, 46261, 46262, 46500, 46930, 46934, 46935, 46936, 46945, 46946, 46947** |
| Prescription Medications(brand and generic names) | **Anucort**-HC (hydrocortisone) rectal **Proctofoam** HC rectal**Proctosol** HC rectal **Hydrocortisone acetate** rectal**Analpram**-HC rectal **Proctozone**-HC rectal**lidocaine** topical **Anusol**-HC rectal **Analpram**-HC Singles rectal**hydrocortisone** rectal**hydrocortisone-pramoxine** rectal**Proctocort** rectal **Procto-Med** HC rectal**lidocaine-hydrocortisone** rectal**Procto-Pak** rectal **lidocaine-hydrocortisone** topical**lidocaine-hydrocortisone-aloe vera** rectal**PramCort** rectal C7**Procort** rectal **Ana-Lex Kit** rectal **Ana-Lex** rectal **Hemmorex-HC** rectal |

**Supplementary Table 2. Characteristics of Individuals with Hemorrhoid-Related Claims in the 2014 MarketScan Commercial Claims and Encounters Database, by Setting of Care, Primary and Secondary Diagnoses Only**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Characteristic** | **Individuals with ≥1 Prescription Medication Claim** | **Individuals with ≥1 Physician Claim** | **Individuals with ≥1 Outpatient Facility Claim** | **Individuals with any Hemorrhoid-Related Claim** |
| **N (%)** | **N (%)** | **N (%)** | **N (%)** |
| **Total N (%)** | 119,120 (100) | 296,857 (100) | 139,264 (100) | 408,883 (100) |
| **Age** |   |   |   |   |
| **18-34** | 26,388 (22) | 43,304 (15) | 14,698 (11) | 61,545 (15) |
| **35-44** | 26,034 (22) | 49,952 (17) | 19,094 (14) | 68,643 (17) |
| **45-54** | 34,369 (29) | 101,676 (34) | 53,222 (38) | 138,345 (34) |
| **55-64** | 32,329 (27) | 101,925 (34) | 52,250 (38) | 140,350 (34) |
| **Sex** |   |   |   |   |
| **Male** | 50,915 (43) | 135,238 (46) | 59,881 (43) | 180,589 (44) |
| **Female** | 68,205 (57) | 161,619 (54) | 79,383 (57) | 228,294 (56) |

**Supplementary Table 3. Total Annual Cost of Diagnosed and Treated Hemorrhoids in the 2014 MarketScan Commercial Claims and Encounters Database, by Setting of Care, Primary and Secondary Diagnoses Only**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Individuals with ≥1 Prescription Medication Claim** | **Individuals with ≥1 Physician Claim** | **Individuals with ≥1 Outpatient Facility Claim** | **Individuals with any Hemorrhoid-Related Claim** |
| Total N (%) | 119,120 (29) | 296,857 (73) | 139,264 (34) | 408,883 (100) |
| Diagnostic claims ($, %) | --- | 124,731,292 (36) | 220,256,534 (64) | 344,987,826 (100) |
| Procedure claims ($, %) | --- | 15,326,429 (48) | 16,521,687 (52) | 31,848,116 (100) |
| Total annual cost ($, %) | 14,510,505 (4) | 140,057,721 (36) | 236,778,222 (61) | 391,346,447 (100) |

**Supplementary Table 4. Total Annual Cost of Diagnosed and Treated Hemorrhoids Standardized to the 2014 US Employer-Insured Population, by Setting of Care, Primary and Secondary Diagnoses Only**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Individuals with ≥1 Prescription Medication Claim** | **Individuals with ≥1 Physician Claim** | **Individuals with ≥1 Outpatient Facility Claim** | **Individuals with any Hemorrhoid-Related Claim** |
| Total N (%) | 725,132 (30) | 1,768,454 (72) | 835,380 (34) | 2,451,012 (100) |
| Diagnostic claims ($, %) | --- | 728,520,716 (35) | 1,342,625,532 (65) | 2,071,146,248 (100) |
| Procedure claims ($, %) | --- | 96,141,882 (48) | 103,891,592 (52) | 200,033,474 (100) |
| Total annual cost ($, %) | 87,793,349 (4) | 824,662,598 (35) | 1,446,517,124 (61) | 2,358,973,071 (100) |