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| **Supplementary Table 1: Ambulatory Care Sensitive Conditions and ICD-9-CM Codes** |
| Ambulatory Care Sensitive conditions such as asthma, diabetes or dehydration are hospitalization conditions where timely and effective ambulatory care can decrease hospitalizations by preventing the onset of an illness or condition, controlling an acute episode of an illness or managing a chronic disease or condition. |
| **Ambulatory Care Sensitive Conditions****[and ICD-9-CM Codes]****(By Primary Diagnosis Unless Otherwise Noted)** | **Comments** |
| **Avoidable Conditions** |
| Congenital Syphilis [090] | Secondary diagnosis for newborns only |
| Failure to thrive [783.41] | Age < 1 Year |
| Dental Conditions [521-523,525,528] |  |
| Vaccine Preventable Conditions [032,033,037,041.5,045,052.1, 052.9,055-056,070.0-070.3,072,320.3,390,391,771.0] | Hemophilus meningitis [320.0] for ages 1-5 only |
| Iron Deficiency Anemia [280.1,280.8,280.9] | Primary & Secondary Diagnoses |
| Nutritional Deficiencies [260-262,268.0,268.1] | Primary & Secondary Diagnoses |
| **Acute Conditions** |
| Bacterial Pneumonia [481,482.2,482.3,482.41,482.42,482.9,483,485,486]\* | Excludes cases with secondary diagnosis of sickle cell anemia [282.6] and patients less than 2 months |
| Cellulitis [681,682,683,686] | Excludes cases with a surgical procedure {01-86.99}, except incision of skin and subcutaneous tissue {86.0} where it is the only listed surgical procedure |
| Convulsions [780.3] |  |
| Dehydration  - Volume Depletion  [276.5] | Principal and secondary diagnoses examined separately |
| Gastroenteritis [558.9] |  |
| Hypoglycemia [251.2] |  |
| Kidney/Urinary Infection [590.0,599.0,599.9,595.0,595.9]\*\* |  |
| Pelvic Inflammatory Disease [614] |  |
| Severe Ear, Nose, & Throat Infections [382,462,463,465,472.1] | Excludes otitis media [382] cases with myringotomy with insertion of tube [20.01] |
| Skin Grafts with Cellulitis {DRGs: 263 & 264} | Excludes admissions from SNF/ICF |
| **Chronic Conditions** |
| Angina [411.1,411.8,413] | Excludes cases with a surgical procedure {01-86.99} |
| Asthma [493] |  |
| Chronic Obstructive Pulmonary Disease [466.0,491,492,494,496] | Includes acute bronchitis {466.0} only with secondary diagnosis of 491,492,494,496 |
| Congestive Heart Failure [402.01,402.11,402.91,428,518.4] | Excludes cases with the following surgical procedures: 36.01,36.02,36.05,36.1,37.5 or 37.7 |
| Diabetes [250.0-250.3,250.8-250.9] | Excludes diabetes with renal manifestations [250.4], diabetes with ophthalmic manifestations [250.5], diabetes with neurological manifestations [250.6] and diabetes with peripheral circulatory disorders [250.7] |
| Grand Mal & Other Epileptic Conditions [345] |  |
| Hypertension [401.0,401.9,402.00,402.10,402.90] | Excludes cases with the following procedures: 36.01,36.02,36.05,36.1,37.5 or 37.7 |
| Tuberculosis (Non-Pulmonary) [012-018] |  |
| Pulmonary Tuberculosis [011] |  |
|  **Source**: Institute of Medicine, "Access to Health Care in America", Michael Millman, Ph.D., Editor, National Academy Press, Washington, D.C. 1993. |

\*In addition to the above, we added Bacterial Pneumonia due to MSSA and MRSA as included in AHRQ Prevention Quality Indicators #11 Technical Specifications Bacterial Pneumonia Numerator Definition and acute cystitis and cystitis as included in AHRQ Prevention Quality Indicators # 12 Technical Specifications Urinary Tract Infection Numerator Definition.

\*\*In addition to this list, we added Acute Cystitis and Cystitis as included in AHRQ Prevention Quality Indicators #12 Technical Specifications Urinary Tract Infection Numerator Definition.

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| **Supplementary Table 2. Categories of Ambulatory Care Sensitive Conditions and ICD-9-CM Book Chapters** |
| **Ambulatory Care Sensitive Conditions** | **Definition** |
| 1) All ACSC | All Avoidable, Acute and Chronic Conditions listed in table |
| 2) Bacterial Pneumonia | Bacterial Pneumonia [481,482.2,482.3,482.41,482.42,482.9,483,485,486] |
| 3) Epilepsy/Convulsions | Grand Mal/Other Epileptic Conditions [345] & Convulsions [780.3] |
| 4) Severe ENT | Severe Ear, Nose, & Throat Infections [382,462,463,465,472.1] |
| 5) UTI | Kidney/Urinary Infection [590.0,599.0,599.9,595.0,595.9] |
| 6) Other ACSC | All ACSC Conditions not listed in # 2 - 5 |
| **ICD-9-CM Book Chapters** |   |
| All Circulatory | 390-459 |
| All Digestive | 520-579 |
| All Endocrine | 240-279 |
| All Genitourinary | 580-629 |
| All Ill-Defined | 780-799 |
| All Infections | 001-139 |
| All Mental Health | 290-319 |
| All Musculoskeletal | 710-739 |
| All Nervous System | 320-389 |
| All Respiratory | 460-519 |
| All Skin | 680-709 |

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| **Supplemental Table 3: Unadjusted Rates of Emergency Room and Inpatient Use for Individuals with Muscular Dystrophy** |
| **Entire Cohort** | **Individuals Present during both age periods** | **Males Present During Both Age Periods** |
|   | **Unadjusted Rates by Age** |
| 15-19 yr. olds | 20-24 yr. olds | 15-19 yr. olds | 20-24 yr. olds | 15-19 yr. olds | 20-24 yr. olds |
| **n** | **rate** | **n** | **rate** | **n** | **rate** | **n** | **rate** | **n** | **rate** | **n** | **rate** |
| **Total Visits** |  |  |
| All Visits |   | 565 | 0.65 | 687 | 1.07 | 410 | 0.61 | 660 | 1.09 | 211 | 0.44 | 354 | 0.90 |
| ER |   | 410 | 0.47 | 490 | 0.77 | 310 | 0.46 | 464 | 0.77 | 147 | 0.31 | 205 | 0.52 |
| IP |   | 155 | 0.18 | 197 | 0.31 | 100 | 0.15 | 196 | 0.33 | 64 | 0.13 | 149 | 0.38 |
| **Ambulatory Care Sensitive Conditions** |
| All ACSC | **ER** | 60 | 0.07 | 75 | 0.12 | 40 | 0.06 | 72 | 0.12 | 18 | 0.04 | 42 | 0.11 |
| All ACSC | **IP** | 46 | 0.05 | 46 | 0.07 | 24 | 0.04 | 46 | 0.08 | \* | \* | \* | \* |
| Bacterial Pneumo | **IP** | 28 | 0.03 | 25 | 0.04 | 40 | 0.06 | 72 | 0.12 | \* | \* | \* | \* |
| **ICD-9-CM Book Chapters** |
| All Digestive | **ER** | 30 | 0.03 | 40 | 0.06 | 15 | 0.02 | 39 | 0.07 | \* | \* | \* | \* |
| All GU | **ER** | 39 | 0.05 | 37 | 0.06 | 34 | 0.05 | 36 | 0.06 | \* | \* | \* | \* |
| All Ill-Defined | **ER** | 70 | 0.08 | 123 | 0.19 | 53 | 0.08 | 116 | 0.19 | 33 | 0.07 | 57 | 0.15 |
| All Musculo-skeletal | **ER** | 21 | 0.02 | 31 | 0.05 | 43 | 0.06 | 63 | 0.10 | \* | \* | \* | \* |
| All Respira-tory | **ER** | 59 | 0.07 | 66 | 0.10 | 27 | 0.04 | 63 | 0.10 | 27 | 0.06 | 32 | 0.08 |
| All Respira-tory | **IP** | 50 | 0.06 | 63 | 0.10 | 15 | 0.02 | 39 | 0.07 | 22 | 0.05 | 58 | 0.15 |

***Note: Only results for outcomes with sufficient cell sizes are shown.***

IP = Inpatient; ER = Emergency Room; IRR = Incidence Rate Ratio

\* Indicates insufficient numbers to report.