## Appendix 3. Regression coefficients and significance levels

### Male 1-2 years old

| Variable | Coefficient | P-value |
|---|---|---|
| Intercept | -4.4619 | <.0001 |
| Age at end of 2012 | -0.1783 | 0.013 |
| Number of ER visits labeled as 'C: Critical': 1+ | 0.6582 | 0.3476 |
| Number of ER visits labeled as 'A: Acute': 1 | 0.4812 | 0.0001 |
| Number of ER visits labeled as 'A: Acute': 2+ | 0.6205 | 0.0099 |
| Number of ER visits labeled as 'U: Urgent but could be deferred': 1 | 0.2002 | 0.02 |
| Number of ER visits labeled as 'U: Urgent but could be deferred': 2+ | 0.4258 | <.0001 |
| Number of ER visits labeled as 'N: Not Urgent': 1+ | 0.255 | 0.003 |
| Cancer (specialty visit) | 0.5055 | 0.2369 |
| Cancer (hospital admission) | 1.3543 | 0.013 |
| Cardiovascular (drug use) | 1.5456 | 0.008 |
| Cardiovascular (hospital admission) | 0.3149 | 0.3629 |
| Skin (specialty visit) | -0.0047 | 0.9725 |
| Dental Conditions (hospital admission) | -0.7102 | 0.3781 |
| Endocrine (specialty visit) | 1.3936 | <.0001 |
| Endocrine (hospital admission or drug use) | 0.8038 | 0.0182 |
| Ear, Nose, Throat (specialty visit) | 0.5473 | <.0001 |
| Ear, Nose, Throat (hospital admission) | 0.0494 | 0.839 |
| Eye (hospital admission) | -0.2042 | 0.728 |
| Genetic Conditions (hospital admission) | -0.285 | 0.6631 |
| Gastrointestinal (specialty visit) | 0.3153 | 0.2036 |
| Gastrointestinal (hospital admission with primary diagnosis) | 0.3776 | 0.086 |
| Gastrointestinal (hospital admission with secondary diagnosis) | 0.0525 | 0.8635 |
| Genitourinary (specialty visit) | -0.2778 | 0.3841 |
| Genitourinary (hospital admission) | 0.5299 | 0.0697 |
| Hematological (hospital admission) | 0.7983 | 0.0046 |
| Hepatobiliary (hospital admission) | 0.4004 | 0.5696 |
| Immunologic Disease (hospital admission) | 1.0591 | 0.1003 |
| Infectious Disease (hospital admission) | 0.6027 | 0.0406 |
| Male Genital (hospital admission) | -0.1114 | 0.8129 |
| Musculoskeletal (hospital admission) | 0.3921 | 0.2235 |
| Neurologic Diseases (drug use) | 0.3671 | 0.4453 |
| Neurologic Diseases (hospital admission) | 0.7566 | 0.0106 |
| Nutrition (hospital admission) | -0.0472 | 0.9119 |
| Other Conditions (hospital admission) | 0.8184 | 0.0002 |
| Pediatric medical specialty visit | 0.4803 | 0.0005 |
| Neonatal Conditions (hospital admission) | -0.0838 | 0.8757 |
| Inappropriate Rx | -0.0338 | 0.8686 |
| Psychological (hospital admission) | 0.2778 | 0.5749 |

| | | |
|---|---|---|
| Respiratory (specialty visit) | 0.2825 | 0.4175 |
| Respiratory (drug use) | -0.095 | 0.4871 |
| Respiratory (hospital admission) | 0.3919 | 0.0211 |
| Antibiotics Usage (number of Rx): 1 | 0.0662 | 0.5353 |
| Antibiotics Usage (number of Rx): 2 | 0.2095 | 0.068 |
| Antibiotics Usage (number of Rx): 3+ | 0.447 | <.0001 |
| Skin (hospital admission) | 0.4547 | 0.2407 |
| Pediatric surgical specialty visit | 0.1926 | 0.187 |
| Trauma (hospital admission) | 0.0413 | 0.9339 |
| Other conditions vs healthy newborns | 0.0793 | 0.5959 |
| Abnormal birth weight vs healthy newborns | 0.1125 | 0.2604 |
| Low income (exemption variables from AFT/FED and ASA) | 0.2345 | 0.0045 |
| Disabled (exemption variables from AFT/FED and ASA) | 0.1821 | 0.5097 |
| Immigrants | -0.0417 | 0.6379 |
| Mom: Age at delivery 24 and less | -0.0979 | 0.5097 |
| Mom: Age at delivery 35-39 | 0.0212 | 0.8208 |
| Mom: Age at delivery 40 and over | 0.0234 | 0.8733 |
| Mom: Age at delivery NA | 0.1158 | 0.3462 |
| Mom: First delivery | 0.1875 | 0.0263 |
| Mom: C-section | -0.05 | 0.5649 |
| Mom: Number of hospitalizations 1 year prior to delivery 1 | 0.078 | 0.5319 |
| Mom: Number of hospitalizations 1 year prior to delivery 2+ | 0.264 | 0.2263 |
| Mom: Inappropriate prescription during pregnancy (class D) | 0.2514 | 0.1184 |
| Mom: Inappropriate prescription during pregnancy (class X) | -0.3009 | 0.193 |
| Mom: >=1 Rx for antibiotic during pregnancy | 0.0123 | 0.8801 |
| Mom: Abortion | 0.115 | 0.3047 |
| Mom: Asthma | 0.1245 | 0.1754 |
| Mom: Cardiovascular disease | 0.263 | 0.0161 |
| Mom: Diabetes | 0.0993 | 0.6942 |
| Mom: Infection | -0.3891 | 0.3948 |
| Mom: Psychological condition | 0.00668 | 0.9664 |
| Mom: Bacterial pneumonia | -11.361 | 0.9739 |
| Mom: Hypertension | -11.339 | 0.9689 |

## Male 3-5 years old

| Variable | Coefficient | P-value |
|---|---|---|
| Intercept | -4.3908 | <.0001 |
| Age at end of 2012 | -0.1851 | <.0001 |
| Number of ER visits labeled as 'C: Critical': 1+ | -0.0642 | 0.9443 |
| Number of ER visits labeled as 'A: Acute': 1 | 0.1502 | 0.2516 |
| Number of ER visits labeled as 'A: Acute': 2+ | 0.2391 | 0.4166 |
| Number of ER visits labeled as 'U: Urgent but could be deferred': 1 | 0.1307 | 0.0589 |
| Number of ER visits labeled as 'U: Urgent but could be deferred': 2+ | 0.2037 | 0.0201 |
| Number of ER visits labeled as 'N: Not Urgent': 1+ | 0.0885 | 0.272 |
| Cancer (specialty visit) | -0.8693 | 0.1277 |
| Cancer (hospital admission) | 2.2189 | 0.0003 |
| Cardiovascular (drug use) | 0.453 | 0.4879 |
| Cardiovascular (hospital admission) | -0.2452 | 0.6019 |
| Skin (specialty visit) | 0.0923 | 0.3485 |
| Dental Conditions (hospital admission) | -0.0628 | 0.9371 |
| Endocrine (specialty visit) | -0.6416 | 0.1776 |
| Endocrine (drug use) | -1.1204 | 0.1659 |
| Endocrine (hospital admission) | 0.6101 | 0.2156 |
| Ear, Nose, Throat (specialty visit) | 1.524 | <.0001 |
| Ear, Nose, Throat (hospital admission) | -0.7479 | <.0001 |
| Eye (hospital admission) | -0.7131 | 0.3525 |
| Genetic Conditions (hospital admission) | 0.4159 | 0.5152 |
| Gastrointestinal (specialty visit) | -0.157 | 0.5272 |
| Gastrointestinal (hospital admission with primary diagnosis) | 0.933 | <.0001 |
| Gastrointestinal (hospital admission with secondary diagnosis) | 0.00379 | 0.9928 |
| Genitourinary (specialty visit) | 0.1998 | 0.5642 |
| Genitourinary (hospital admission) | 0.2243 | 0.623 |
| Hematological (hospital admission) | 0.2777 | 0.4688 |
| Hepatobiliary (hospital admission) | 0.015 | 0.9882 |
| Immunologic Disease (hospital admission) | -0.5462 | 0.6782 |
| Infectious Disease (hospital admission) | 0.9351 | 0.0112 |
| Male Genital (hospital admission) | -1.1519 | 0.0347 |
| Musculoskeletal (hospital admission) | -1.1269 | 0.0187 |
| Neurologic Diseases (drug use) | 0.3605 | 0.3631 |
| Neurologic Diseases (hospital admission) | 0.803 | 0.0021 |
| Nutrition (hospital admission) | -0.3288 | 0.4881 |
| Neonatal/other condition (hospital admission) | 0.9366 | <.0001 |
| Pediatric medical specialty visit | 0.1763 | 0.2109 |
| Inappropriate Rx | -0.1163 | 0.3507 |
| Psychological (hospital admission) | -0.1213 | 0.7529 |

| | | |
|---|---|---|
| Respiratory (specialty visit) | 0.6986 | 0.0002 |
| Respiratory (drug use) | -0.0033 | 0.9767 |
| Respiratory (hospital admission) | 0.6469 | 0.001 |
| Antibiotics Usage (number of Rx): 1 | 0.3154 | 0.0009 |
| Antibiotics Usage (number of Rx): 2 | 0.4605 | <.0001 |
| Antibiotics Usage (number of Rx): 3+ | 0.8373 | <.0001 |
| Skin (hospital admission) | -0.8752 | 0.2465 |
| Pediatric surgical specialty visit | 0.1381 | 0.3299 |
| Trauma (hospital admission) | -12.786 | 0.9467 |
| Other conditions vs healthy newborns | 0.0693 | 0.692 |
| Abnormal birth weight vs healthy newborns | -0.1385 | 0.1889 |
| Low income (exemption variables from AFT/FED and ASA) | 0.1382 | 0.0352 |
| Disabled (exemption variables from AFT/FED and ASA) | -0.0398 | 0.8437 |
| Immigrant | -0.1255 | 0.1239 |
| Mom: Age at delivery 24 and less | 0.092 | 0.4172 |
| Mom: Age at delivery 35-39 | -0.0953 | 0.1981 |
| Mom: Age at delivery 40 and over | -0.1726 | 0.1823 |
| Mom: Age at delivery NA | 0.00579 | 0.9547 |
| Mom: First delivery | 0.0862 | 0.2102 |
| Mom: C-section | 0.064 | 0.3488 |
| Mom: Number of hospitalizations 1 year prior to delivery 1 | 0.1719 | 0.0713 |
| Mom: Number of hospitalizations 1 year prior to delivery 2+ | 0.4186 | 0.0092 |
| Mom: Inappropriate prescription during pregnancy (class D) | 0.345 | 0.0015 |
| Mom: Inappropriate prescription during pregnancy (class X) | -0.1565 | 0.4248 |
| Mom: >=1 Rx for antibiotic during pregnancy | 0.0643 | 0.3298 |
| Mom: Abortion | 0.0611 | 0.5114 |
| Mom: Asthma | -0.067 | 0.4507 |
| Mom: Cardiovascular disease | 0.0794 | 0.4534 |
| Mom: Diabetes | 0.2278 | 0.3482 |
| Mom: Infection | -0.3829 | 0.5266 |
| Mom: Psychological condition | 0.0282 | 0.8502 |
| Mom: Hypertension | -12.352 | 0.9701 |
| History: Cancer (hospital admission) | -0.0872 | 0.9335 |
| History: Cardiovascular (hospital admission) | -1.7855 | 0.0597 |
| History: Dental Conditions (hospital admission) | 0.1191 | 0.4171 |
| History: Endocrine (hospital admission) | 0.2455 | 0.4269 |
| History: Ear, Nose, Throat (hospital admission) | 0.2496 | 0.2975 |
| History: Eye (hospital admission) | -0.088 | 0.4598 |
| History: Genetic Conditions (hospital admission) | -0.1924 | 0.5286 |
| History: Gastrointestinal (hospital admission with primary diagnosis) | -0.1531 | 0.6886 |
| History: Gastrointestinal (hospital admission with secondary diagnosis) | 0.2482 | 0.0296 |

| | | |
|---|---|---|
| History: Genitourinary (hospital admission) | -0.0753 | 0.6449 |
| History: Hematological (hospital admission) | -0.2199 | 0.3188 |
| History: Hepatobiliary (hospital admission) | 0.4456 | 0.1529 |
| History: Immunologic Disease (hospital admission) | 0.4059 | 0.3341 |
| History: Infectious Disease (hospital admission) | 0.0303 | 0.8035 |
| History: Male Genital (hospital admission) | -0.263 | 0.2335 |
| History: Musculoskeletal (hospital admission) | -0.4993 | 0.0254 |
| History: Neurologic Diseases (hospital admission) | 0.2836 | 0.1162 |
| History: Nutrition (hospital admission) | 0.4121 | 0.0231 |
| History: Other Conditions (hospital admission) | 0.4624 | 0.0793 |
| History: Neonatal Conditions (hospital admission) | -0.0783 | 0.5494 |
| History: Psychological (hospital admission) | 0.0445 | 0.8625 |
| History: Respiratory (hospital admission) | 0.0854 | 0.3347 |
| History: Skin (hospital admission) | 0.0851 | 0.7052 |
| History: Trauma (hospital admission) | -0.0237 | 0.9288 |
| History: Skin (specialty visit) | 0.1423 | 0.0518 |
| History: Pediatric surgical specialty visit | 0.00376 | 0.9665 |
| History: Gastrointestinal (specialty visit) | 0.2392 | 0.1128 |
| History: Endocrine (specialty visit) | 0.0858 | 0.7584 |
| History: Genitourinary (specialty visit) | 0.1166 | 0.671 |
| History: Cancer (specialty visit) | 0.1478 | 0.6408 |
| History: Ear, Nose, Throat (specialty visit) | 0.5316 | <.0001 |
| History: Pediatric medical specialty visit | 0.0864 | 0.1887 |
| History: Respiratory (specialty visit) | 0.5207 | 0.0064 |
| History: Cardiovascular (drug use) | 0.0362 | 0.9379 |
| History: Respiratory (drug use) | -0.3478 | <.0001 |
| History: Endocrine (drug use) | 0.6752 | 0.3485 |
| History: Neurologic Diseases (drug use) | 0.4141 | 0.334 |
| History: Inappropriate Rx | 0.00895 | 0.9274 |
| History: Antibiotics Usage (number of years history) | 0.0111 | 0.705 |
| History: Number of ER visits labeled as 'C: Critical': 1+ | 0.6068 | 0.0612 |
| History: Number of ER visits labeled as 'A: Acute': 1 | 0.0277 | 0.7708 |
| History: Number of ER visits labeled as 'A: Acute': 2+ | 0.0285 | 0.8146 |
| History: Number of ER visits labeled as 'U: Urgent but could be deferred': 1 | 0.1429 | 0.0952 |
| History: Number of ER visits labeled as 'U: Urgent but could be deferred': 2+ | 0.0699 | 0.337 |
| History: Number of ER visits labeled as 'N: Not Urgent': 1+ | -0.0249 | 0.6872 |

## Male 6-13 years old

| Variable | Coefficient | P-value |
|---|---|---|
| Intercept | -5.0608 | <.0001 |
| Age at end of 2012 | -0.0988 | <.0001 |
| Number of ER visits labeled as 'C: Critical': 1+ | 0.5905 | 0.397 |
| Number of ER visits labeled as 'A: Acute': 1 | 0.254 | 0.09 |
| Number of ER visits labeled as 'A: Acute': 2+ | -0.4226 | 0.3826 |
| Number of ER visits labeled as 'U: Urgent but could be deferred': 1 | 0.1963 | 0.0093 |
| Number of ER visits labeled as 'U: Urgent but could be deferred': 2+ | 0.3353 | 0.002 |
| Number of ER visits labeled as 'N: Not Urgent': 1+ | 0.0694 | 0.4921 |
| Cancer (specialty visit) | 0.0895 | 0.8435 |
| Cancer (hospital admission) | 1.0735 | 0.0669 |
| Cardiovascular (drug use) | -0.0648 | 0.8959 |
| Cardiovascular (hospital admission) | 0.251 | 0.5673 |
| Skin (specialty visit) | -0.1038 | 0.3095 |
| Dental Conditions (hospital admission) | 0.6784 | 0.1429 |
| Endocrine (specialty visit) | 0.5 | 0.0384 |
| Endocrine (drug use) | -0.5023 | 0.4691 |
| Endocrine (hospital admission) | 0.2352 | 0.6721 |
| Ear, Nose, Throat (specialty visit) | 1.3841 | <.0001 |
| Ear, Nose, Throat (hospital admission) | -1.0555 | 0.0003 |
| Eye (hospital admission) | -0.7516 | 0.343 |
| Genetic Conditions (hospital admission) | -0.2224 | 0.7612 |
| Gastrointestinal (specialty visit) | -0.0155 | 0.9528 |
| Gastrointestinal (hospital admission with primary diagnosis) | 1.0092 | 0.0004 |
| Gastrointestinal (hospital admission with secondary diagnosis) | 0.2371 | 0.5723 |
| Genitourinary (specialty visit) | -0.199 | 0.5697 |
| Genitourinary (hospital admission) | 0.9503 | 0.0159 |
| Hematological (hospital admission) | 0.4117 | 0.2535 |
| Hepatobiliary (hospital admission) | -1.0456 | 0.4125 |
| Immunologic Disease (hospital admission) | 0.5324 | 0.6289 |
| Infectious Disease (hospital admission) | 0.7537 | 0.0819 |
| Male Genital (hospital admission) | -0.0609 | 0.8806 |
| Musculoskeletal (hospital admission) | -0.497 | 0.1098 |
| Neurologic Diseases (drug use) | 0.7414 | 0.0279 |
| Neurologic Diseases (hospital admission) | 0.9324 | <.0001 |
| Nutrition (hospital admission) | 0.1509 | 0.7591 |
| Neonatal/other condition (hospital admission) | 0.4672 | 0.1678 |
| Pediatric medical specialty visit | 0.0984 | 0.5306 |
| Inappropriate Rx | 0.3362 | 0.1756 |
| Psychological (hospital admission) | 0.0188 | 0.9642 |

| | | |
|---|---|---|
| Respiratory (specialty visit) | 0.4092 | 0.0829 |
| Respiratory (drug use) | -0.0899 | 0.5566 |
| Respiratory (hospital admission) | 0.6178 | 0.0156 |
| Antibiotics Usage (number of Rx): 1 | 0.1123 | 0.1765 |
| Antibiotics Usage (number of Rx): 2 | 0.2957 | 0.0022 |
| Antibiotics Usage (number of Rx): 3+ | 0.6045 | <.0001 |
| Skin (hospital admission) | 0.3592 | 0.4646 |
| Pediatric surgical specialty visit | -0.2561 | 0.1962 |
| Trauma (hospital admission) | 0.2288 | 0.6719 |
| Low income (exemption variables from AFT/FED and ASA) | 0.1108 | 0.0876 |
| Disabled (exemption variables from AFT/FED and ASA) | 0.0562 | 0.7407 |
| Immigrant | 0.1941 | 0.0171 |
| History: Cancer (hospital admission) | -0.1893 | 0.7004 |
| History: Cardiovascular (hospital admission) | -0.331 | 0.2351 |
| History: Dental Conditions (hospital admission) | 0.0863 | 0.7781 |
| History: Endocrine (hospital admission) | 0.1744 | 0.549 |
| History: Ear, Nose, Throat (hospital admission) | -0.0818 | 0.4303 |
| History: Eye (hospital admission) | -0.0877 | 0.7598 |
| History: Genetic Conditions (hospital admission) | 0.2786 | 0.3979 |
| History: Gastrointestinal (hospital admission with primary diagnosis) | 0.0912 | 0.5373 |
| History: Gastrointestinal (hospital admission with secondary diagnosis) | -0.2858 | 0.2282 |
| History: Genitourinary (hospital admission) | 0.1141 | 0.6252 |
| History: Hematological (hospital admission) | 0.2059 | 0.3073 |
| History: Hepatobiliary (hospital admission) | 0.7768 | 0.0281 |
| History: Immunologic Disease (hospital admission) | -0.7195 | 0.3302 |
| History: Infectious Disease (hospital admission) | 0.1183 | 0.6089 |
| History: Male Genital (hospital admission) | -0.192 | 0.287 |
| History: Musculoskeletal (hospital admission) | 0.1894 | 0.1981 |
| History: Neurologic Diseases (hospital admission) | 0.5886 | 0.0002 |
| History: Nutrition (hospital admission) | 0.2161 | 0.3529 |
| History: Other Conditions (hospital admission) | 0.3105 | 0.2424 |
| History: Neonatal Conditions (hospital admission) | -0.3908 | 0.6064 |
| History: Psychological (hospital admission) | 0.0745 | 0.7265 |
| History: Respiratory (hospital admission) | 0.3742 | 0.0029 |
| History: Skin (hospital admission) | 0.1594 | 0.5364 |
| History: Trauma (hospital admission) | -0.2875 | 0.3379 |
| History: Skin (specialty visit) | 0.00041 | 0.9953 |
| History: Pediatric surgical specialty visit | 0.0781 | 0.3987 |
| History: Gastrointestinal (specialty visit) | -0.1624 | 0.4098 |
| History: Endocrine (specialty visit) | -0.1416 | 0.5324 |
| History: Genitourinary (specialty visit) | 0.1667 | 0.5171 |

| | | |
|---|---|---|
| History: Cancer (specialty visit) | 0.5712 | 0.0242 |
| History: Ear, Nose, Throat (specialty visit) | 0.3662 | <.0001 |
| History: Pediatric medical specialty visit | 0.1406 | 0.0412 |
| History: Respiratory (specialty visit) | 0.2227 | 0.2056 |
| History: Cardiovascular (drug use) | 0.4739 | 0.2013 |
| History: Respiratory (drug use) | -0.1722 | 0.0587 |
| History: Endocrine (drug use) | 0.1974 | 0.7629 |
| History: Neurologic Diseases (drug use) | 0.0465 | 0.8891 |
| History: Inappropriate Rx | -0.0067 | 0.9478 |
| History: Antibiotics Usage (number of years history) | 0.0642 | 0.0063 |
| History: Number of ER visits labeled as 'C: Critical': 1+ | -0.113 | 0.8007 |
| History: Number of ER visits labeled as 'A: Acute': 1 | -0.1029 | 0.3904 |
| History: Number of ER visits labeled as 'A: Acute': 2+ | 0.0835 | 0.5636 |
| History: Number of ER visits labeled as 'U: Urgent but could be deferred': 1 | 0.1123 | 0.1878 |
| History: Number of ER visits labeled as 'U: Urgent but could be deferred': 2+ | 0.1706 | 0.019 |
| History: Number of ER visits labeled as 'N: Not Urgent': 1+ | 0.0356 | 0.6004 |

## Female 1-2 years old

| Variable | Coefficient | P-value |
|---|---|---|
| Intercept | -4.5571 | <.0001 |
| Age at end of 2012 | -0.2066 | 0.0083 |
| Number of ER visits labeled as 'C: Critical': 1+ | 0.9244 | 0.1671 |
| Number of ER visits labeled as 'A: Acute': 1 | 0.1969 | 0.2132 |
| Number of ER visits labeled as 'A: Acute': 2+ | 0.7359 | 0.0083 |
| Number of ER visits labeled as 'U: Urgent but could be deferred': 1 | 0.4261 | <.0001 |
| Number of ER visits labeled as 'U: Urgent but could be deferred': 2+ | 0.4671 | <.0001 |
| Number of ER visits labeled as 'N: Not Urgent': 1+ | 0.0731 | 0.4675 |
| Cancer (specialty visit) | -0.1589 | 0.8328 |
| Cancer (hospital admission) | 2.161 | 0.0004 |
| Cardiovascular (drug use) | 0.5362 | 0.4646 |
| Cardiovascular (hospital admission) | 0.8576 | 0.0182 |
| Skin (specialty visit) | 0.184 | 0.1983 |
| Dental Conditions (hospital admission) | -0.9622 | 0.3726 |
| Endocrine (specialty visit) | -0.3798 | 0.5293 |
| Endocrine (hospital admission or drug use) | 0.3949 | 0.3608 |
| Ear, Nose, Throat (specialty visit) | 0.6081 | 0.0002 |
| Ear, Nose, Throat (hospital admission) | 0.4674 | 0.08 |
| Eye (hospital admission) | 0.431 | 0.4151 |
| Genetic Conditions (hospital admission) | 1.0638 | 0.074 |
| Gastrointestinal (specialty visit) | -0.1407 | 0.6559 |
| Gastrointestinal (hospital admission with primary diagnosis) | 0.3972 | 0.1327 |
| Gastrointestinal (hospital admission with secondary diagnosis) | 0.2011 | 0.5735 |
| Genitourinary (specialty visit) | 0.0847 | 0.8286 |
| Genitourinary (hospital admission) | 0.0645 | 0.891 |
| OB/GYN (hospital admission) | -11.007 | 0.9775 |
| Hematological (hospital admission) | -0.1244 | 0.7917 |
| Hepatobiliary (hospital admission) | -11.698 | 0.9635 |
| Infectious Disease (hospital admission) | 0.5415 | 0.1206 |
| Musculoskeletal (hospital admission) | 0.3153 | 0.3954 |
| Neurologic Diseases (drug use) | 1.9836 | <.0001 |
| Neurologic Diseases (hospital admission) | -0.0008 | 0.9983 |
| Nutrition (hospital admission) | 0.4527 | 0.2304 |
| Other Conditions (hospital admission) | 0.694 | 0.0125 |
| Pediatric medical specialty visit | 0.4988 | 0.0017 |
| Neonatal Conditions (hospital admission) | -0.1669 | 0.7809 |
| Inappropriate Rx | 0.2409 | 0.2714 |
| Psychological (hospital admission) | 0.7913 | 0.1063 |
| Respiratory (specialty visit) | 0.0595 | 0.9006 |

| | | |
|---|---|---|
| Respiratory (drug use) | 0.1825 | 0.2547 |
| Respiratory (hospital admission) | 0.5431 | 0.0032 |
| Antibiotics Usage (number of Rx): 1 | 0.1048 | 0.3403 |
| Antibiotics Usage (number of Rx): 2 | 0.3254 | 0.0059 |
| Antibiotics Usage (number of Rx): 3+ | 0.2723 | 0.0176 |
| Skin (hospital admission) | 0.5242 | 0.2614 |
| Pediatric surgical specialty visit | 0.0184 | 0.9507 |
| Trauma (hospital admission) | -1.3538 | 0.2004 |
| Other conditions vs healthy newborns | 0.3338 | 0.0187 |
| Abnormal birth weight vs healthy newborns | -0.1441 | 0.2722 |
| Low income (exemption variables from AFT/FED and ASA) | 0.1929 | 0.0307 |
| Disabled (exemption variables from AFT/FED and ASA) | 0.2458 | 0.3869 |
| Immigrant | 0.1709 | 0.068 |
| Mom: Age at delivery 24 and less | -0.0148 | 0.9227 |
| Mom: Age at delivery 35-39 | -0.0742 | 0.4664 |
| Mom: Age at delivery 40 and over | -0.1103 | 0.502 |
| Mom: Age at delivery NA | 0.091 | 0.503 |
| Mom: First delivery | 0.2184 | 0.0176 |
| Mom: C-section | 0.1219 | 0.1914 |
| Mom: Number of hospitalizations 1 year prior to delivery 1 | 0.0709 | 0.6003 |
| Mom: Number of hospitalizations 1 year prior to delivery 2+ | 0.2905 | 0.1941 |
| Mom: Inappropriate prescription during pregnancy (class D) | -0.1674 | 0.4037 |
| Mom: Inappropriate prescription during pregnancy (class X) | 0.086 | 0.6881 |
| Mom: >=1 Rx for antibiotic during pregnancy | 0.0725 | 0.4081 |
| Mom: Abortion | 0.1205 | 0.3247 |
| Mom: Asthma | 0.2316 | 0.0176 |
| Mom: Cardiovascular disease | -0.1599 | 0.2254 |
| Mom: Diabetes | 0.4683 | 0.0481 |
| Mom: Infection | 0.4508 | 0.1694 |
| Mom: Psychological condition | 0.3314 | 0.0323 |
| Mom: Bacterial pneumonia | 0.5788 | 0.4408 |
| Mom: Hypertension | 0.6761 | 0.5213 |

## Female 3-5 years old

| Variable | Coefficient | P-value |
|---|---|---|
| Intercept | -4.6056 | <.0001 |
| Age at end of 2012 | -0.2234 | <.0001 |
| Number of ER visits labeled as 'C: Critical': 1+ | 1.5291 | 0.0242 |
| Number of ER visits labeled as 'A: Acute': 1 | 0.2541 | 0.1171 |
| Number of ER visits labeled as 'A: Acute': 2+ | 0.5921 | 0.0611 |
| Number of ER visits labeled as 'U: Urgent but could be deferred': 1 | 0.1159 | 0.1775 |
| Number of ER visits labeled as 'U: Urgent but could be deferred': 2+ | 0.3232 | 0.0037 |
| Number of ER visits labeled as 'N: Not Urgent': 1+ | 0.0931 | 0.3538 |
| Cancer (specialty visit) | -0.7706 | 0.35 |
| Cancer (hospital admission) | -0.1399 | 0.9057 |
| Cardiovascular (drug use) | -0.3416 | 0.7265 |
| Cardiovascular (hospital admission) | 0.4549 | 0.3553 |
| Skin (specialty visit) | -0.1928 | 0.144 |
| Dental Conditions (hospital admission) | 0.3988 | 0.579 |
| Endocrine (specialty visit) | 0.481 | 0.2104 |
| Endocrine (drug use) | 0.1423 | 0.8601 |
| Endocrine (hospital admission) | 0.6761 | 0.1341 |
| Ear, Nose, Throat (specialty visit) | 1.5774 | <.0001 |
| Ear, Nose, Throat (hospital admission) | -0.3541 | 0.1076 |
| Eye (hospital admission) | -0.5433 | 0.5958 |
| Genetic Conditions (hospital admission) | -0.7183 | 0.3049 |
| Gastrointestinal (specialty visit) | -0.1286 | 0.6569 |
| Gastrointestinal (hospital admission with primary diagnosis) | 0.4361 | 0.1608 |
| Gastrointestinal (hospital admission with secondary diagnosis) | -0.1194 | 0.7893 |
| Genitourinary (specialty visit) | -0.5411 | 0.3296 |
| Genitourinary (hospital admission) | 2.1019 | <.0001 |
| OB/GYN (hospital admission) | -12.569 | 0.9572 |
| Hematological (hospital admission) | 0.0931 | 0.8231 |
| Hepatobiliary (hospital admission) | -0.7794 | 0.5574 |
| Immunologic Disease (hospital admission) | -0.6438 | 0.5935 |
| Infectious Disease (hospital admission) | 0.8241 | 0.0627 |
| Musculoskeletal (hospital admission) | 0.1936 | 0.6165 |
| Neurologic Diseases (drug use) | 0.1575 | 0.7742 |
| Neurologic Diseases (hospital admission) | 0.5916 | 0.0909 |
| Nutrition (hospital admission) | 0.7261 | 0.092 |
| Neonatal/other condition (hospital admission) | 0.7359 | 0.024 |
| Pediatric medical specialty visit | 0.1741 | 0.3278 |
| Inappropriate Rx | 0.1276 | 0.415 |
| Psychological (hospital admission) | -0.911 | 0.2026 |

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|---|---|---|
| Respiratory (specialty visit) | 0.7151 | 0.0078 |
| Respiratory (drug use) | -0.2092 | 0.1685 |
| Respiratory (hospital admission) | 0.9109 | <.0001 |
| Antibiotics Usage (number of Rx): 1 | 0.00781 | 0.9441 |
| Antibiotics Usage (number of Rx): 2 | 0.2729 | 0.0175 |
| Antibiotics Usage (number of Rx): 3+ | 0.5587 | <.0001 |
| Skin (hospital admission) | 0.4143 | 0.5171 |
| Pediatric surgical specialty visit | -0.3071 | 0.417 |
| Trauma (hospital admission) | 0.6426 | 0.2586 |
| Other conditions vs healthy newborns | -0.0286 | 0.8313 |
| Abnormal birth weight vs healthy newborns | 0.0403 | 0.8428 |
| Low income (exemption variables from AFT/FED and ASA) | 0.1281 | 0.1019 |
| Disabled (exemption variables from AFT/FED and ASA) | -0.2122 | 0.4469 |
| Immigrant | -0.1857 | 0.058 |
| Mom: Age at delivery 24 and less | 0.4048 | 0.0012 |
| Mom: Age at delivery 35-39 | 0.0281 | 0.7534 |
| Mom: Age at delivery 40 and over | -0.1245 | 0.4175 |
| Mom: Age at delivery NA | 0.3277 | 0.0081 |
| Mom: First delivery | 0.2424 | 0.0043 |
| Mom: C-section | 0.0588 | 0.4802 |
| Mom: Number of hospitalizations 1 year prior to delivery 1 | 0.1992 | 0.0751 |
| Mom: Number of hospitalizations 1 year prior to delivery 2+ | 0.1744 | 0.3781 |
| Mom: Inappropriate prescription during pregnancy (class D) | 0.00365 | 0.9796 |
| Mom: Inappropriate prescription during pregnancy (class X) | -0.18 | 0.4421 |
| Mom: >=1 Rx for antibiotic during pregnancy | 0.1996 | 0.0109 |
| Mom: Abortion | 0.0806 | 0.4681 |
| Mom: Asthma | 0.03 | 0.7731 |
| Mom: Cardiovascular disease | 0.0892 | 0.4937 |
| Mom: Diabetes | 0.3871 | 0.1656 |
| Mom: Infection | 0.0938 | 0.8747 |
| Mom: Psychological condition | 0.1887 | 0.2588 |
| Mom: Bacterial Pneumonia | -1.0059 | 0.468 |
| Mom: Hypertension | 0.9258 | 0.2283 |
| History: Cancer (hospital admission) | -0.7613 | 0.4968 |
| History: Cardiovascular (hospital admission) | -0.1357 | 0.4844 |
| History: Dental Conditions (hospital admission) | -0.0641 | 0.8721 |
| History: Endocrine (hospital admission) | -0.321 | 0.3353 |
| History: Ear, Nose, Throat (hospital admission) | 0.1229 | 0.4029 |
| History: Eye (hospital admission) | -0.0508 | 0.8818 |
| History: Genetic Conditions (hospital admission) | 0.799 | 0.0191 |
| History: Gastrointestinal (hospital admission with primary diagnosis) | 0.1729 | 0.2373 |

| | | |
|---|---|---|
| History: Gastrointestinal (hospital admission with secondary diagnosis) | -0.1618 | 0.4496 |
| History: Genitourinary (hospital admission) | 0.1015 | 0.677 |
| History: OB/GYN (hospital admission) | -0.0352 | 0.9506 |
| History: Hematological (hospital admission) | 0.3412 | 0.1549 |
| History: Hepatobiliary (hospital admission) | 0.5836 | 0.1771 |
| History: Immunologic Disease (hospital admission) | 0.1294 | 0.815 |
| History: Infectious Disease (hospital admission) | -0.3508 | 0.0383 |
| History: Musculoskeletal (hospital admission) | 0.1377 | 0.5135 |
| History: Neurologic Diseases (hospital admission) | 0.1388 | 0.5723 |
| History: Nutrition (hospital admission) | 0.1641 | 0.4831 |
| History: Other Conditions (hospital admission) | 0.6846 | 0.0305 |
| History: Neonatal Conditions (hospital admission) | 0.1031 | 0.5163 |
| History: Psychological (hospital admission) | -0.3948 | 0.2789 |
| History: Respiratory (hospital admission) | 0.2487 | 0.0197 |
| History: Skin (hospital admission) | 0.1305 | 0.5923 |
| History: Trauma (hospital admission) | 0.6773 | 0.0161 |
| History: Skin (specialty visit) | 0.1008 | 0.2576 |
| History: Pediatric surgical specialty visit | -0.1367 | 0.4052 |
| History: Gastrointestinal (specialty visit) | -0.0783 | 0.7024 |
| History: Endocrine (specialty visit) | -0.501 | 0.1488 |
| History: Genitourinary (specialty visit) | -0.4215 | 0.3296 |
| History: Cancer (specialty visit) | 0.1303 | 0.736 |
| History: Ear, Nose, Throat (specialty visit) | 0.5018 | <.0001 |
| History: Pediatric medical specialty visit | 0.0626 | 0.4364 |
| History: Respiratory (specialty visit) | -0.6453 | 0.0757 |
| History: Cardiovascular (drug use) | 0.3177 | 0.5455 |
| History: Respiratory (drug use) | 0.1378 | 0.1819 |
| History: Endocrine (drug use) | 0.1246 | 0.8816 |
| History: Neurologic Diseases (drug use) | 1.0076 | 0.0729 |
| History: Inappropriate Rx | 0.0338 | 0.7872 |
| History: Antibiotics Usage (number of years history) | 0.0117 | 0.7383 |
| History: Number of ER visits labeled as 'C: Critical': 1+ | -0.183 | 0.752 |
| History: Number of ER visits labeled as 'A: Acute': 1 | 0.0778 | 0.5103 |
| History: Number of ER visits labeled as 'A: Acute': 2+ | -0.1193 | 0.4529 |
| History: Number of ER visits labeled as 'U: Urgent but could be deferred': 1 | 0.0555 | 0.5856 |
| History: Number of ER visits labeled as 'U: Urgent but could be deferred': 2+ | 0.1819 | 0.031 |
| History: Number of ER visits labeled as 'N: Not Urgent': 1+ | -0.0098 | 0.8966 |

## Female 6-13 years old

| Variable | Coefficient | P-value |
|---|---|---|
| Intercept | -5.8784 | <.0001 |
| Age at end of 2012 | -0.0548 | 0.0008 |
| Number of ER visits labeled as 'C: Critical': 1+ | 0.5528 | 0.4286 |
| Number of ER visits labeled as 'A: Acute': 1 | 0.5618 | 0.0007 |
| Number of ER visits labeled as 'A: Acute': 2+ | 0.8879 | 0.0091 |
| Number of ER visits labeled as 'U: Urgent but could be deferred': 1 | 0.2361 | 0.0074 |
| Number of ER visits labeled as 'U: Urgent but could be deferred': 2+ | 0.5049 | <.0001 |
| Number of ER visits labeled as 'N: Not Urgent': 1+ | 0.0593 | 0.6033 |
| Cancer (specialty visit) | 0.8804 | 0.0421 |
| Cancer (hospital admission) | 1.9472 | 0.0019 |
| Cardiovascular (drug use) | 0.0531 | 0.9215 |
| Cardiovascular (hospital admission) | -0.1109 | 0.8265 |
| Skin (specialty visit) | -0.0202 | 0.8567 |
| Dental Conditions (hospital admission) | -0.789 | 0.2343 |
| Endocrine (specialty visit) | -0.4513 | 0.0949 |
| Endocrine (drug use) | 0.1639 | 0.7554 |
| Endocrine (hospital admission) | 0.1729 | 0.6192 |
| Ear, Nose, Throat (specialty visit) | 1.5421 | <.0001 |
| Ear, Nose, Throat (hospital admission) | -0.467 | 0.0722 |
| Eye (hospital admission) | -0.3721 | 0.604 |
| Genetic Conditions (hospital admission) | 1.3712 | 0.0286 |
| Gastrointestinal (specialty visit) | -0.4065 | 0.1273 |
| Gastrointestinal (hospital admission with primary diagnosis) | 0.5999 | 0.045 |
| Gastrointestinal (hospital admission with secondary diagnosis) | 0.8453 | 0.0224 |
| Genitourinary (specialty visit) | 0.0925 | 0.8232 |
| Genitourinary (hospital admission) | -0.0319 | 0.9572 |
| OB/GYN (hospital admission) | -10.576 | 0.9463 |
| Hematological (hospital admission) | -0.0211 | 0.9641 |
| Hepatobiliary (hospital admission) | 0.3693 | 0.6164 |
| Immunologic Disease (hospital admission) | 0.5725 | 0.4888 |
| Infectious Disease (hospital admission) | 0.1486 | 0.7992 |
| Musculoskeletal (hospital admission) | -0.6102 | 0.0649 |
| Neurologic Diseases (drug use) | 0.6316 | 0.1157 |
| Neurologic Diseases (hospital admission) | 1.327 | <.0001 |
| Nutrition (hospital admission) | 0.3239 | 0.5243 |
| Neonatal/other condition (hospital admission) | 0.2169 | 0.614 |
| Pediatric medical specialty visit | 0.3156 | 0.0413 |
| Inappropriate Rx | -0.1339 | 0.7061 |
| Psychological (hospital admission) | -0.4714 | 0.344 |

| | | |
|---|---|---|
| Respiratory (specialty visit) | 0.0964 | 0.7649 |
| Respiratory (drug use) | -0.0021 | 0.9908 |
| Respiratory (hospital admission) | 0.3228 | 0.2791 |
| Antibiotics Usage (number of Rx): 1 | 0.2231 | 0.0191 |
| Antibiotics Usage (number of Rx): 2 | 0.5496 | <.0001 |
| Antibiotics Usage (number of Rx): 3+ | 0.7316 | <.0001 |
| Skin (hospital admission) | -0.4769 | 0.5205 |
| Pediatric surgical specialty visit | 0.163 | 0.6316 |
| Trauma (hospital admission) | 0.6965 | 0.2614 |
| Low income (exemption variables from AFT/FED and ASA) | 0.2506 | 0.0006 |
| Disabled (exemption variables from AFT/FED and ASA) | 0.3811 | 0.0453 |
| Immigrant | 0.0669 | 0.4837 |
| History: Cancer (hospital admission) | -1.2579 | 0.0794 |
| History: Cardiovascular (hospital admission) | -0.5369 | 0.0971 |
| History: Dental Conditions (hospital admission) | 0.6569 | 0.0201 |
| History: Endocrine (hospital admission) | -0.0114 | 0.9665 |
| History: Ear, Nose, Throat (hospital admission) | 0.1263 | 0.2948 |
| History: Eye (hospital admission) | 0.1505 | 0.5917 |
| History: Genetic Conditions (hospital admission) | -0.2005 | 0.6414 |
| History: Gastrointestinal (hospital admission with primary diagnosis) | 0.32 | 0.0332 |
| History: Gastrointestinal (hospital admission with secondary diagnosis) | 0.0424 | 0.8574 |
| History: Genitourinary (hospital admission) | -0.0075 | 0.9806 |
| History: OB/GYN (hospital admission) | 0.9705 | 0.0427 |
| History: Hematological (hospital admission) | 0.3297 | 0.1683 |
| History: Hepatobiliary (hospital admission) | 0.1931 | 0.7029 |
| History: Immunologic Disease (hospital admission) | 0.469 | 0.2754 |
| History: Infectious Disease (hospital admission) | 0.0864 | 0.7466 |
| History: Musculoskeletal (hospital admission) | 0.3058 | 0.0805 |
| History: Neurologic Diseases (hospital admission) | 0.2079 | 0.3002 |
| History: Nutrition (hospital admission) | -0.1424 | 0.6003 |
| History: Other Conditions (hospital admission) | -1.1015 | 0.0258 |
| History: Neonatal Conditions (hospital admission) | -0.054 | 0.9358 |
| History: Psychological (hospital admission) | 0.2273 | 0.3797 |
| History: Respiratory (hospital admission) | 0.0871 | 0.5762 |
| History: Skin (hospital admission) | 0.0572 | 0.8443 |
| History: Trauma (hospital admission) | 0.4149 | 0.1635 |
| History: Skin (specialty visit) | -0.135 | 0.0878 |
| History: Pediatric surgical specialty visit | 0.011 | 0.9465 |
| History: Gastrointestinal (specialty visit) | 0.4319 | 0.0093 |
| History: Endocrine (specialty visit) | 0.4559 | 0.0118 |
| History: Genitourinary (specialty visit) | -0.1484 | 0.6694 |

| | | |
|---|---|---|
| History: Cancer (specialty visit) | -0.2097 | 0.604 |
| History: Ear, Nose, Throat (specialty visit) | 0.3035 | <.0001 |
| History: Pediatric medical specialty visit | 0.00862 | 0.9143 |
| History: Respiratory (specialty visit) | -0.0033 | 0.9886 |
| History: Cardiovascular (drug use) | 0.7729 | 0.0742 |
| History: Respiratory (drug use) | 0.1033 | 0.3109 |
| History: Endocrine (drug use) | 0.3977 | 0.453 |
| History: Neurologic Diseases (drug use) | 0.1549 | 0.7028 |
| History: Inappropriate Rx | 0.1035 | 0.3876 |
| History: Antibiotics Usage (number of years history) | 0.0952 | 0.0004 |
| History: Number of ER visits labeled as 'C: Critical': 1+ | 0.7989 | 0.0396 |
| History: Number of ER visits labeled as 'A: Acute': 1 | -0.1075 | 0.451 |
| History: Number of ER visits labeled as 'A: Acute': 2+ | 0.3286 | 0.043 |
| History: Number of ER visits labeled as 'U: Urgent but could be deferred': 1 | 0.2086 | 0.0248 |
| History: Number of ER visits labeled as 'U: Urgent but could be deferred': 2+ | 0.1974 | 0.0158 |
| History: Number of ER visits labeled as 'N: Not Urgent': 1+ | -0.0564 | 0.4744 |