

Table S6. Coefficients of predictors selected by LASSO for PNS dysfunction

| PNS dysfunction outcome | | Coef. |
|-----------------------------------|-----------------------|------------|
| Constant | | |
| *Intercept | | -4.7918029 |
| Metronidazole Exposure | | 0.0912643 |
| Phenytoin Exposure | | -0.2564142 |
| Mental Health Disorders | | -0.0830216 |
| # Inpatient Days | | 0.0659431 |
| # ED Visits | | 0.060253 |
| Charlson Comorbidity Index | | 0.1279128 |
| Dementia | | 0.3711456 |
| Stroke | | -0.1662187 |
| Diabetes | | 0.2453477 |
| Gabapentinoid Exposure | | 0.1645673 |
| Epilepsy | | -0.0479229 |
| Hereditary PN | | 0.5144643 |
| Hypertension | | 0.321849 |
| Insomnia | | 0.1465199 |
| Indication | | |
| 2 | | -0.0503061 |
| 3 | | -0.1942029 |
| 4 | | 2.133703 |
| Age Category | | |
| 25 | | -0.0028973 |
| 30 | | 0.1337322 |
| 35 | | 0.3474091 |
| 40 | | 0.3338626 |
| 45 | | 0.4785721 |
| 50 | | 0.6613369 |
| 55 | | 0.8248896 |
| 60 | | 0.8372001 |
| 65 | | 1.212267 |
| 70 | | 1.264535 |
| 75 | | 1.80567 |
| 80 | | 2.196905 |
| 85 | | 2.856673 |
| Interactions | | |
| Age Category | Sex (1=Female) | |
| 18 | 1 | -0.1727004 |
| 25 | 1 | 0.1783646 |
| 30 | 1 | 0.2765737 |
| 35 | 1 | 0.210227 |

| | | | |
|---------------------|-------------------|--|------------|
| 40 | 1 | | 0.2959805 |
| 45 | 1 | | 0.1954881 |
| 50 | 1 | | 0.2169594 |
| 55 | 1 | | 0.1642654 |
| 60 | 1 | | 0.1692708 |
| 65 | 1 | | 0.1061249 |
| 70 | 1 | | 0.1974131 |
| 75 | 1 | | 0.1451344 |
| 80 | 1 | | 0.0738419 |
| 85 | 1 | | -0.2369339 |
| Age Category | Indication | | |
| 25 | 2 | | 0.2446507 |
| 25 | 3 | | 0.0071945 |
| 25 | 4 | | -1.067722 |
| 30 | 2 | | 0.0117703 |
| 30 | 3 | | 0.0622802 |
| 30 | 4 | | -2.094464 |
| 35 | 2 | | -0.144731 |
| 35 | 3 | | 0.1188468 |
| 35 | 4 | | -1.952139 |
| 40 | 2 | | -0.0496499 |
| 40 | 3 | | 0.0262304 |
| 40 | 4 | | -1.615595 |
| 45 | 2 | | -0.1424522 |
| 45 | 3 | | 0.0994243 |
| 45 | 4 | | -2.361082 |
| 50 | 2 | | -0.2102819 |
| 50 | 3 | | -0.1825039 |
| 50 | 4 | | -2.35773 |
| 55 | 2 | | -0.2199588 |
| 55 | 3 | | -0.2465176 |
| 55 | 4 | | -1.999354 |
| 60 | 2 | | -0.2911984 |
| 60 | 3 | | -0.0427871 |
| 60 | 4 | | -1.980006 |
| 65 | 2 | | -0.1956955 |
| 65 | 3 | | -0.0185131 |
| 65 | 4 | | -1.916567 |
| 70 | 2 | | -0.3348591 |
| 70 | 3 | | -0.1157429 |
| 70 | 4 | | -1.715964 |
| 75 | 2 | | -0.4208901 |
| 75 | 3 | | -0.2322659 |
| 75 | 4 | | -2.019296 |
| 80 | 2 | | -0.3651341 |
| 80 | 3 | | -0.1476341 |
| 80 | 4 | | -2.067915 |

| | | | |
|----|---|--|------------|
| 85 | 2 | | 0.1546536 |
| 85 | 3 | | -0.1503424 |
| 85 | 4 | | -1.771149 |

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|---------------------|----------------------|--|--|
| Age Category | Hereditary PN | | |
|---------------------|----------------------|--|--|

| | | | |
|----|---|--|-----------|
| 18 | 1 | | 0.3537349 |
| 30 | 1 | | 0.877817 |
| 35 | 1 | | 1.097156 |
| 40 | 1 | | 0.3056529 |
| 45 | 1 | | 0.7290611 |
| 50 | 1 | | 1.403087 |
| 55 | 1 | | 0.1979299 |
| 60 | 1 | | 0.5161948 |
| 65 | 1 | | 0.1310691 |
| 70 | 1 | | 0.05923 |
| 75 | 1 | | 0.2763384 |
| 80 | 1 | | 0.0063185 |

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|---------------------|--------------------------|--|--|
| Age Category | Renal Dysfunction | | |
|---------------------|--------------------------|--|--|

| | | | |
|----|---|--|------------|
| 18 | 1 | | -1.001335 |
| 25 | 1 | | -0.6138124 |
| 30 | 1 | | -0.3347394 |
| 35 | 1 | | -0.5897266 |
| 40 | 1 | | -0.1402257 |
| 45 | 1 | | 0.1675946 |
| 50 | 1 | | 0.1318481 |
| 55 | 1 | | -0.090361 |
| 60 | 1 | | -0.0108349 |
| 65 | 1 | | 0.4606576 |
| 70 | 1 | | 0.1265542 |
| 75 | 1 | | 0.2769577 |
| 80 | 1 | | 0.0398203 |
| 85 | 1 | | 0.0801606 |

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|---------------------|-----------------|--|--|
| Age Category | Epilepsy | | |
|---------------------|-----------------|--|--|

| | | | |
|----|---|--|------------|
| 18 | 1 | | 1.859602 |
| 25 | 1 | | 1.096732 |
| 30 | 1 | | 0.0676267 |
| 35 | 1 | | -0.8938112 |
| 40 | 1 | | 0.4035849 |
| 45 | 1 | | 0.3718379 |
| 50 | 1 | | 0.149533 |
| 55 | 1 | | 0.5540408 |
| 60 | 1 | | 0.8395675 |
| 65 | 1 | | 0.1960773 |
| 70 | 1 | | 1.213789 |
| 75 | 1 | | -0.4375048 |
| 80 | 1 | | 0.6891875 |

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|---------------------|------------------------|--|--|
| Age Category | Statin Exposure | | |
|---------------------|------------------------|--|--|

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|----|---|--|-----------|
| 18 | 1 | | 0.4151991 |
|----|---|--|-----------|

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|----|---|--|------------|
| 25 | 1 | | 0.5557384 |
| 30 | 1 | | 0.6385895 |
| 35 | 1 | | 0.2655655 |
| 40 | 1 | | 0.1643078 |
| 45 | 1 | | 0.0866492 |
| 50 | 1 | | 0.045425 |
| 55 | 1 | | -0.0660254 |
| 60 | 1 | | 0.0142228 |
| 65 | 1 | | -0.1247943 |
| 70 | 1 | | 0.0085008 |
| 75 | 1 | | -0.0396314 |
| 80 | 1 | | -0.0739181 |
| 85 | 1 | | -0.289962 |

Age Category Isoniazid Exposure

| | | | |
|----|---|--|------------|
| 45 | 1 | | 0.6181614 |
| 50 | 1 | | -28.77126 |
| 60 | 1 | | -14.37132 |
| 65 | 1 | | -0.4383995 |
| 80 | 1 | | -29.8228 |

Chemotherapy Medication

Age Category Exposure

| | | | |
|----|---|--|------------|
| 55 | 1 | | -0.4562857 |
| 60 | 1 | | 0.9856527 |
| 65 | 1 | | -0.0055866 |
| 70 | 1 | | 1.36953 |
| 75 | 1 | | 0.6816182 |
| 80 | 1 | | -1.564914 |

Age Category Gabapentinoid Exposure

| | | | |
|----|---|--|-----------|
| 18 | 1 | | 1.226702 |
| 25 | 1 | | 1.45944 |
| 30 | 1 | | 0.9779658 |
| 35 | 1 | | 1.46277 |
| 40 | 1 | | 0.8079173 |
| 45 | 1 | | 0.9321295 |
| 50 | 1 | | 0.8935127 |
| 55 | 1 | | 0.8881662 |
| 60 | 1 | | 0.7533793 |
| 65 | 1 | | 0.6474076 |
| 70 | 1 | | 0.6319616 |
| 75 | 1 | | 0.2216106 |
| 80 | 1 | | 0.2987137 |

Age Category Diabetes

| | | | |
|----|---|--|------------|
| 18 | 1 | | 0.4398972 |
| 25 | 1 | | -0.2087312 |
| 30 | 1 | | -0.1945345 |
| 35 | 1 | | -0.2692436 |
| 40 | 1 | | -0.0601902 |

| | | | |
|----|---|--|------------|
| 45 | 1 | | 0.0152577 |
| 50 | 1 | | 0.063579 |
| 55 | 1 | | -0.0604083 |
| 60 | 1 | | 0.0418839 |
| 65 | 1 | | 0.0657819 |
| 70 | 1 | | -0.0217228 |
| 75 | 1 | | -0.0872069 |
| 80 | 1 | | -0.313444 |

Age Category Stroke

| | | | |
|----|---|--|-----------|
| 30 | 1 | | 1.041582 |
| 35 | 1 | | 0.8457775 |
| 40 | 1 | | 2.50089 |
| 45 | 1 | | 0.6065686 |
| 50 | 1 | | 0.6339311 |
| 55 | 1 | | 1.239585 |
| 60 | 1 | | 0.2831106 |
| 65 | 1 | | 0.5479039 |
| 70 | 1 | | 0.2476348 |
| 75 | 1 | | 0.4093041 |
| 80 | 1 | | 0.2107284 |

Age Category Dementia

| | | | |
|----|---|--|------------|
| 40 | 1 | | -0.3760991 |
| 45 | 1 | | 0.5958871 |
| 50 | 1 | | -1.285925 |
| 55 | 1 | | 1.161234 |
| 60 | 1 | | 0.6008547 |
| 65 | 1 | | -0.1163032 |
| 70 | 1 | | 0.4255374 |
| 75 | 1 | | -0.0115783 |
| 80 | 1 | | -0.1362014 |

Age Category Charlson Comorbidity Index

| | | | |
|----|--|--|------------|
| 25 | | | 0.2192378 |
| 30 | | | 0.0754885 |
| 35 | | | -0.0320799 |
| 40 | | | 0.05322 |
| 45 | | | 0.0176048 |
| 50 | | | -0.0213322 |
| 55 | | | 0.0029925 |
| 60 | | | -0.0208402 |
| 65 | | | -0.0229139 |
| 70 | | | -0.025218 |
| 75 | | | -0.0569317 |
| 80 | | | -0.0452538 |
| 85 | | | -0.0723765 |

Age Category # ED Visits

| | | | |
|----|--|--|------------|
| 25 | | | -0.0194676 |
|----|--|--|------------|

| | | |
|----|--|------------|
| 30 | | -0.0188726 |
| 35 | | -0.0069597 |
| 40 | | -0.0267855 |
| 45 | | -0.0261174 |
| 50 | | -0.0072996 |
| 55 | | -0.0333099 |
| 60 | | -0.0068249 |
| 65 | | 0.0105425 |
| 70 | | 0.0424577 |
| 75 | | 0.1302335 |
| 80 | | 0.0637824 |
| 85 | | 0.0420158 |

| | |
|---------------------|-------------------------|
| Age Category | # Inpatient Days |
|---------------------|-------------------------|

| | | |
|----|--|------------|
| 25 | | -0.0311291 |
| 30 | | -0.0041435 |
| 35 | | -0.0246977 |
| 40 | | -0.035352 |
| 45 | | -0.015625 |
| 50 | | -0.0187095 |
| 55 | | -0.016029 |
| 60 | | -0.0043483 |
| 65 | | -0.0289895 |
| 70 | | -0.049382 |
| 75 | | -0.0473181 |
| 80 | | -0.0603406 |
| 85 | | -0.0645874 |

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|---------------------|--------------------------------|
| Age Category | Mental Health Disorders |
|---------------------|--------------------------------|

| | | |
|----|--|-----------|
| 18 | | 0.4158151 |
| 25 | | 1.586051 |
| 30 | | 0.8935544 |
| 35 | | 0.4562002 |
| 40 | | 0.8007917 |
| 45 | | 1.218024 |
| 50 | | 0.8188586 |
| 55 | | 0.4066218 |
| 60 | | 0.4515922 |
| 65 | | 1.307706 |
| 70 | | 0.6548365 |
| 75 | | 0.2380784 |
| 80 | | 0.4695647 |

| | |
|---------------------|---------------------------|
| Age Category | Phenytoin Exposure |
|---------------------|---------------------------|

| | | |
|----|--|-----------|
| 18 | | -0.575707 |
| 30 | | 0.7789125 |
| 35 | | 0.0660032 |
| 45 | | 0.0863986 |
| 50 | | 0.7608089 |
| 55 | | 0.288464 |

| | | | |
|----|---|--|-----------|
| 60 | 1 | | 0.9340832 |
| 65 | 1 | | 0.6497176 |
| 70 | 1 | | 0.4286211 |
| 75 | 1 | | 0.7758093 |
| 80 | 1 | | 0.7530551 |

Age Category Nitrofurantoin Exposure

| | | | |
|----|---|--|------------|
| 18 | 1 | | -0.1000471 |
| 25 | 1 | | 0.0663248 |
| 30 | 1 | | 0.0474288 |
| 35 | 1 | | -0.0118643 |
| 40 | 1 | | 0.1365365 |
| 45 | 1 | | 0.1544904 |
| 50 | 1 | | 0.1431529 |
| 55 | 1 | | -0.1283828 |
| 60 | 1 | | 0.0875501 |
| 65 | 1 | | -0.1453462 |
| 70 | 1 | | 0.1508454 |
| 75 | 1 | | -0.1779837 |
| 80 | 1 | | -0.1346568 |
| 85 | 1 | | -0.2582031 |

Age Category Metronidazole Exposure

| | | | |
|----|---|--|------------|
| 18 | 1 | | 0.189325 |
| 25 | 1 | | -0.2409994 |
| 30 | 1 | | 0.3206923 |
| 35 | 1 | | 0.2518357 |
| 40 | 1 | | 0.0540478 |
| 45 | 1 | | 0.0678693 |
| 50 | 1 | | -0.0815572 |
| 55 | 1 | | 0.2718215 |
| 60 | 1 | | 0.2854717 |
| 65 | 1 | | -0.0839449 |
| 70 | 1 | | -0.1873089 |
| 75 | 1 | | -0.0889823 |
| 80 | 1 | | 0.1186152 |

Age Category Hypertension

| | | | |
|----|---|--|------------|
| 18 | 1 | | 0.2411729 |
| 25 | 1 | | 0.1577122 |
| 30 | 1 | | -0.0989444 |
| 35 | 1 | | -0.0757414 |
| 40 | 1 | | -0.1901566 |
| 45 | 1 | | -0.0275189 |
| 50 | 1 | | -0.059833 |
| 55 | 1 | | -0.0745335 |
| 60 | 1 | | -0.0782938 |
| 65 | 1 | | -0.2360365 |
| 70 | 1 | | -0.0987675 |
| 75 | 1 | | -0.2177094 |

| | | |
|---------------------|-----------------------------------|------------|
| 80 | 1 | -0.0714604 |
| Age Category | Insomnia | |
| 18 | 1 | 0.6421527 |
| 25 | 1 | 0.0168505 |
| 30 | 1 | 0.181946 |
| 35 | 1 | 0.1593457 |
| 40 | 1 | 0.3537174 |
| 45 | 1 | 0.1168282 |
| 50 | 1 | 0.4112547 |
| 55 | 1 | 0.0518645 |
| 60 | 1 | 0.0619791 |
| 65 | 1 | -0.019844 |
| 70 | 1 | -0.1050316 |
| 75 | 1 | 0.0042288 |
| 80 | 1 | 0.0118668 |
| Sex | Indication | |
| 1 | 1 | -0.0311461 |
| 1 | 2 | 0.0869115 |
| 1 | 3 | 0.0708069 |
| Sex | Renal Dysfunction | |
| 0 | 1 | -0.1066404 |
| Sex | Epilepsy | |
| 0 | 1 | 0.2582889 |
| Sex | Isoniazid Exposure | |
| 0 | 1 | 28.63331 |
| Sex | Diabetes | |
| 0 | 1 | 0.0906074 |
| Sex | Stroke | |
| 0 | 1 | 0.2441171 |
| Sex | Dementia | |
| 0 | 1 | 0.0239476 |
| Sex | Charlson Comorbidity Index | |
| 1 | | 0.0238355 |
| Sex | Mental Health Disorders | |
| 0 | 1 | -0.2956756 |
| Sex | Nitrofurantoin Exposure | |
| 0 | 1 | 0.1285578 |
| Sex | Hypertension | |
| 0 | 1 | -0.0792468 |

Predicted Probability=
$$\frac{e^{(\beta_0 + \beta_1 X_1 + \beta_2 X_2 + \dots)}}{1 + e^{(\beta_0 + \beta_1 X_1 + \beta_2 X_2 + \dots)}}$$

Sex: 1=female, 0=male; Indication: 1=uncomplicated UTI, 2=acute bacterial sinusitis, 3=acute bronchitis, 4=acute bacterial exacerbation of chronic bronchitis; For all other binary predictors: 1=condition/medication present, 0=condition/medication absent

*Intercept adjusted to account for randomly sampled controls (described in methods section under "study design") by adding the log odds of being a case in original data to the intercept found from logistic regression

Abbreviations: CNS=central nervous system; coef=coefficient; ED=emergency department; PN=peripheral neuropathy