|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Health Outcome | Age | Education | Race | Smoking | Heavy Alcohol Use | Region | BMI Category | Interaction terms |
| Any cancer | X | X | X | X | X |  | X | Age\*Race; Age\*BMI; Race\*BMI |
| Cardiovascular disease | X | X | X | X |  | X | X | Education\*Race |
| Diabetes/pre-diabetes | X | X | X | X | X |  | X | Age\*BMI; Education\*BMI; Race\*BMI |
| Hypertension in 2+visits | X | X | X | X | X | X | X | Age\*Race; Age\*Smoking; Age\*BMI; Education\*Race; Smoking\*BMI; Industry\*Age |
| Moderate Hearing Lossto Deaf | X | X | X | X |  |  | X | Age\*BMI; Education\*Race |
| Any lung condition | X | X | X | X | X | X | X | Age\*Alcohol; Education\*Race; Race\*Region; Race\*BMI;  |
| Function limitationfrom hypertension\* | X | X |  | X | X |  | X | Age\*Alcohol |
| Current asthma | X | X | X |  |  | X | X | Race\*Region; Race\*BMI |
| Has vision problems | X | X | X | X | X |  | X | Age\*Race |
| Lower back pain(3 mth) | X | X | X | X | X | X | X | Age\*Race; Age\*Smoking; Smoking\*BMI |
| Leg pain from lowerback pain (3 mth) | X | X |  | X |  |  | X | Smoking\*BMI |
| Neck pain (3 mth)\*\* | X | X | X | X | X | X | X | Age\*Education; Age\*Smoking; Education\*Race |
| Joint pain (30 d) | X | X | X | X | X |  | X | Age\*Race; Age\*Smoking; Education\*Race; Race\*Smoking; Race\*Alcohol; Smoking\*BMI |

**Supplemental Table I (Table SI).** Poisson model predictor variables used to produce adjusted prevalence ratios, by health condition. Industry is the primary predictor in each model, all other predictors are considered adjustment variables—from the National Health Interview Survey (NHIS), 2007‒2018.

\*Binary age in this model was categorized as a binary 65+ and < 65 variable for better fit.

\*\*Age modeled as continuous variable for better fit.

**Supplemental Table II (Table S2).** Adjusted\* weighted prevalence ratios for construction workers by health condition, stratified by insurance coverage and healthcare visit within the past 12 months—from the National Health Interview Survey (NHIS), 2007‒2018.

|  |  |  |  |
| --- | --- | --- | --- |
| Health Outcome  | Unstratified APR\*(95% CI) | Insurance Coverage | Interval Since Last Healthcare Visit |
| No Coverage | Coverage | 12+ Months | <12 Months |
| APR\*(95% CI) | APR\*(95% CI) | APR\*(95% CI) | APR\*(95% CI) |
| Any cancer | 0.85(0.74-0.96) | 0.96 (0.66-1.40) | 0.88 (0.76-1.01) | 1.04 (0.71-1.52) | 0.88 (0.77-1.01) |
| Cardiovascular disease\*\* | 0.82(0.74-0.89) | 0.79†(0.64-0.97) | 0.84† (0.76-0.93) | 0.89 (0.71-1.12) | 0.85† (0.77-0.95) |
| Diabetes/pre-diabetes | 0.81(0.74-0.89) | 0.64† (0.52-0.79) | 0.91 (0.82-1.00) | 0.75 (0.53-1.06) | 0.88† (0.80-0.97) |
| Hypertension in 2+ Visits (55+) | 0.88(0.82-0.94) | 0.98 (0.86-1.11) | 0.94† (0.89-0.99) | 1.04 (0.89-1.22) | 0.96 (0.91-1.01) |
| Any lung condition[‡](https://en.wikipedia.org/wiki/Section_sign) | 0.88(0.80-0.96) | 0.82† (0.67-0.99) | 0.91 (0.81-1.01) | 0.91 (0.73-1.13) | 0.90 (0.81-1.00) |
| Current asthma | 0.86(0.77-0.97) | 0.79 (0.61-1.02) | 0.91 (0.80-1.04) | 0.81 (0.62-1.05) | 0.91 (0.80-1.04) |

Abbreviations: CI, confidence interval (weighted).

**\***Adjusted model: see Table S2 for model parameters by health condition.

\*\*Cardiovascular disease variable aggregated from “ever told had heart attack,” “ever told had coronary heart disease,” “ever told had heart condition,” and “ever told had angina.”

†p < 0.05.
[‡](https://en.wikipedia.org/wiki/Section_sign)Any lung condition variable aggregated from “functionally limiting lung/breathing problem,” “activity limiting lung/breathing problem,” “still has asthma,” “ever told had emphysema,” and “told had chronic bronchitis, past 12 months.”