Logit Regression Results

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Dep. Variable: Cancer No. Observations: 220632

Model: Logit Df Residuals: 220622

Method: MLE Df Model: 9

Date: Tue, 29 Jul 2025 Pseudo R-squ.: 0.04498

Time: 11:42:49 Log-Likelihood: -35798.

converged: True LL-Null: -37484.

Covariance Type: nonrobust LLR p-value: 0.000

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coef std err z P>|z| [0.025 0.975]

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const -3.9059 0.042 -93.792 0.000 -3.987 -3.824

Age 0.0004 0.001 0.617 0.537 -0.001 0.001

Smoker 1.2910 0.023 55.115 0.000 1.245 1.337

Passive\_Smoker 0.0264 0.024 1.120 0.263 -0.020 0.073

Family\_History -0.0290 0.031 -0.941 0.347 -0.089 0.031

Air\_Pollution\_Exposure 0.0045 0.015 0.293 0.770 -0.026 0.035

Occupational\_Exposure 0.0357 0.024 1.515 0.130 -0.010 0.082

Indoor\_Pollution -0.0236 0.026 -0.907 0.364 -0.074 0.027

Healthcare\_Access 0.0174 0.029 0.600 0.548 -0.039 0.074

Early\_Detection 0.0130 0.026 0.503 0.615 -0.038 0.064

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勝算比（Odds Ratios）:

const 0.020124

Age 1.000352

Smoker 3.636496

Passive Smoker 1.026797

Family History 0.971398

Air Pollution Exposure 1.004505

Occupational Exposure 1.036297

Indoor Pollution 0.976711

Healthcare Access 1.017538

Early Detection 1.013089

Dtype: float64