

Model Status

Poisson GLM
Loaded

XGBoost Loaded

Enter Input Parameters

Year

2021

Sex

Female

ICD10 Diagnosis

All circulatory

Admissions Count

5000

Total Prescriptions

250

Smoking Prevalence (%)

20.48

Tobacco Price Index

120.00

">\$ Hybrid Smoking-Related Fatalities Predictor

This app automatically selects the best model depending on the ICD10 Diagnosis type:

- 💬 Poisson GLM Model → used for All respiratory diseases , All cancers , All circulatory diseases .
- 🔥 XGBoost Regression Model → used for all other diagnosis categories.

Input Summary

	Year	Sex	ICD10 Diagnosis	admissions_count	prescriptions_total	smok_prev	Tobac
0	2021	Female	All circulatory diseases	5000	250	20.48	

🚀 Predict Fatalities

⚡ Predicted Fatalities: 48,155 (Poisson GLM)

Model-Based Visualization

🔍 Sensitivity of Poisson GLM to Smoking & Admissions

