

Seasonality in the incidence of acute sinusitis, air pollutant levels, and climate



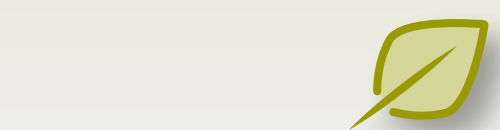
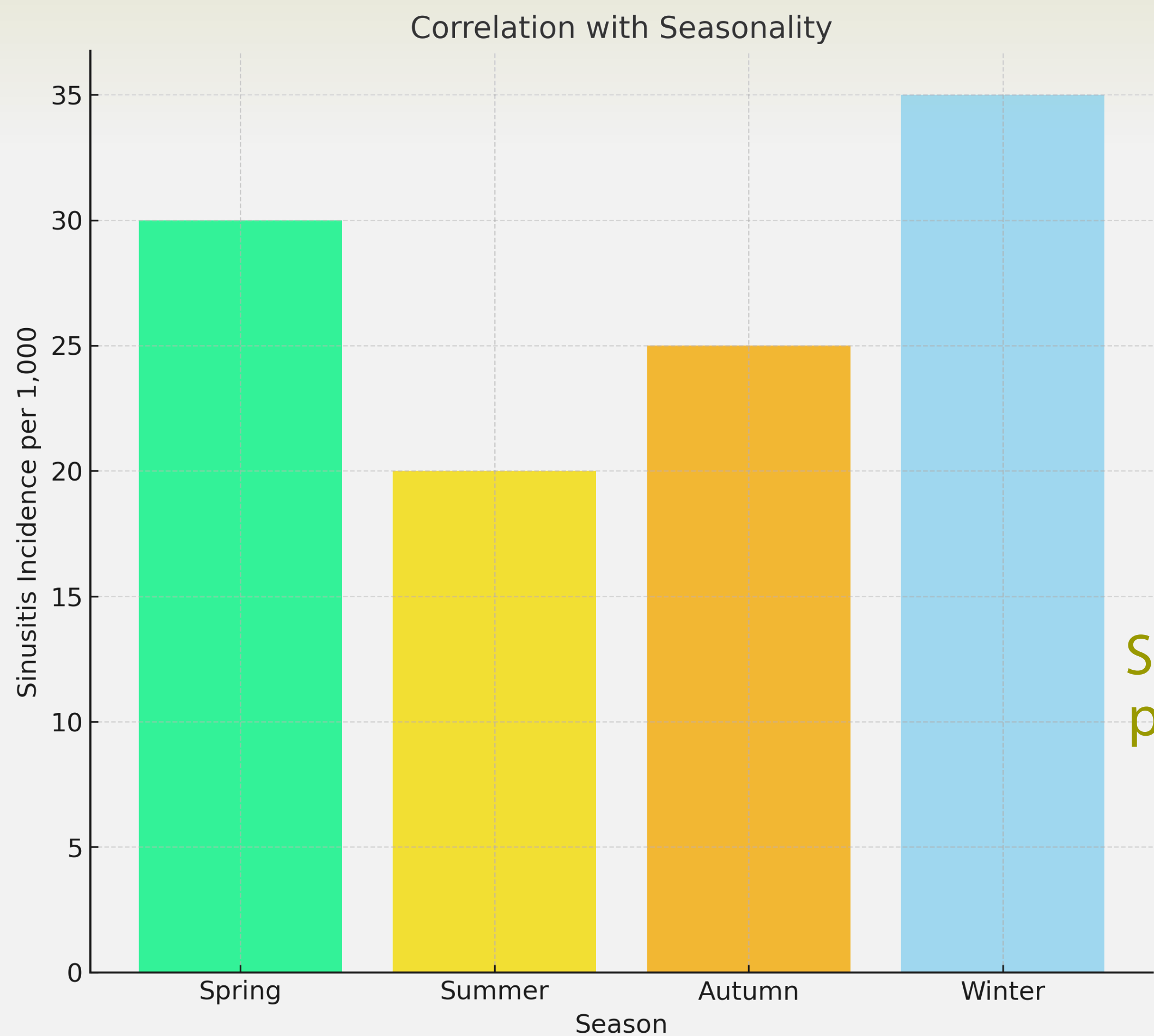
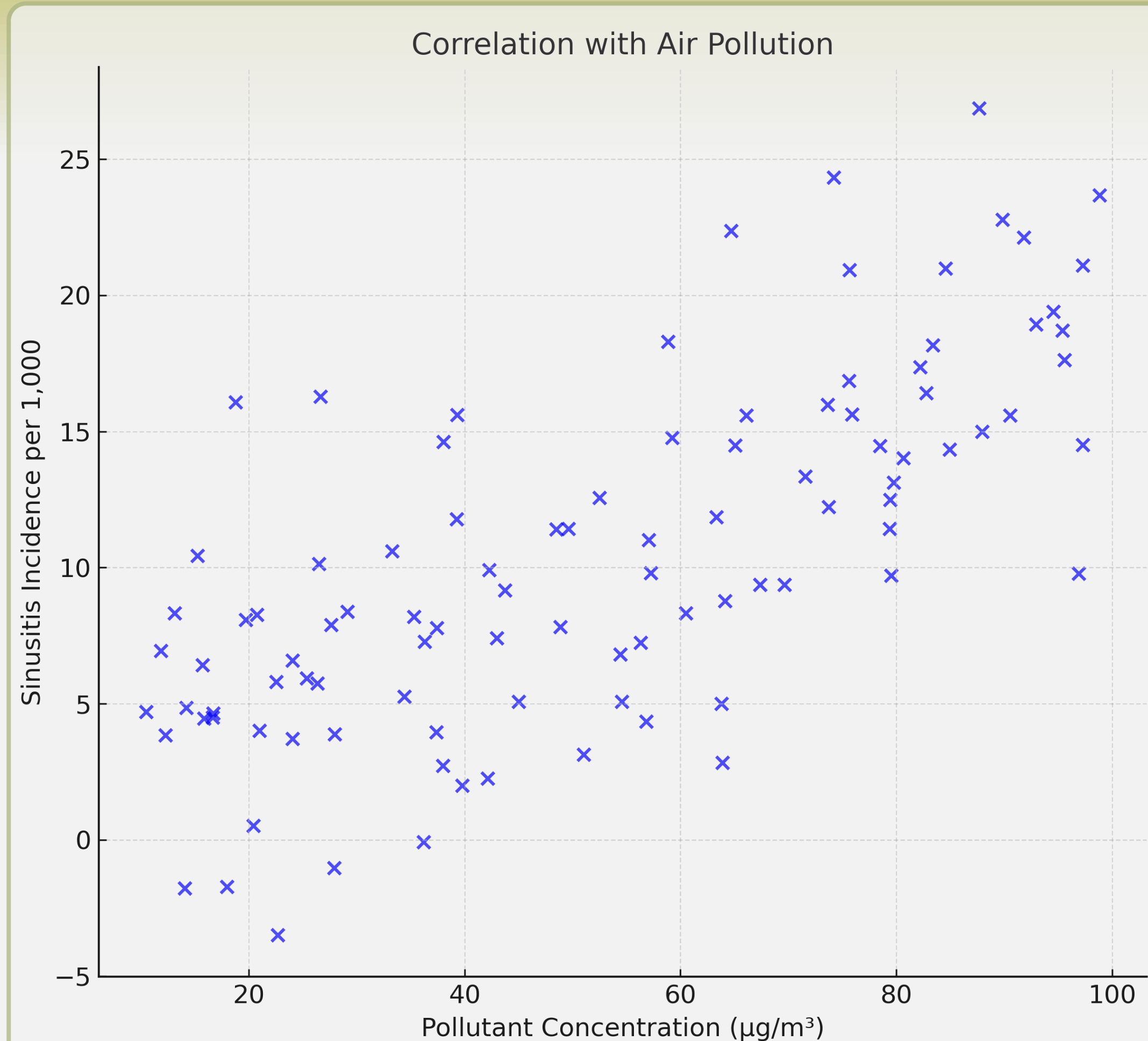
Retrospective analysis
2008-2017



Population
Stratified by gender and
age groups
(20-44, 45-64, ≥65)



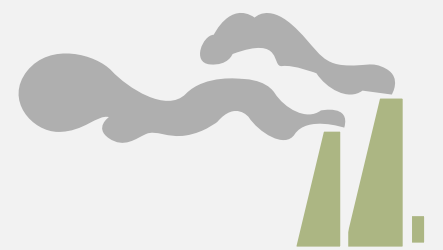
Sources
-Health insurance claims
-Air quality
-Meteorological data



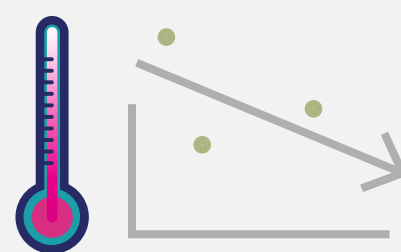
Seasonal peaks in
Winter



Higher incidence in females
and younger age groups



Strong positive correlation with
pollutants (PM_{10} , NO_2 , SO_2 , CO)



Inverse correlation
with temperature

• Acute sinusitis is significantly influenced
by seasonality and air pollution

• Efforts to reduce pollution, adapt to climate
change, and educate communities are critical to
mitigating its impact on public health

