Cancer Risk Factors & Intensity Analysis

Turning Health Data into Insights

Power Query | Power BI | Canva

Upasana Bara, Data Analyst

🎯Objective:

Analyze lifestyle, environmental, and demographic factors that influence cancer risk levels.

Goal: Identify **patterns** and **preventive causes** through data-driven insights.

🛠️ Dataset & Tools

Dataset: 2,000 patient records

Tools:

- Power Query → Cleaning, Structuring & transforming
- Power BI → Visualization & DAX modeling

Dashboard Overview

- Interactive slicers by gender, age group, risk level and cancer types
- Dynamic charts showing patterns across risk vs demographics, lifestyle, and environmental
- KPI cards for average BMI, age and total patients

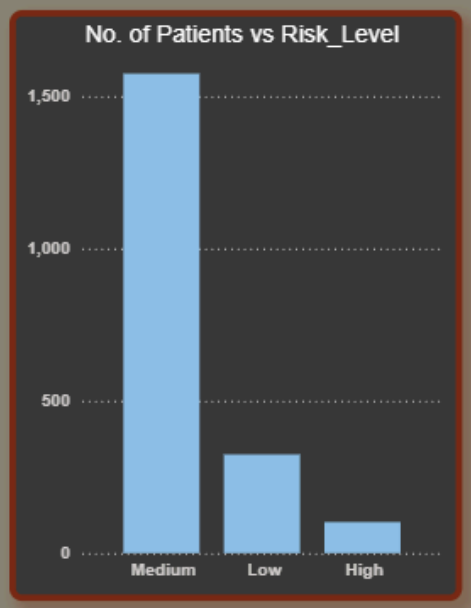
Cancer Risk Factors & Intensity Analysis

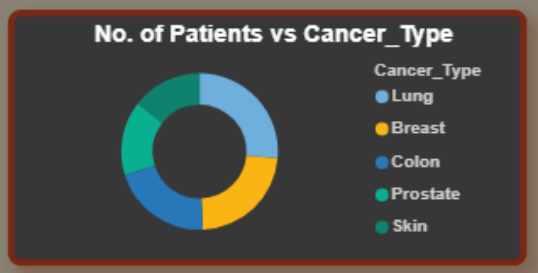
2000	26.18	63.25
Total_Patients	Avg_BMI	Avg_Age

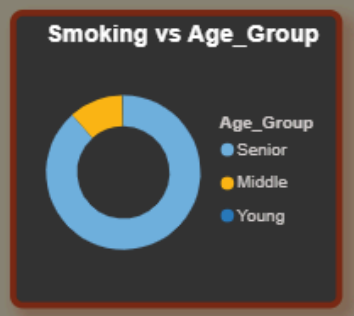
Gender: F, M

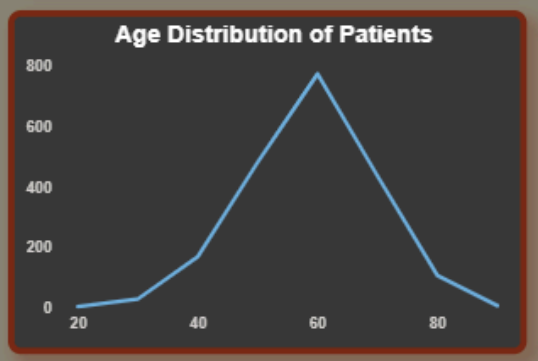
Age_Gr...: Middle, Senior, Young

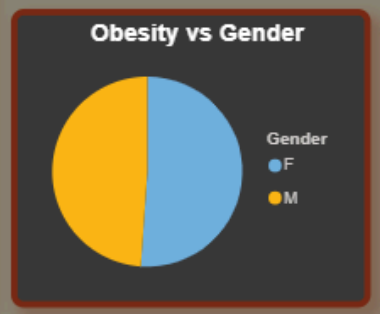
Cancer_...: Skin, Prostate, Lung, Colon, Breast











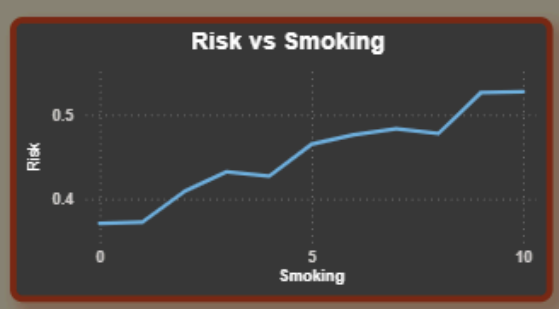
Lifestyle and Risk Analysis

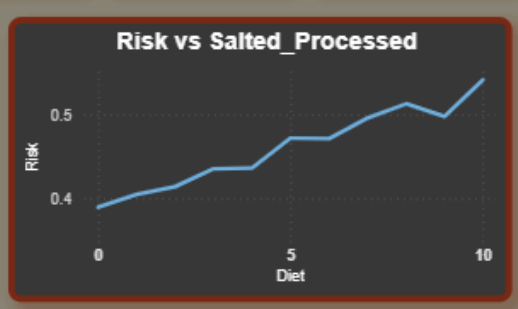
Gender: F, M

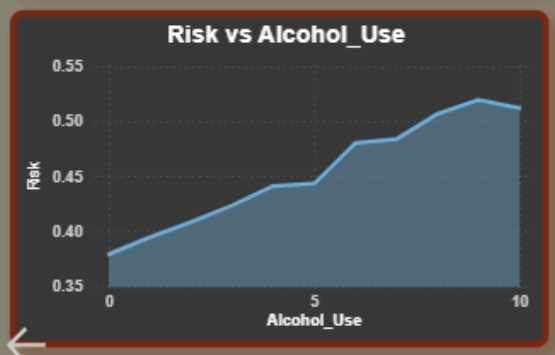
Age_G...: Middle, Senior, Young

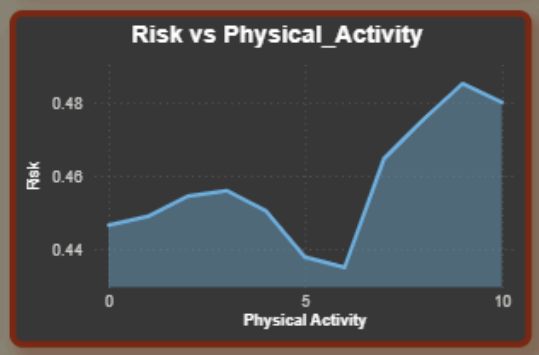
Risk_Level: High, Low, Medium

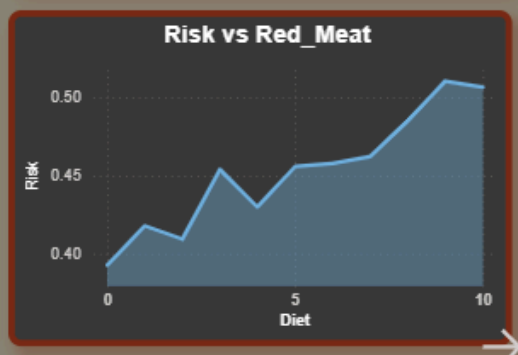
Cancer_Type: Breast, Colon, Lung, Prostate











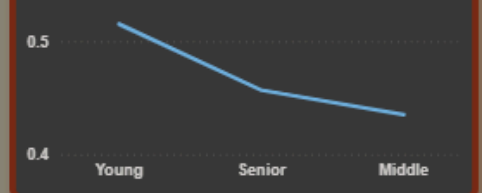
Environmental & Combined Risk Analysis

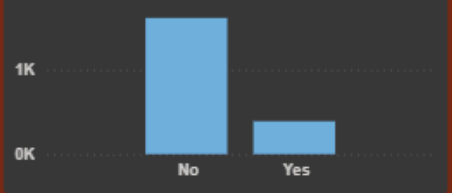
Gender
- F
- M

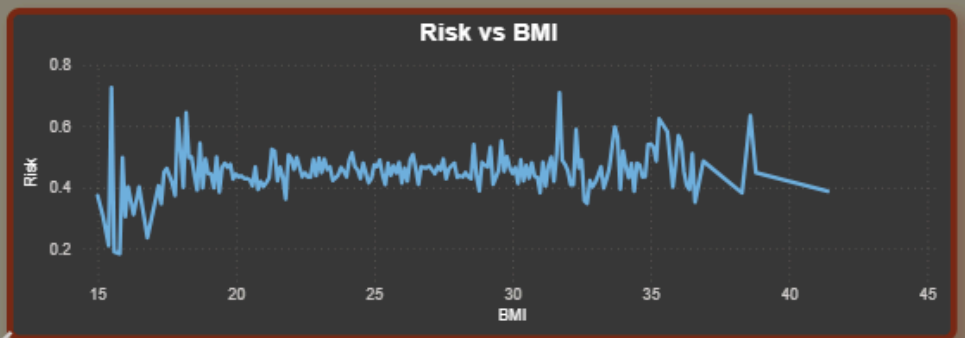
Age_Group
- Middle
- Senior
- Young

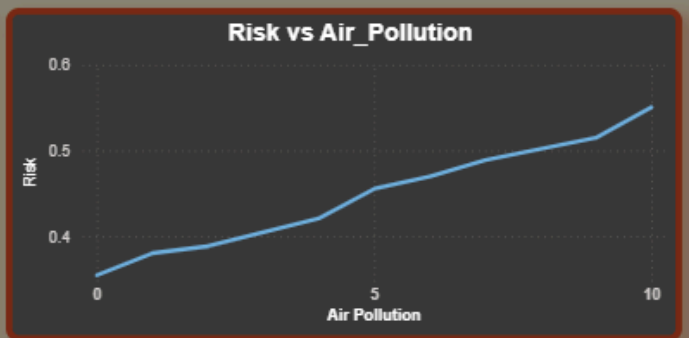
Risk_L...
- High
- Low
- Medium

Cancer_T...
- Breast
- Colon
- Lung









Key Insights

- Total patients 2000, Avg BMI-26.18, and Avg. Age 63.25
- 75% of patients fall under medium risk - a window for early intervention.
- Smoking, Obesity, and alcohol are the top risk factors
- Processed foods & red meat elevate risk levels.
- Among female patients, 44.52% suffer from breast cancer.
- Among men patients, 31.19% suffer from prostate cancer.

- Overweight (BMI above 31) & Underweight (BMI below 19) are at higher risk
- Risk levels tend to decrease with age, likely reflecting earlier lifestyle interventions older population
- Patients with a family history of cancer don’t show a higher prevalence.
- Air pollution & occupational hazards are key environmental contributors to elevated cancer risk.

Results & Recommendations

- Most risk factors are preventable.
- Awareness & early lifestyle changes can reduce intensity.
- Data-driven insights can guide public health policy and early detection efforts.

💼 Tools & Skills

Power BI | Power Query | DAX | Data Modelling | Data Storytelling | Dashboard Design

📌 Conclusion

“Data can’t cure cancer - but it can guide the fight against it.”

Let’s use data to drive better health outcomes.

By Upasana Bara | Data Analyst

#DataAnalytics#PowerBI#PublicHealth #CancerAwereness