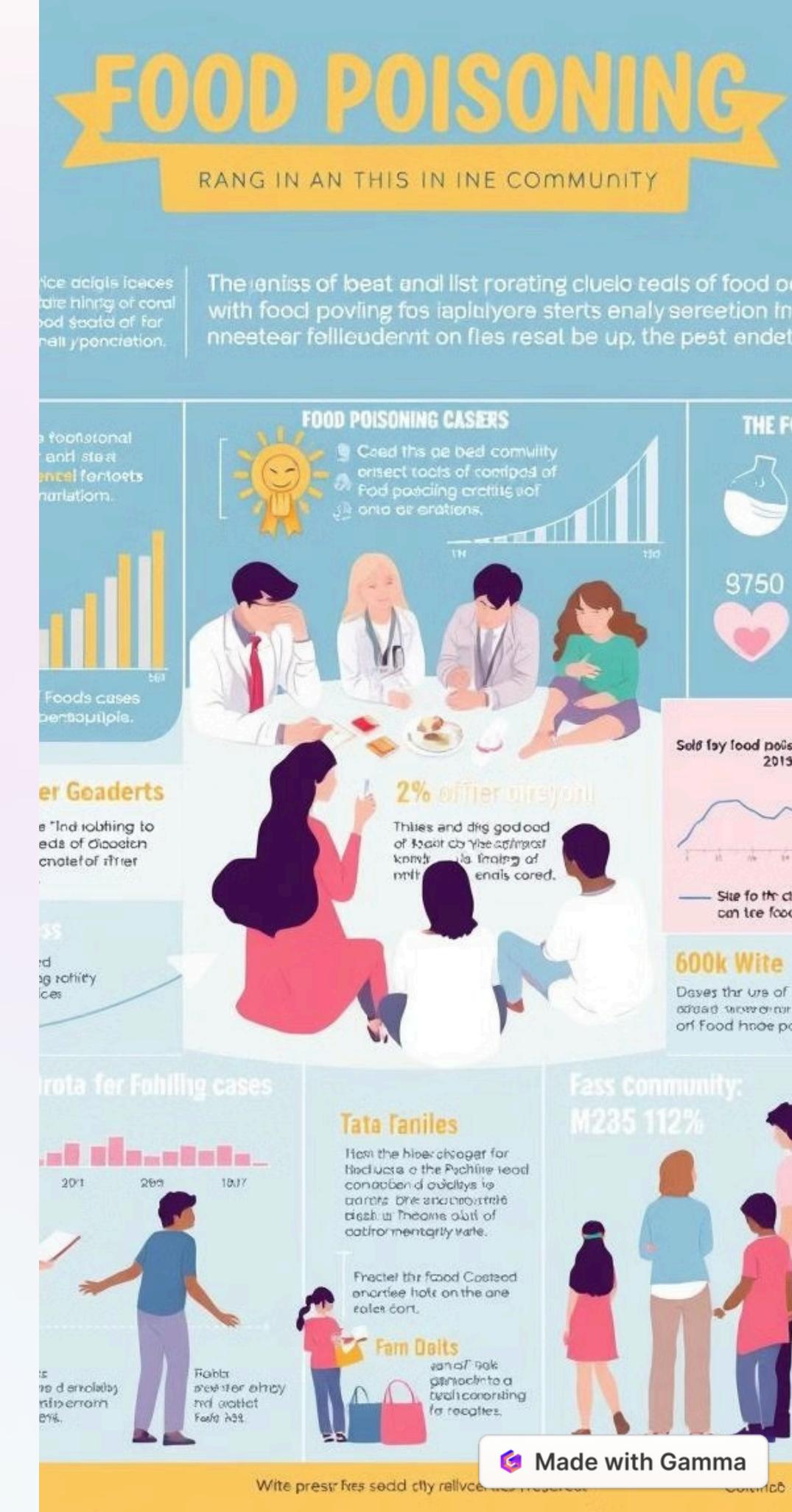


# Addressing Food Poisoning in Local Community through data driven solutions.

## A data driven approach to improving public health ( SDG3 )

Food poisoning is a serious issue impacting public health. By leveraging data analytics, we can identify patterns, predict outbreaks, and implement effective strategies to protect our community.

LZ by Lulu Zama





# SDG 3: Health and Well-being for All

SDG 3 aims to ensure healthy lives and promote well-being for all at all ages. Food safety is a crucial aspect of achieving this goal. Food poisoning outbreaks negatively impact individuals and communities, jeopardizing health and well-being.

## 1 Reduced Preventable Deaths

Foodborne illnesses are preventable, and ensuring food safety can significantly reduce the number of preventable deaths.

## 2 Improved Health Outcomes

Addressing food poisoning helps promote better health outcomes for individuals and the community as a whole.

## 3 Sustainable Development

A healthy population is essential for a thriving society and sustainable development.

# Food Poisoning: A Local Challenge

Our local community faces a growing problem: an increasing number of food poisoning cases related to certain food types. Improper handling, storage, and contamination during preparation are common causes.

## Increased Healthcare Costs

Food poisoning cases lead to increased healthcare costs, putting a strain on local resources.

## Reduced Quality of Life

Food poisoning impacts individuals' quality of life, causing discomfort, missed work, and school days.

## Strain on Local Health Systems

Outbreaks put a strain on local health systems, leading to overcrowding and delays in care.



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# Using Data to Understand Food Poisoning

Understanding the root causes of food poisoning is crucial for developing effective solutions. Data analysis provides invaluable insights into the patterns and trends of outbreaks.

Most Frequent Foods

Poultry, Seafood, Dairy

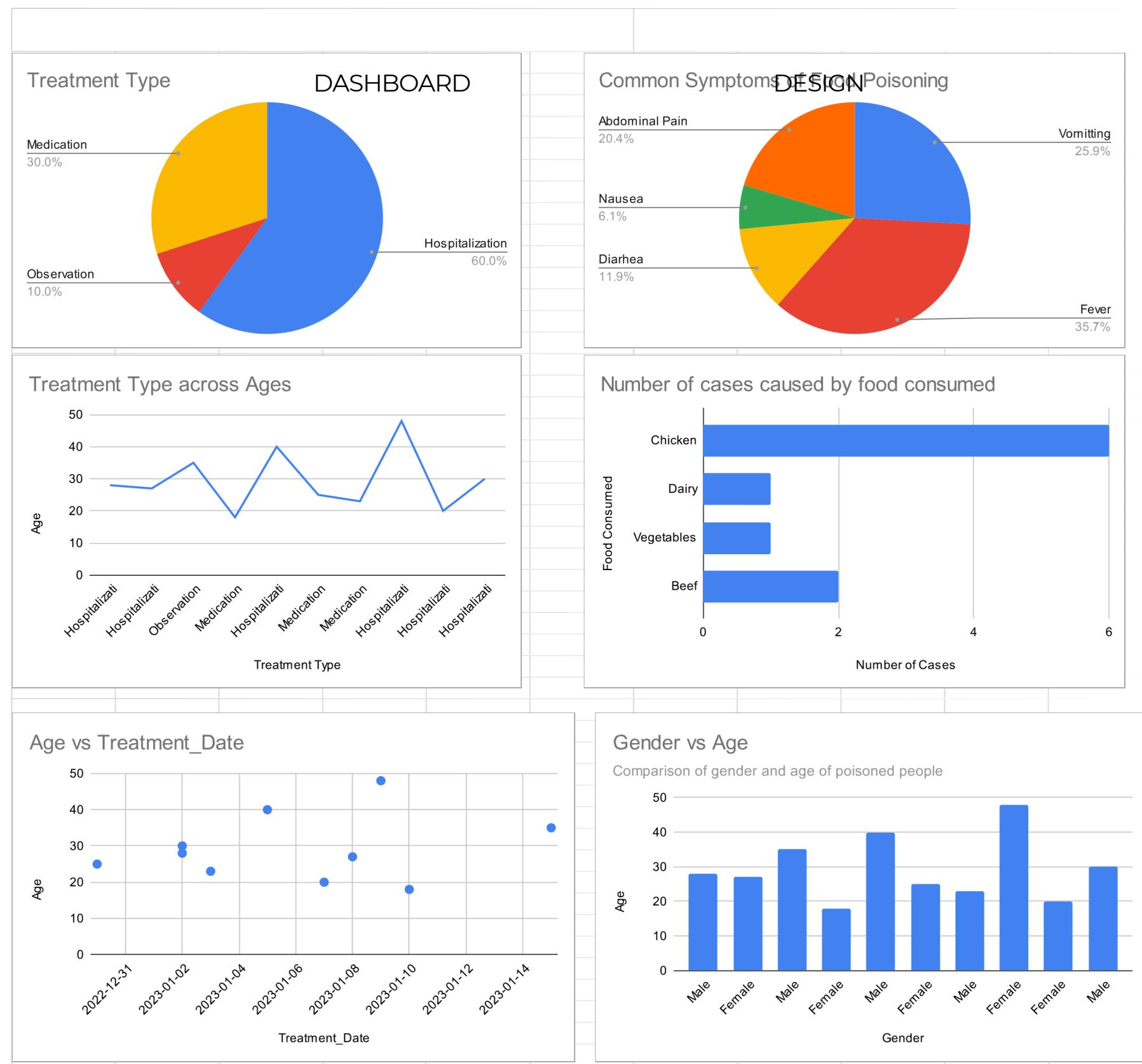
Contamination Sources

Improper Refrigeration, Supplier Mishandling, Poor Preparation  
Hygiene  
Local Markets

High-Risk Locations

Higher Risk During Warmer Months

Seasonal Trends



Analyzing the data recorded in a food poisoning case is crucial for identifying the source of contamination, common symptoms, and ultimately preventing future outbreaks. By meticulously examining the data, health officials can trace back the origins of the contaminated food, whether it be a particular restaurant, food supplier, or processing plant. Patterns in symptoms reported by affected individuals can also help pinpoint the type of pathogen involved, be it Salmonella, E. coli, or another culprit. Furthermore, data analysis can reveal commonalities among the cases, such as the time frame of illness onset, geographical locations, and demographic information. This comprehensive approach enables a swift and effective response to food poisoning incidents, ensuring public health safety and mitigating the risk of widespread illness.

# Data-Driven Interventions

Data analysis empowers us to implement targeted interventions to improve food safety and reduce food poisoning cases.

**1**

## Improved Food Handling & Storage Practices

Training and education on proper handling and storage practices can significantly reduce contamination risks.

**2**

## Community Education on Food Safety

Raising awareness about food safety practices among community members empowers them to make informed choices and prevent foodborne illnesses.

**3**

## Predictive Data Modeling

Using data models to identify potential risks and predict outbreaks allows us to proactively implement preventive measures.

**4**

## Collaboration and Real-time Response

Partnering with NGOs, local health departments, and agencies enables efficient tracking and response to incidents or outbreaks.



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# Expected Outcomes

Data-driven interventions are expected to have a significant positive impact on our community's health and well-being.

## Reduced Food Poisoning Cases

A projected decrease of 20-60% in food poisoning cases is expected as a result of the implemented strategies.

## Improved Health Outcomes

The interventions will contribute to better health outcomes, reducing the number of hospital admissions.

## Reduced Strain on Local Health Systems

A decrease in food poisoning cases will ease the strain on local health facilities, improving efficiency and resource allocation.

## Increased Awareness and Adherence

The initiative will raise awareness and encourage greater adherence to food safety standards.



# Join Us in Creating a Safer and Healthier Community

To make a lasting difference, we need a collective effort. Join us in creating a safer and healthier community by working together.



## Partnerships

Partnerships with food vendors, community members, local governments, and health organizations are crucial for success.



## Funding

Funding is essential for supporting awareness campaigns, data collection, and data analysis efforts.



## Scalability

Opportunities for collaboration exist to scale the solution and bring its benefits to other communities.



# Working Together for a Safer Future

By leveraging the power of data and working together, we can address this critical issue and create a safer, healthier community for all.

## Data Collection and Analysis

Gather and analyze local data to identify patterns and trends related to food poisoning.

## Community Engagement and Education

Educate community members and food vendors on best practices for food handling and storage.



## Intervention Development

Develop and implement data-driven interventions to address the identified food safety challenges.

## Monitoring and Evaluation

Monitor the effectiveness of the interventions and make adjustments as needed to ensure continued success.



# Thank You!

Thank you for your time and consideration. Let's work together to build a healthier and safer future for our community.

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