Exercise 2.10 – Presenting findings to Stakeholders

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Youtube link ( navigating through the tableau story)

<https://youtu.be/SLHnAeMxGIY>

*Tableau workbook (Exercise 2.9)*

<https://public.tableau.com/app/profile/aysha.samsudeen/viz/Exercise2_9-StorytellingandDataVisualisations/Story1>

**1. Comprehensive Data Analysis**

**Mortality and Demographics**

* 91.3% of influenza-related deaths occur in the 65+ age group
* Geographic distribution shows higher risk in states with larger elderly populations
* Significant variation in mortality rates across different age groups and regions

**Healthcare System Impact**

* Patient processing times vary significantly during peak seasons
* Staff-to-patient ratios fluctuate based on seasonal demands
* Resource utilization patterns show seasonal stress points

**2. Data Quality and Limitations**

**Current Limitations**

* Incomplete demographic data granularity
* Geographic coverage gaps
* Inconsistent reporting methods
* Delayed data collection and reporting
* Limited information on underlying health conditions

**Bias Considerations**

* Geographic reporting disparities
* Healthcare access variations
* Testing availability differences
* Demographic representation gaps

**3. Strategic Monitoring Framework**

**Key Performance Indicators (KPIs)**

* Patient wait times
* Staff-to-patient ratios
* Healthcare worker satisfaction rates
* Treatment success rates
* Resource utilization efficiency

**Implementation Metrics**

* Average patient processing time
* Staff burnout rates
* Patient satisfaction scores
* Resource efficiency measurements
* Treatment outcome tracking

**4. Enhanced Recommendations**

**Immediate Actions**

* Implement targeted vaccination campaigns
* Enhance data collection systems
* Establish baseline measurements
* Deploy real-time monitoring systems

**Long-term Strategies**

* Develop comprehensive surveillance systems
* Create integrated healthcare facility networks
* Implement advanced data analytics
* Establish cross-sector partnerships

**5. Future Improvements Needed**

**Data Collection**

* Real-time surveillance capabilities
* Detailed patient health records
* Comprehensive vaccination tracking
* Socioeconomic indicator integration

**Monitoring Systems**

* Quarterly assessment protocols
* Seasonal variation tracking
* Staff survey systems
* Patient feedback mechanisms

**6. Impact Assessment Framework**

**Regular Monitoring**

* Implement quarterly assessments
* Track seasonal variations
* Conduct regular staff surveys
* Monitor patient feedback
* Analyze resource utilization

**Performance Metrics**

* Treatment success rates
* Staff efficiency measures
* Resource utilization rates
* Patient satisfaction levels
* Healthcare outcomes

**7. Additional Insights**

**Healthcare System Optimization**

* Need for improved resource allocation
* Enhanced staff training programs
* Better integration of technology
* Streamlined communication systems

**Community Impact**

* Variations in healthcare access
* Socioeconomic factors influence
* Geographic distribution challenges
* Demographic-specific needs

This expanded analysis provides a more complete picture of the challenges and opportunities in addressing the influenza epidemic, incorporating both operational and strategic considerations. The combination of mortality data, healthcare system impacts, and monitoring frameworks offers a comprehensive foundation for improving response strategies and outcomes.