

ANALYTICS REPORT

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SECTION 1: WHAT IS HAPPENING

| Metric | Value |
|-----------------|------------|
| Total Records | 227 |
| Total Variables | 8 |
| Data Quality | 87.6% |
| Analysis Date | 2026-01-31 |

Key Performance Metrics:

| Metric | Current | Average | Min | Max | Trend |
|---------------------------------|-------------|------------|------|-------------|------------|
| People Death Count | 135451.00 | 27455.49 | 0.00 | 991921.00 | Increasing |
| People Death New Count | 159.00 | 11.04 | 0.00 | 419.00 | Increasing |
| People Positive Cases Count | 24798067.00 | 2259907.01 | 0.00 | 81237970.00 | Increasing |
| People Positive New Cases Count | 87298.00 | 2782.71 | 0.00 | 87298.00 | Increasing |
| Selected Metric | 87298.00 | 2782.71 | 0.00 | 87298.00 | Increasing |

SECTION 2: HOW IT'S HAPPENING

Trend Analysis:

| Metric | Direction | Strength | R ² | Growth Rate | Explanation |
|---------------------------------|-----------|----------|----------------|---------------------|---|
| People Death Count | Upward | Weak | 0.100 | 462.85 per period | People Death Count is slightly increasing over time with R ² = 0.100. This trend ... |
| People Death New Count | Upward | Weak | 0.155 | 0.26 per period | People Death New Count is slightly increasing over time with R ² = 0.155. This tr... |
| People Positive Cases Count | Upward | Weak | 0.132 | 40756.23 per period | People Positive Cases Count is slightly increasing over time with R ² = 0.132. Th... |
| People Positive New Cases Count | Upward | Moderate | 0.170 | 68.19 per period | People Positive New Cases Count is moderately increasing over time with R ² = 0.1... |
| Selected Metric | Upward | Moderate | 0.170 | 68.19 per period | Selected Metric is moderately increasing over time with R ² = 0.170. This trend i... |

Key Relationships:

| Variable 1 | Variable 2 | Correlation | Type | Explanation |
|---------------------------------|---------------------------------|-------------|----------|---|
| People Death Count | People Death New Count | 0.755 | Positive | When People Death Count goes up, People Death New Count typically increases. This strong positive relationship... |
| People Death Count | People Positive Cases Count | 0.905 | Positive | When People Death Count goes up, People Positive Cases Count typically increases. This strong positive relationship... |
| People Death New Count | People Positive Cases Count | 0.828 | Positive | When People Death New Count goes up, People Positive Cases Count typically increases. This strong positive relationship... |
| People Death New Count | People Positive New Cases Count | 0.773 | Positive | When People Death New Count goes up, People Positive New Cases Count typically increases. This strong positive relationship... |
| People Death New Count | Selected Metric | 0.773 | Positive | When People Death New Count goes up, Selected Metric typically increases. This strong positive relationship... |
| People Positive Cases Count | People Positive New Cases Count | 0.699 | Positive | When People Positive Cases Count goes up, People Positive New Cases Count typically increases. This moderate positive relationship... |
| People Positive Cases Count | Selected Metric | 0.699 | Positive | When People Positive Cases Count goes up, Selected Metric typically increases. This moderate positive relationship... |
| People Positive New Cases Count | Selected Metric | 1.000 | Positive | When People Positive New Cases Count goes up, Selected Metric typically increases. This strong positive relationship... |

SECTION 3: WHAT WILL HAPPEN

Predictive Forecasting & Future Outlook

Multi-Period Forecasts:

Predictions for next 1, 3, 5, and 10 periods with confidence intervals

| Metric | Current | +1 | +3 | +5 | +10 | Change | Confidence | CI |
|---------------------------------|-------------|------------|------------|------------|------------|--------|------------|--------------|
| People Death Count | 135451.00 | 80220.58 | 81146.28 | 82071.99 | 84386.25 | -39.4% | Low | ±178199.94 |
| People Death New Count | 159.00 | 40.44 | 40.96 | 41.47 | 42.76 | -73.9% | Low | ±77.36 |
| People Positive Cases Count | 24798067.00 | 6906117.35 | 6987629.81 | 7069142.27 | 7272923.43 | -71.5% | Low | ±13403421.43 |
| People Positive New Cases Count | 87298.00 | 10556.27 | 10692.65 | 10829.03 | 11169.98 | -87.6% | Low | ±19331.57 |
| Selected Metric | 87298.00 | 10556.27 | 10692.65 | 10829.03 | 11169.98 | -87.6% | Low | ±19331.57 |

Forecast Explanations:

People Death Count: Based on historical patterns ($R^2=0.100$), People Death Count is forecasted to decrease by 39.4% over the next 5 periods. The prediction has low reliability with a confidence interval of ± 178199.94 .

People Death New Count: Based on historical patterns ($R^2=0.155$), People Death New Count is forecasted to decrease by 73.9% over the next 5 periods. The prediction has low reliability with a confidence interval of ± 77.36 .

People Positive Cases Count: Based on historical patterns ($R^2=0.132$), People Positive Cases Count is forecasted to decrease by 71.5% over the next 5 periods. The prediction has low reliability with a confidence interval of ± 13403421.43 .

People Positive New Cases Count: Based on historical patterns ($R^2=0.170$), People Positive New Cases Count is forecasted to decrease by 87.6% over the next 5 periods. The prediction has low reliability with a confidence interval of ± 19331.57 .

Selected Metric: Based on historical patterns ($R^2=0.170$), Selected Metric is forecasted to decrease by 87.6% over the next 5 periods. The prediction has low reliability with a confidence interval of ± 19331.57 .

STRATEGIC RECOMMENDATIONS

Prioritized, Actionable Recommendations with Timelines & KPIs

| Priority | Category | Recommendation | Action Plan (Top 3) | Timeline | KPIs |
|----------|--------------------|--|--|---------------------------------|---|
| High | Growth Opportunity | Capitalize on People Positive New Cases Correlation with resources | 1. Allocate additional resources to capitalize on growth 2. Scale successful initiatives 3. Expand market reach | 30-90 days | Target: Maintain R² >0.170, Increase growth rate by |
| High | Growth Opportunity | Capitalize on Selected Metric growth in Alternative | 1. Allocate additional resources to capitalize on growth 2. Scale successful initiatives 3. Expand market reach | 30-90 days | Target: Maintain R² >0.170, Increase growth rate by |
| Medium | Strategic Insight | Leverage People Death Count-People Death New Count Relationship | 1. Use People Death Count as leading indicator for People Death New Count 2. Set up automated alerts when People Death Count changes >10% 3. Build predictive model using this relationship | People Death New Count | Forecasting accuracy >85%, Response time to cha |
| Medium | Strategic Insight | Leverage People Death Count-People Positive Cases Correlation | 1. Use People Death Count as leading indicator for People Positive Cases 2. Set up automated alerts when People Death Count changes >10% 3. Build predictive model using this relationship | People Positive Cases | Forecasting accuracy >85%, Response time to cha |
| Medium | Strategic Insight | Leverage People Death New Count-People Positive Cases New Count Relationship | 1. Use People Death New Count as leading indicator for People Positive Cases New Count 2. Set up automated alerts when People Death New Count changes >10% 3. Build predictive model using this relationship | People Positive Cases New Count | Forecasting accuracy >85%, Response time to cha |