Insights

1. **Total Patients – 8000**
2. **Male – 5206, Female – 2794**
3. **Most common diseases – Malaria, Asthma, Tuberculosis**
4. **Most common causes of death**
   - **Multiple Organ Failure - 114**
   - **Respiratory Failure - 109**
   - **Cardiac Arrest – 102**
5. **Recovery Rate – 85.3%**
6. **Casualty Rate – 5.2%**
7. **Under Treatment Rate – 9.5%**

Recommended Next Steps

🔍 1. Disease Management

Insights: Malaria, Asthma, Tuberculosis are most common

Actions:

- **Preventive Care Programs**: Launch awareness and prevention campaigns (e.g., mosquito control for Malaria, pollution control for Asthma).
- **Special Clinics or OPDs**: Set up dedicated clinics for these diseases with trained specialists.
- **Vaccination & Screening Drives**: Especially for Tuberculosis; offer regular check-ups for early detection.
- **Community Outreach**: Partner with local NGOs to educate about sanitation, lifestyle, and symptoms.

❤️ 2. Improve Recovery & Reduce Casualties

Insights: Recovery Rate – 85.3%, Casualty Rate – 5.2%

Actions:

- **Mortality Review Committee**: Analyze each high-casualty category (Multiple Organ Failure, Cardiac Arrest) to identify treatment gaps.
- **Critical Care Protocols**: Strengthen ICU protocols, early warning systems, and emergency response times.
- **Post-Treatment Follow-Up**: Establish a system to track discharged patients and prevent relapse or complications.

📊 3. Under Treatment Patients

Insight: 9.5% patients under treatment

Actions:

- **Real-time Monitoring Dashboards**: Track treatment progress and flag long-duration cases for review.
- **Capacity Planning**: Ensure resource allocation (beds, staff) is optimized for ongoing treatment.
- **Case Escalation Protocols**: Escalate stagnant cases to senior doctors for faster recovery.

🧑‍⚕️🧑‍⚕️ 4. Gender Disparity

Insight: Higher number of male patients (5206 vs 2794 females)

Actions:

- **Investigate Root Cause**: Is it due to health access disparity, cultural barriers, or lower female reporting?
- **Targeted Outreach**: Health education for women in surrounding communities.
- **Encourage Preventive Visits**: Promote general health checkups specifically for women.

🏥 5. Operational Improvements

Actions:

- **Digital Health Records**: Use EHRs to streamline tracking and flag high-risk patients.
- **Training & Capacity Building**: For staff on updated protocols for common and fatal diseases.
- **Feedback System**: Regularly collect patient feedback to identify service bottlenecks.

✅ 6. Future Data Analysis Suggestions

- Segment by **age groups, region, income levels** for more targeted action.
- Identify **seasonal trends** in disease occurrence.
- Analyze **length of hospital stay vs outcomes** to optimize care plans.