

# BNH Healthcare Hospital Analysis Report



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## 1. Objective

The objective of this report is to analyze patient data from BNH Healthcare Hospital, focusing on bed occupancy, diagnosis trends, patient feedback, and the relationship between health insurance coverage and billing amounts. The goal is to identify key patterns and provide actionable insights that can help the hospital optimize its operations and improve patient satisfaction.

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This report provides a comprehensive analysis of patient data at BNH Healthcare Hospital from December 5, 2022, to January 12, 2023. The analysis covers various aspects, including bed occupancy, diagnosis patterns, patient feedback, and financial metrics related to health insurance and billing.

## Key Findings

- **Total Patients:** The hospital treated 7,157 patients during the analysis period.
- **Bed Occupancy:** Private rooms had the highest occupancy at 3.6K, followed by General (2.4K) and ICU (1.2K).
- **Diagnosis Trends:** The most common diagnosis was Viral Infection, accounting for 2.00K patients, followed by Flu and Malaria.
- **Patient Feedback:** Doctor Ravi D received the highest feedback score, indicating high patient satisfaction.
- **Financial Analysis:** The comparison between health insurance amounts and billed amounts revealed a gap, particularly in high-cost procedures like CT Scans.

## Recommendations

- **Optimizing Bed Utilization:** Consider reallocating resources or adjusting policies to better utilize General and ICU beds.
- **Focused Healthcare Programs:** Given the high incidence of viral infections, implement targeted healthcare programs to manage and reduce these cases.
- **Patient Feedback Systems:** Enhance the feedback mechanism to address any potential issues and improve overall patient care.
- **Financial Management:** Investigate the discrepancies between insurance coverage and billed amounts to improve financial planning.

## Data Description

The data analyzed in this report includes patient admission records, diagnostic data, patient feedback, and financial billing information. The time period of the data spans from December 5, 2022, to January 12, 2023.

## Data Sources

The data was collected from Kaggle.

## Tools Used

- **Power BI:** Utilized for data visualization, dashboard creation, and interactive analysis.

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# Analysis and Insights

## Bed Occupancy by Patient Type

The analysis of bed occupancy revealed that Private rooms were the most utilized, with 3.6K patients. This was significantly higher compared to General (2.4K) and ICU (1.2K) beds. This suggests a preference for Private rooms, possibly due to better amenities or patient demographics.

## Diagnosis-Wise Patient Count

Viral Infection was the most common diagnosis, affecting 2.00K patients. Other notable conditions included Flu (1.72K) and Malaria (1.43K). The relatively lower incidence of serious conditions like Pneumonia (0.57K) and Fractures (0.29K) suggests effective preventative care but also highlights areas needing more focus.

### **Doctor's Feedback by Patients**

The feedback from patients was overwhelmingly positive for certain doctors, with Ravi D and Mary Joy receiving the highest ratings (4.83K). This indicates strong patient-doctor relationships and effective care delivery.

### **Health Insurance Amount vs. Bill Amount**

The analysis of financial data showed that the health insurance coverage was not fully aligned with the billed amounts, particularly for high-cost procedures like CT Scans. This gap may lead to financial strain on patients and needs to be addressed.