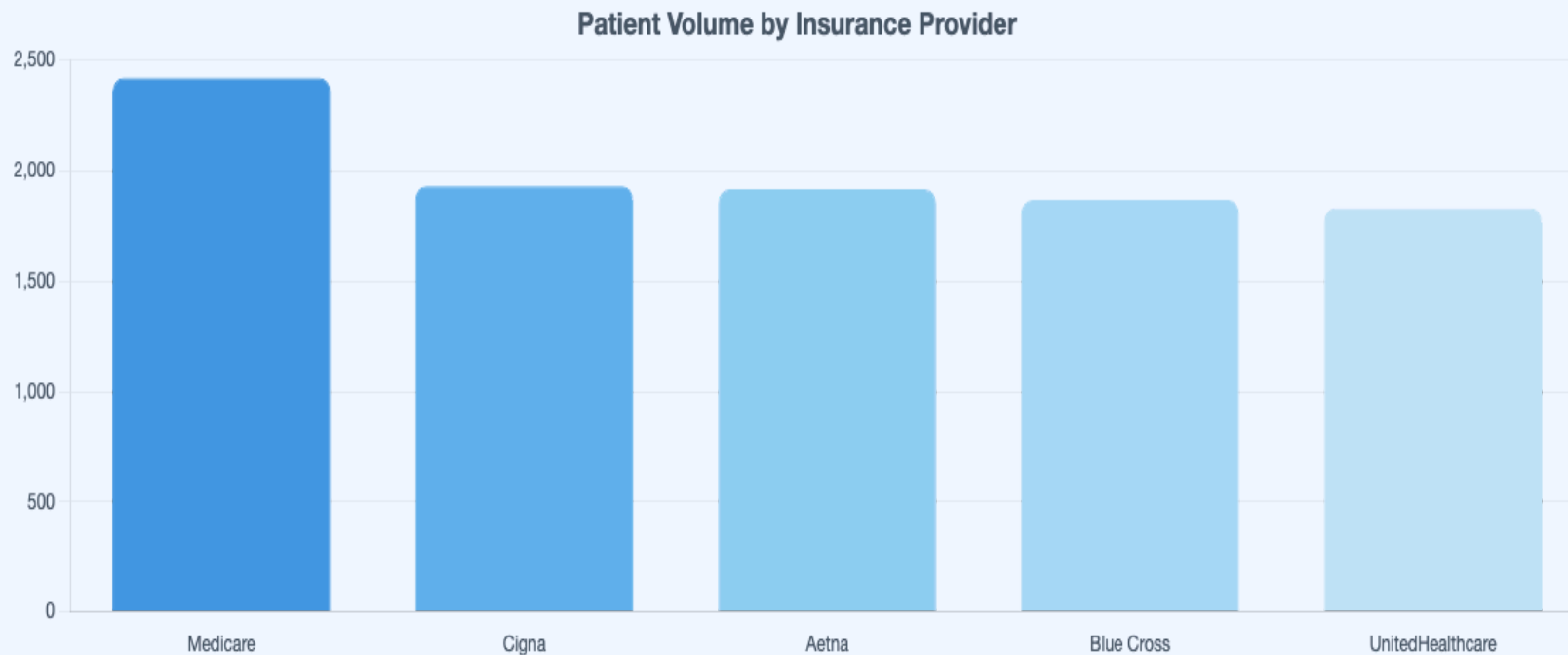




US Hospital Dataset Analysis — Data Analyst Portfolio Output

This report visualizes key insights from a US Hospital Dataset, covering patient demographics, admission details, and billing data from October 2018 to October 2023. These charts highlight critical trends and areas for strategic focus.

1. Top 5 Insurance Providers by Patient Volume



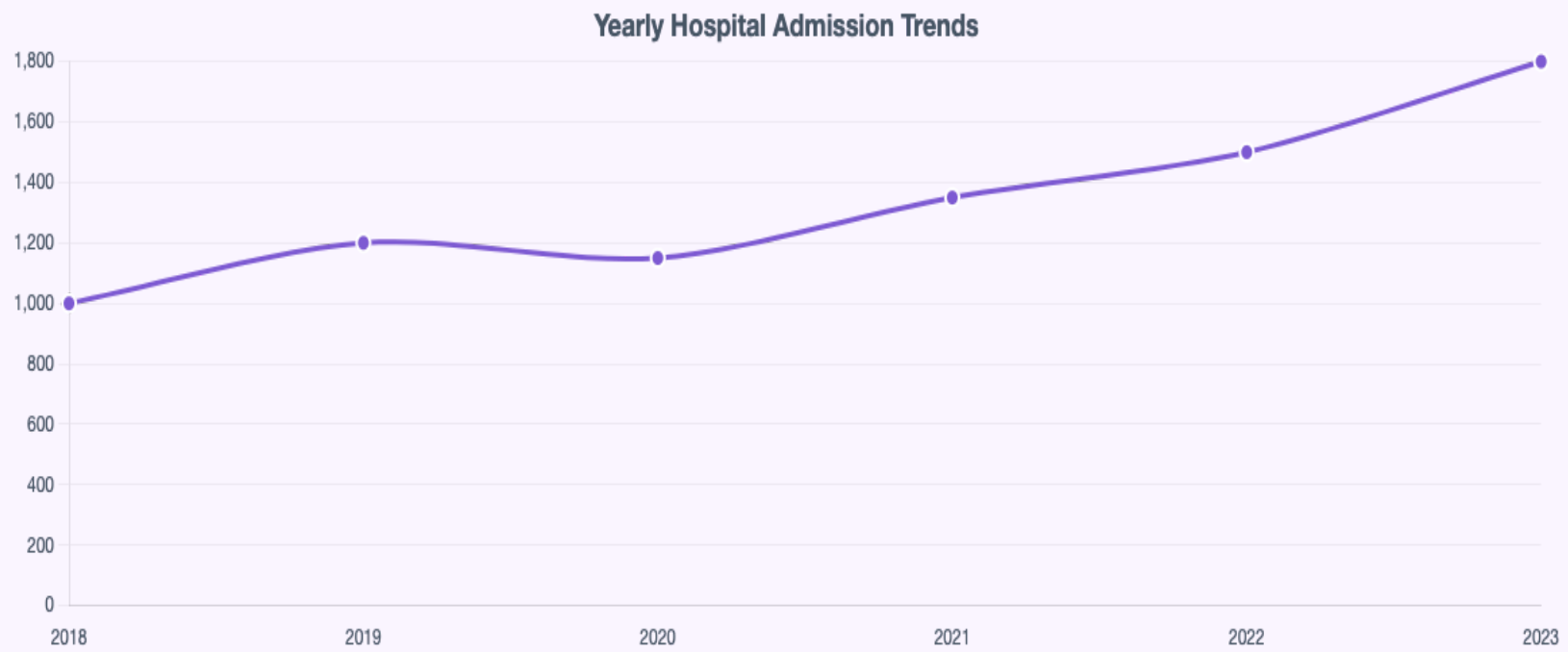
Insight: Medicare dominates patient coverage, accounting for over 24% of all patients in the dataset.

2. Average Length of Hospital Stay



Insight: An average stay duration of 13.8 days suggests a need to review discharge planning or case severity.

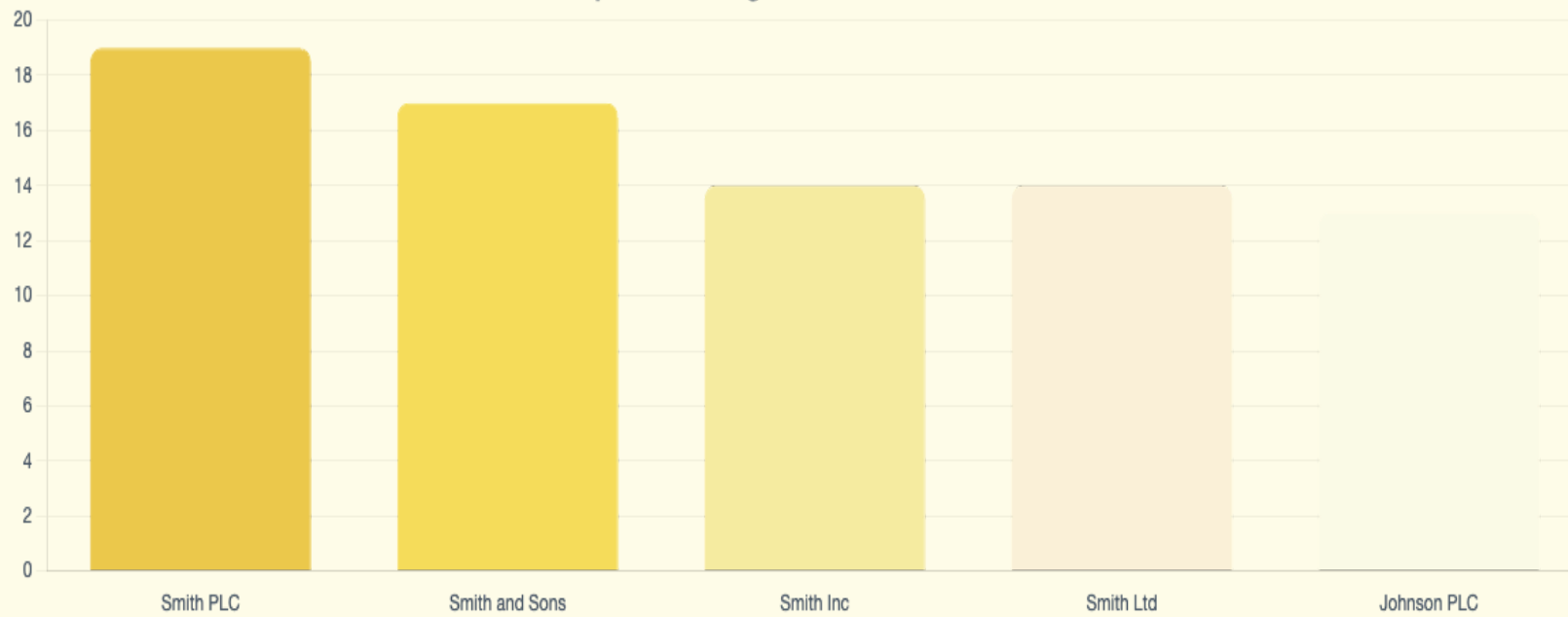
3. Yearly Admission Trends (2018-2023)



Insight: Admissions show a steady increase from 2018 to 2023, indicating growing demand for hospital services.

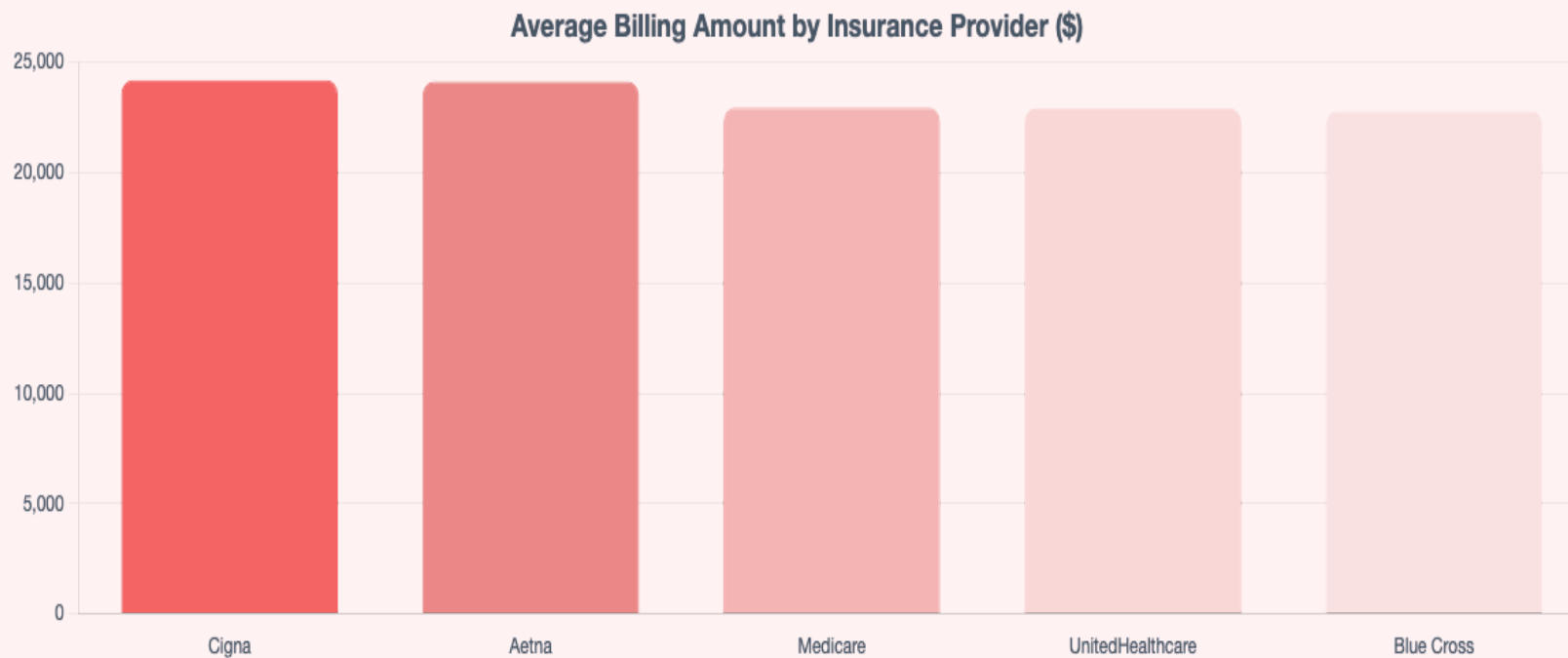
4. Hospitals with Highest Patient Admissions

Hospitals with Highest Patient Admissions



Insight: Certain hospital chains, like "Smith PLC", dominate patient admissions, suggesting potential for performance variation analysis across their branches.

5. Average Billing Amount by Insurance Provider



Insight: Patients with Cigna and Aetna incur higher average billing amounts, which is useful for revenue forecasting and audit focus.

✓ Recommendations

- Investigate drivers behind long average hospital stays (>13 days).
- Prepare hospitals for admission peaks around January and August–October.
- Align insurance processing efficiency with Cigna and Aetna, where billing is highest.
- Focus resource allocation and care optimization around high-volume hospitals and departments.

