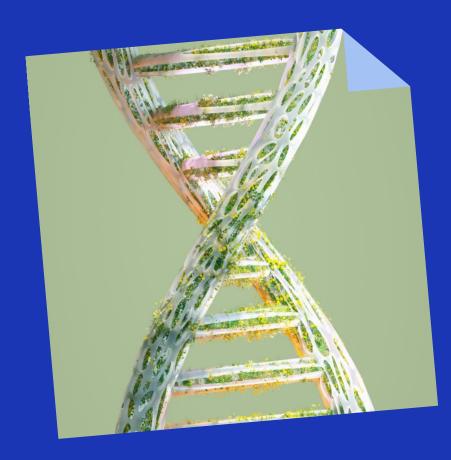
Nurse Attrition Analysis & Retention Strategies

A Data-Driven Approach to Reducing Nurse Turnover

Hong Tran 19 March 2025



Project Objective

Objective

- Analyze nurse attrition trends in the healthcare organization.
- Identify key factors contributing to turnover.
- Propose data-driven retention strategies to improve nurse retention.

Tools Used: Power BI, Excel, Healthcare Analytics

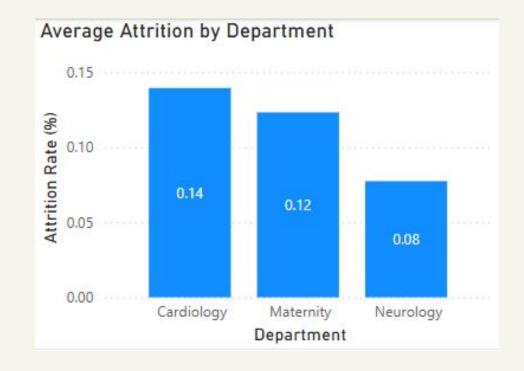




Current State of Nurse Attrition

Key Metrics

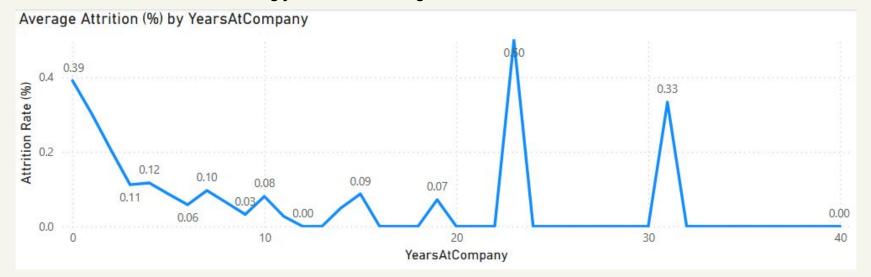
- Overall Attrition Rate: ~13% of nurses leave annually.
- Departmental Breakdown:
 - Cardiology: 14% turnover
 - Maternity: 12% turnover
 - Neurology: 8% turnover (lowest)
- Demographic Trends:
 - Highest attrition among 20-30-year-old nurses.
 - Older nurses (41-60) exhibit higher retention rates.



Trend Analysis – Nurse Attrition Over Time

Key Insights

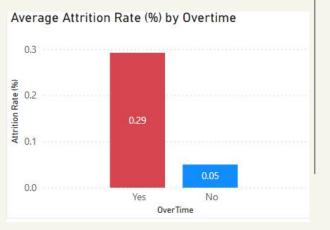
- Highest turnover occurs within the first 3 years of employment.
- ICU, ER, and Surgery have the highest turnover rates due to workload pressures.
- Poor work-life balance strongly correlates with high attrition.



Key Factors Contributing to Nurse Turnover

Overtime & Workload

- Nurses working overtime are 6x more likely to leave (29% vs. 5%).
- Excessive workloads lead to burnout and dissatisfaction.



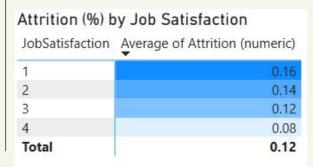
Salary & Compensation

- Lower-income nurses (\$1,000 \$3,000)
 have the highest attrition rate (27.4%).
- Higher-income nurses (\$8,000+) have the lowest attrition rate (4%).



Job Satisfaction & Work-Life Balance

- Poor work-life balance = higher turnover rates.
- Job satisfaction scores below 3 = higher resignation risk.



Proposed Retention Strategies

1. Reduce Overtime & Workload

- Limit excessive overtime & improve nurse-to-patient ratios.
- Implement better scheduling flexibility & shift rotations.
- Use predictive analytics to track high-risk nurses.

2. Salary Adjustments & Incentives

- Increase pay for lower-income nurses to reduce financial-driven resignations.
- Offer retention bonuses for high-risk departments (ICU, ER, Surgery).
- Provide tuition reimbursement & career development programs.

3. Improve Job Satisfaction & Work-Life Balance

- Implement wellness programs & mental health resources.
- Conduct regular engagement surveys & exit interviews.
- Enhance career advancement opportunities to retain experienced nurses.

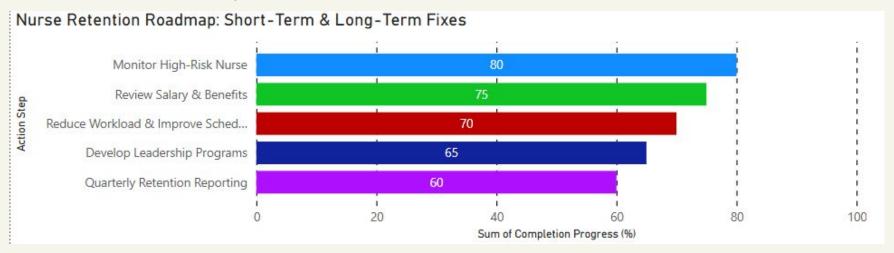




Conclusion & Next Steps

- Monitor & track high-risk nurses with predictive analytics.
- Implement policy changes to reduce workload & improve job satisfaction.
- Review salary structures & incentives to retain key talent.

Goal: Reduce nurse attrition by 25-40% in the next 6-12 months.



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