

# Optimization Recommendations

## 1. Enhance SMS Reminder Strategy

Patients who received SMS reminders showed a significantly lower no-show rate.

It is recommended to send automated reminders one day before and on the day of the appointment, especially for high-risk patients.

## 2. Age-Based Appointment Engagement

Certain age groups demonstrated higher no-show behavior.

Targeted reminder timing and personalized communication should be implemented based on patient age groups to improve attendance.

## 3. Weekday-Based Scheduling Optimization

No-show rates vary across different weekdays.

High no-show days should have additional reminders or reduced critical appointments, while low no-show days can be utilized for important consultations.

## 4. Controlled Overbooking for High-Risk Patients

Patients with repeated no-show history can be categorized as high-risk.

A controlled overbooking strategy can be applied to optimize doctor utilization without affecting service quality.

## 5. Appointment Confirmation System

Introducing a confirmation mechanism (Yes/No via SMS or link) can help identify uncertain appointments in advance.

Unconfirmed slots can be reassigned to waitlisted patients.

## **6. Continuous Monitoring Using Power BI Dashboard**

Regular monitoring of SMS effectiveness, age trends, and weekday patterns through the dashboard will support data-driven operational decisions and continuous improvement.