

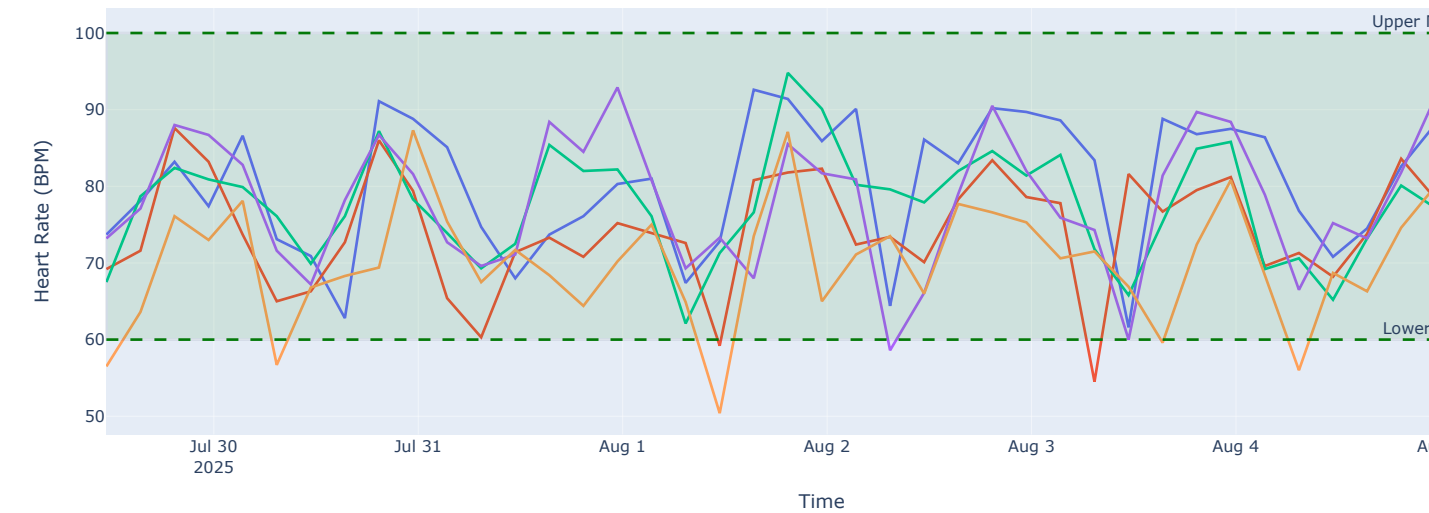
```
PATIENT VITAL SIGNS DASHBOARD - JUPYTER VERSION
=====
Generating sample patient data...
Generated data for 15 patients over 14 days
Total records: 1260
=== DATA OVERVIEW ===
Total Records: 1260
Unique Patients: 15
Date Range: 2025-07-22 15:23:10.944446 to 2025-08-05 11:23:10.944446
Days Covered: 13
Missing Values: 0

=== VITAL SIGNS SUMMARY ===
count    heart_rate    systolic_bp    diastolic_bp    temperature    oxygen_saturation
mean      75.80      117.72      80.15      98.50      97.75
std       10.20      16.45      12.02      0.68      1.45
min       42.10      70.00      45.00      96.20      91.20
25%       68.68      107.20      71.68      98.00      96.90
50%       75.40      118.50      82.40      98.50      97.85
75%       82.90      130.10      88.50      99.00      98.80
max       115.20      162.70      121.60      100.30      100.00

=== RISK DISTRIBUTION ===
LOW: 924 (73.3%)
HIGH: 252 (20.0%)
MEDIUM: 84 (6.7%)
```

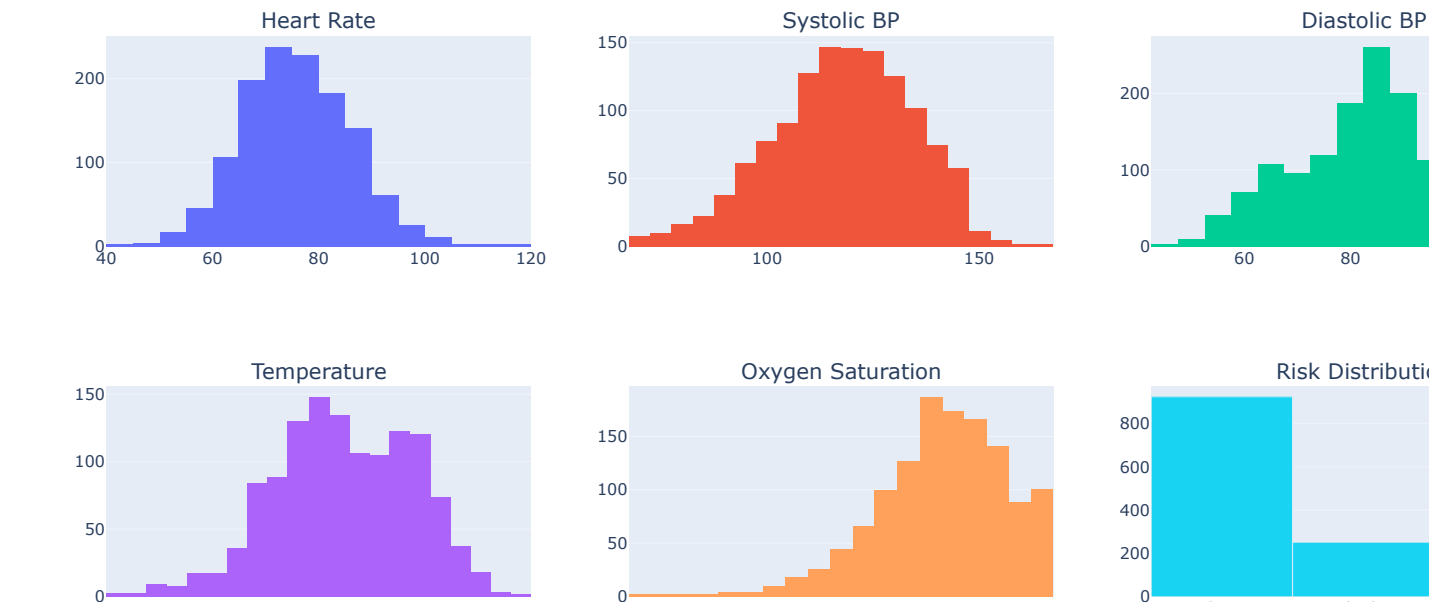
Generating Heart Rate Trends...

Heart Rate Trends - Last 7 Days



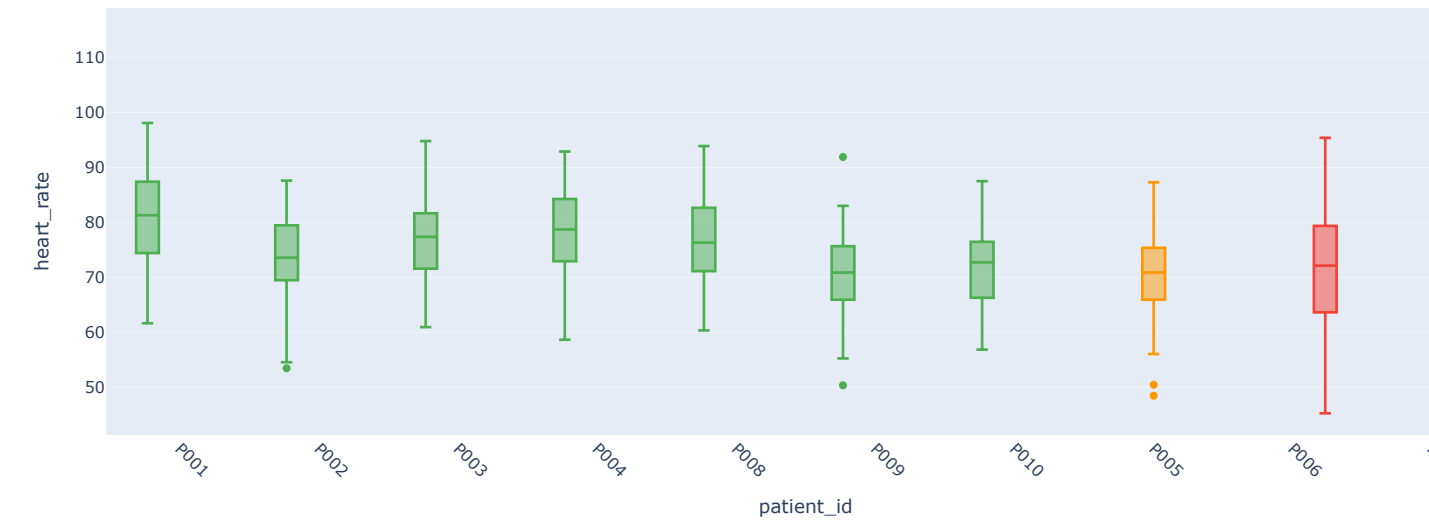
Generating Vital Signs Distribution...

Vital Signs Distribution



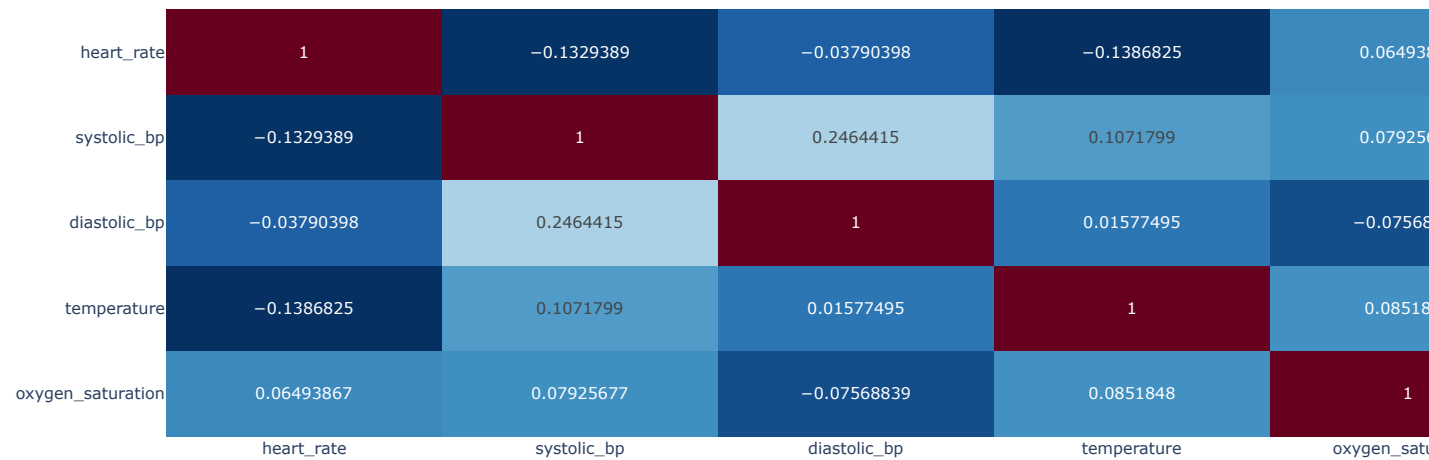
Generating Patient Comparison...

Heart Rate Distribution by Patient



Generating Correlation Analysis...

Vital Signs Correlation Matrix



Performing Risk Assessment...
=== PATIENT RISK ASSESSMENT ===

Patient: P001
Overall Risk: LOW
Risk Score: 1
Last Assessment: 2025-08-05 11:23:10.944446
Active Alerts:
• WARNING: Temperature = 99.8

Patient: P002
Overall Risk: LOW
Risk Score: 1
Last Assessment: 2025-08-05 11:23:10.944446
Active Alerts:
• WARNING: Diastolic Bp = 94.8

Patient: P003
Overall Risk: LOW
Risk Score: 0
Last Assessment: 2025-08-05 11:23:10.944446
No active alerts

Patient: P004
Overall Risk: LOW
Risk Score: 1
Last Assessment: 2025-08-05 11:23:10.944446
Active Alerts:

- WARNING: Diastolic Bp = 53.2

Patient: P005
Overall Risk: LOW
Risk Score: 0
Last Assessment: 2025-08-05 11:23:10.944446
No active alerts

Patient: P006
Overall Risk: LOW
Risk Score: 2
Last Assessment: 2025-08-05 11:23:10.944446
Active Alerts:

- WARNING: Systolic Bp = 87.7
- WARNING: Temperature = 99.2

Patient: P007
Overall Risk: LOW
Risk Score: 2
Last Assessment: 2025-08-05 11:23:10.944446
Active Alerts:

- WARNING: Temperature = 96.7
- WARNING: Oxygen Saturation = 94.4

Patient: P008
Overall Risk: LOW
Risk Score: 0
Last Assessment: 2025-08-05 11:23:10.944446
No active alerts

Patient: P009
Overall Risk: LOW
Risk Score: 0
Last Assessment: 2025-08-05 11:23:10.944446
No active alerts

Patient: P010
Overall Risk: LOW
Risk Score: 1
Last Assessment: 2025-08-05 11:23:10.944446
Active Alerts:

- WARNING: Temperature = 99.4

=== RISK SUMMARY ===

| Patient | Risk Level | Risk Score | Alert Count |
|---------|------------|------------|-------------|
| P001 | low | 1 | 1 |
| P002 | low | 1 | 1 |
| P003 | low | 0 | 0 |
| P004 | low | 1 | 1 |
| P005 | low | 0 | 0 |
| P006 | low | 2 | 2 |
| P007 | low | 2 | 2 |
| P008 | low | 0 | 0 |
| P009 | low | 0 | 0 |
| P010 | low | 1 | 1 |

=====
Dashboard loaded successfully!

Available methods:
- dash.plot_heart_rate_trends(patient_ids=['P001', 'P002'], days_back=7)
- dash.plot_patient_comparison(vital_sign='systolic_bp')
- dash.generate_risk_assessment(patient_ids=['P001', 'P002'])
- dash.export_data('my_export.csv')

Use dash.data to access the DataFrame directly