



용인세브란스병원
YONGIN SEVERANCE HOSPITAL

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- Opened:** March 1, 2020
- Location:** Yongin, South Korea
- Facility Size:** 72,000 m²
(13 floors above ground, 4 underground)
- Capacity:**
 - Yongin site : 708 beds
 - 33 medical departments
 - Hospital group : 2500+ beds
- Annual Patient Volume:**
 - 2.5 million outpatients
 - 840,000 inpatients



"Yongin Severance will be transformed into an entirely digital hospital [...] Doctors and nurses will do less work but more efficiently."

- Choi Dong-hoon, Hospital General Director, KBR (<https://www.koreabiomed.com>)

"This is the best network system we are proud of."

- 박진영 부학장



Our comprehensive Smart Hospital offer and implementation at Yongin Hospital in a 10-min video!

Yongin Severance Hospital

Precision Tracking with RTLS for Smarter Care

Inpatient & Staff Monitoring • Asset Tracking & Utilization Optimization • Medical Refrigerator Temperature Monitoring • Outpatient Flow Monitoring • Contact Tracing

KEY OBJECTIVES

- Prevent unauthorized patient movement.
- Enhance patient safety through real-time monitoring.
- Minimize time searching for medical equipment.
- Reduce outpatients waiting times.
- Prevent medical supplies spoilage.
- Improve medical staff efficiency by reducing non-clinical workload.

SOLUTIONS DEPLOYED

Timeline : 6 months



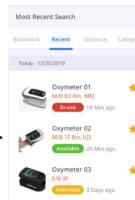
PATIENT AND STAFF MONITORING

- BLE-enabled wristbands for inpatients, badges for staff for real-time tracking. 2600+ units deployed
- Automated alerts for unauthorized movement
- SOS button for emergency alerts, directly notifying nurses.
- Enhanced workflow efficiency with location-based automation.



ASSET TRACKING & UTILIZATION

- Tracking of 10 types of critical medical equipment (e.g., infusion pumps, wheelchairs, patient monitors, vacuum aspirators). 400+ units deployed
- Data-driven insights to optimize asset distribution across departments.
- Theft prevention through geofencing. (alerts when medical assets leave designated areas)
- Custom heatmaps & usage patterns for medical devices to optimize inventory placement.



STAFF EFFICIENCY ENHANCEMENT

- Nurses equipped with mobile apps for immediate access to patient and asset locations.
- Integration with nurse call systems for immediate staff response.
- 24/7 location-based emergency response system for staff safety.



SYSTEM ARCHITECTURE & INTEGRATION

- Integration with the hospital's existing information systems.
- AP infrastructure (hospital network) enables wireless tracking without additional wired infrastructure. 528 BLE receiver units deployed across the hospital.

40%
non-clinical
workload reduction

> Staff can
focus on
patients

30%
Loss/stolen
equipment
reduction

> significant cost
savings

Asset retrieval
time divided
by

÷3

Immediate
alerts for
high-risk patient
movements
24/7

