Adapting building and equipment for the future

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New viruses affects hospital environment and service

2009 A(H1N1) pdm09
Novel swine-origin influenza A(H1N1)

2015 MERS
Middle East respiratory syndrome coronavirus

2019 COVID-19
SARS-CoV-2: Coronaviridae
Crisis turned into opportunity for innovation
5 Key Trends
Key Trend 01

Sustainable and Systematic Transformation

• Need of space like ‘Transformers’

• Establishment of space and system that maintains general functions in normal situation, but in case of emergency, it can be transformed into suitable conditions including space, facility, process, equipment, etc

• Increase space efficiency and operate all spaces systematically
Key Trend 01

Sustainable and Systematic Transformation
Key Trend 02
Visiting patients with portable devices and service

• Equipment, medical staff and services all come to the patient’s bedside for examination, treatment, and recovery

• Safely provide services by reducing transfer of patients those who are isolated, high-risk of fall and infection

• Securing enough space for moving and using portable equipment and developing system to transmit and utilize data from portable devices
Key Trend 02

Visiting patients with portable devices and service

General Electric Healthcare XR 240 - mobile X-Ray systems
Siemens Healthineers ‘SOMATOM’ - Portable CT Scanner
REMEDI Digital X-ray
Key Trend 03

Space-Free Communication System

• Communication system between Patient-Medical staff-Families under non-face-to-face circumstances regarding patient care, communication, and interaction

• Not a monitoring system, but needs of interactive communication system and equipment anytime, anywhere

• Provide physical and emotional care by supporting fast and smooth interaction system
Key Trend 03

Space-Free Communication System
Key Trend 04

Introduction of IoT technology equipment and system

• Establish a robot logistics management system with IoT technology that enables real-time tracking of patients, visitors and other objects in hospitals

• Facilitates fast epidemiological investigation in case of emergency

• Lower the risk of contamination and increase work efficiency by adapting autonomous logistics robots for sample transfer, moving to contaminated areas, etc.
Key Trend 04

Introduction of IoT technology equipment and system
Key Trend 05

People-centered innovative thinking and holistic care

• Derive innovative insights from understanding people including patients and their families, and medical staff

• Holistic care considers whole person, not just aspects

• Keep trying to understand PEOPLE
Key Trend 05

People-centered innovative thinking and holistic care

[Sup-maru] Waiting → Healing

[Hae-maru] 3 ‘NO’s: No bars, No confinement, No Prejudice
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Disclosure of Commercial Interest

- Name of Commercial Interest: CANCERROP
- Nature of Relationship w/ the Commercial Interest: President of CANCERROP
- Profile of Commercial Interest: CANCERROP is a South Korean molecular diagnostics company with its own molecular diagnostic research institute and an internationally certified GMP facility