

## Global Congress on Integrated Healthcare

A joint Conference in Collaboration with United Research Forum, UK and Mutah University, Jordan

**Under The Patronage of his Excellency Dr Yousef Goussous**

**May 15 - 16, 2022 | Hotel Crowne Plaza Dead Sea, Jordan**



### Walk-Through screening system for COVID-19

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#### Abstract

The ongoing COVID-19 pandemic has dramatically increased the number of individuals to be tested. We have developed a walk-through screening system to cope with this situation. The Safe Assessment and Fast Evaluation Technical booth of the H Plus Yangji Hospital (SAFETY), is a negative pressure booth that is inspired by the biosafety cabinet class 3. SAFETY has an area of 1.0 m<sup>2</sup> and a height of 2.0 m<sup>3</sup>, and is made of a stainless steel frame with polycarbonate walls and a mobile negative pressure device including a HEPA filter. We implemented a Walk-through (WT) screening center using 4 SAFETYs. To reduce the risk of cross-infection, we developed an automatic ventilation and disinfection system for each SAFETY, established a reservation system, and allowed patients to fill out electronic questionnaires through mobile phones. We use a safe environmental disinfectants certified by the US and Korean governments. From March 10, 2020, when we started operating the WT clinic, we have been monitoring crossinfection through epidemiological investigations and real-time polymerase chain reaction testing of environmental samples. Currently, the WT clinic is screening more than 200 patients within 8 hours, but to date, there has not been a single case of cross-infection of COVID-19. The WT system not only increases patient access to examination clinics, but also increases access to medical institutions, keeps medical staffs and patients safe, while reducing the consumption of personal protective equipment and staff fatigue. In the COVID-19 pandemic, a walk-through system using SAFETY can test patients faster, safely, and efficiently.

**Keywords:** Walk-through; Testing; SARS-CoV-2; COVID-19

#### Biography

Dr. Lee received Medical Degree from the Eulji University. He completed internship and residency training in Internal Medicine at Kangbuk Samsung Hospital, Sungkyunkwan University and fellowship training in Division of infectious disease, Department of Internal medicine at Samsung Medical Center, Sungkyunkwan University. Now he is the Director of Division of infectious disease, Department of Internal medicine, and the manager of infectious control team of H PlusYangji Hospital since 2016.