

## **Project Title**

Using Digital Twin for Infectious Disease Surveillance and Outbreak Investigations

## **Project Lead and Members**

**Project Lead:** Indumathi Venkatachalam

**Project Members:** Indumathi Venkatachalam, Chow Weien, Sean Douglas Whiteley

Maybelle Auw, Neo Siow Leng, Jean Sim Xiang Ying, Shalvi Arora, Edwin Philip

Conceicao, Daniel Tiang Chuanwen, Sarah Yong, Cheong Kin Meng Joseph

Lim Wee Kiong, Asfak Mundayadankandy Puthiyapurayil, Cai Yiyiing, Nicholas Graves

## **Organisation(s) Involved**

Singapore General Hospital and Changi General Hospital

## **Healthcare Family Group Involved in this Project**

Healthcare Administration

## **Applicable Specialty or Discipline**

Infectious Diseases, Public Health, Medical Social Workers, Healthcare Administrator

## **Project Period**

Start date: Not Provided

Completed date: Not Provided

## **Aims**

- Aim to develop a prototype system to promptly identify persons with infectious disease exposures and to detect infectious disease clusters

## **Background**

See poster appended/ below

## **Methods**

See poster appended/ below

## **Results**

See poster appended/ below

## **Lessons Learnt**

See poster appended/ below

## **Conclusion**

See poster appended/ below

## **Additional Information**

NHIP 2023 – Best Practice Medal (Automation, It & Robotics Innovation)

## **Project Category**

Technology

Digital Health, Data Analytics, Artificial Intelligence, Big Data, Data Modelling, Data Visualization

## **Keywords**

COVID, Contact Tracing, 3D Modelling, Modeling, Acute Respiratory Illness (ARI), Infectious Disease Cluster, 4D-DOSS

## **Name and Email of Project Contact Person(s)**

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