

# **Intelligent Health Care System**

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## **Summary**

### **Purpose and importance of study for the UAE**

The aim of this project is to develop an intelligent health care system for disease control and management at the country level in UAE. Using machine learning and data mining, our proposed system will serve as a vulnerability assessment index for better disease treatment and control

### **Study key points**

Develop an innovative smart healthcare and disease management system for disease management, detection and forecasting. Improve management and control of future outbreaks

Provide real time analytics using data mining and machine learning about patients and disease and future behaviors of the disease based on data collected about the pertains, symptoms and disease features.

### **Methods and Findings**

This project will use a triangulation approach utilizing both qualitative and system design methods. **The first phase** is developing a framework for ML and data mining techniques in healthcare based on current and up to date literature

The second phase will rely heavily on data mining and in order to formulate the most appropriate research model. The second phase will include developing and designing the main MC learning equations, models and approaches that will be used to detect, diagnose and control the disease.

with their characteristics (Knowledge Discovery). which will help to shape new knowledge and take real time actions. This can help shape new knowledge about the disease and help control the epidemic by supporting the government to take real time actions.

### **Recommendations and expected outcomes**

This project is aligned with the main priority areas and agenda of UAE Government including world class health care and competitive knowledge economy by enhancing health care services and management and by developing new knowledge about the disease and pandemic control. The proposed smart system will not only be helpful to avoid the spread of the disease and reduce the contamination, but it is also a cost-efficient way to mitigate the burden on health care systems and the financial and resources impact on health care providers in UAE.