Department of Health Informatics and Data Science and Center for Health Outcome and Informatics Research

HEALTH INFORMATICS SEMINAR SERIES
Presents:

"Artificial Intelligence Can Predict the Risk of ARDS, ICU Admission, and Mortality in Patients Presenting to Emergency Department During the COVID-19 Pandemic"

Abstract: The novel SARS-CoV-2 (COVID-19) has quickly spread globally and was classified as a world pandemic and has substantially increased the influx of people admitted to the emergency department (ED). COVID-19 infection has been directly related to development of acute respiratory distress syndrome (ARDS) and severe infections lead to admission to intensive care and can also lead to death. Dr. Butler will present this CHOIR-funded project which demonstrates the clinical data available at time of admission to ED can be used in machine learning models to assess possible risk of ARDS, need for ICU admission as well as risk of mortality. In addition, chest radiographs can be inputted into deep learning models to further assess the development of ARDS, need of ICU admission and risk of death.

Speaker: **Liam Butler, PhD**
Postdoctoral Research Associate, Health Informatics and Data Science
Loyola University Chicago

When: **Wednesday, June 23, 2021   11:00 am – 12:00 pm**

Join via Zoom Link: https://luc.zoom.us/j/88067078491

About the Speaker: Dr. Butler received his Ph.D. in Biology in 2019 from Newcastle University, UK. His background has primarily been in using different statistical, modelling and artificial intelligence techniques to address numerous biological questions ranging from ecology to public health and health informatics. He is a Postdoctoral Research Associate at Loyola University Chicago in Dr. Oguz Akbilgic's lab. He has been working on different projects using machine learning and deep learning techniques to predict and assess health outcomes including stroke, heart failure and more recently COVID-19 infections and the development of acute respiratory distress syndrome.

Approval: This educational activity conforms to the guidelines required for an educational program to receive CME Category 1 credit. Your activity was approved for 1 category 1 credits towards the AMA Physician's Recognition Award.

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