Real time data monitoring: integrated data for monitoring heat-health emergencies

Dr Kieran Moore MD CCFP (EM) FCFP MPH MSc FRCPC
Associate Medical Officer of Health
Associate Professor of Emergency Medicine, Queen’s University
KFLA Public Health
Objectives

• Review PHIMS and ACES functionality
• Address data elements that enhance situational awareness
• Describe how the system may help health system decision making
Rationale for PHIMS

• Initially designed for the senior management team for Situational awareness and decision support to integrate data

• PAST: Disparate data, no synoptic view → integrated dashboard with data fusion

• PAST: Weak analytics → real-time data w/ tabulations, reporting, statistical graphics, and geovisualizations
phims.kflaphi.ca

PASSWORD: qphi
Social Determinants of Health (SDOH) Mapper
http://www.kflaphi.ca/sdoh
Timelines of Detection

Exposure

Symptoms

Behaviour (visit ER, buy medication, call telehealth, visit doctor)

Data capture and processing (ER, OTC etc)

EDSS – data capture

Alert generated

Public health investigation

Alert and public health Action if appropriate

Public health intervention
Data Collected

• Collect real-time anonymous data from...
  – *Emergency Department* visits
    • Date and Time of Visit
    • Hospital
    • Age
    • Sex
    • Postal Code (5 digits)
    • Chief Complaint
    • CTAS Triage Score
  – *Admissions* to hospital
Midland Tornado
ACES (RT Choropleth for Multiple Geographies)
ACES (RT Multi-Resolution Heat Maps)
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