Can innovation help improve the standard of care everywhere?

Research and clinical management of patients during outbreaks: Updates and priorities

Srinivas Murthy, MD MHSc
University of British Columbia

The 3rd Global Research and Innovation Forum
Key achievements

Focusing on improving supportive care

The research that changes the lives of patients is driven by questions centred on clinicians, health systems, and patients.
Key achievements

Focusing on evidence to improve supportive care
Key achievements

Focusing on prioritizing what supportive care elements in what population are important

- Transparent prioritization process with true engagement of communities
- Integrating pre-hospital, hospital, and post-hospitalization populations
- Evaluating novel interventions, processes of care, and other care strategies
Key achievements

Building a research infrastructure centred on trust

The research that changes the lives of patients is built on trust and collegiality between the researchers.
Key achievements

Focusing on research preparedness

The research that changes the lives of patients is done by regions and institutions where they have done research before.
Key achievements

Focusing on merging clinical and research and public health work

The research that changes the lives of patients is integrated into health systems and public health infrastructure for surveillance.
Key achievements

Focusing on research coordination

The research that changes the lives of patients is done using pre-established tools such as outcome sets, common data variables, and standardized risk-assessments.
Key achievements

Focusing on research data infrastructure

Having the database and case report forms operational and useful before the next pandemic/outbreak.
Future research priorities
Future research priorities

Optimizing supportive care for acutely ill patients

• Improving access to research in acute care, to improve quality

• Prioritizing questions that are **globally** relevant for global evaluation

• And prioritizing questions that are **locally** relevant for local evaluation

• Constantly asking (and answering) research questions for severely ill patients around the world, to
  
  o i) **improve standards of care** for the next pandemic; and
  
  o ii) improve research capabilities for the next pandemic – for research on supportive care, health systems, and novel interventions
Big research idea

Globally representative clinical surveillance and clinical data infrastructure that can immediately pivot to interventional research.
Big research idea

Federated with common variable sets and common data dictionaries, under local control, trial-ready, with international sharing when necessary.
Acknowledgements

- InFACT Toronto meeting collaborators
- Global clinical platform
- ISARIC
- Janet Diaz and the Clinical management team (WHE)