A rapid review of machine learning approaches for telemedicine in the scope of COVID-19

The COVID-19 pandemic forced widespread conversion of in-person to virtual care delivery through telemedicine. This article reviews machine learning-based telemedicine applications to mitigate COVID-19. Authors developed an updated taxonomy and identified challenges, open questions, and current data types, to improve telemedicine in response to the COVID-19 pandemic. The evidence identified by this review suggests that machine learning, in combination with telemedicine, can provide a strategy to control outbreaks by providing smart triage of patients and remote monitoring.


Selecting Performance Indicators and Targets in Health Care: An International Scoping Review and Standardized Process Framework

The purpose of this study is to synthesize international approaches to indicator selection and develop a standardized process framework. Authors developed the 5-P indicator selection process framework to mitigate process risks and support high-quality indicator selection processes. The 5-P indicator selection process framework consists of five domains and 17 elements.

Safety-netting has become best practice when dealing with diagnostic uncertainty in primary care. Its use, however, is highly varied and a lack of evidence-based guidance on its communication could be harming its effectiveness and putting patient safety at risk. Effective safety-netting (SN) advice should be tailored to the patient and provide practical information for self-care and re-consultation. Authors presented 15 recommendations to enhance communication of safety-netting advice and map these onto established consultation models.


**DURING CONSULTATION**

- **Personally relevant, tailored information (CMOC1)**
- **Transparency in diagnostic/decision making process and uncertainty (CMOC 2&3)**
- **Clarity of self-care actions and causes for concern with an explicit invitation to return (CMOC5)**
- **Addressing patient expectations, concerns, and barriers to SN adherence (CMOC4)**
- **Advice that is practical, comprehensible, memorable, and provided in a way that can be revisited (CMOCs 6, 7, & 8)**
- **Receptiveness affected by personal medical history or national health crises (CMOC11 a&b)**
- **Feeling seen, heard, and taken seriously**
- **Ownership of SN plan negotiated**
- **Rationale of follow-up plan explained (COMC18)**
- **Agreement on plan with an explicit invitation to return (CMOC 19 & 20)**
- **Patient accepts SN plan**
- **Patient is able to follow SN plan**
- **Advice documented in detail (CMOC22)**
- **Future clinicians aware of SN plan**
- **Patient followed up in an appropriate time frame**
- **Patient capability considered**

**AFTER CONSULTATION**

**SN = safety-netting**

Programme theory of safety-netting. CMOC (context, mechanism and outcome configuration).