Assistant Deputyship of Planning and Organizational Excellence General Directorate of Research and Studies

Periodical Bulletin

For Recent Trending Scientific Publications of Health Systems & Health Policies



THE INSIGHTS

July (I) 2022

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

The COVID-19 pandemic forced widespread conversion of inperson to virtual care delivery through telemedicine. This article review 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.

*Schünke LC, et al. Artificial intelligence in medicine. 2022; 129:102312.





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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.

*Heenan MA, et al. Risk management and healthcare policy. 2022; 15:747-764.

2



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SOMAINS

LEMENTS

Purpose

Clarify Aim

Develop Guiding Principles

Identify Level of Use

Polity

Build Governance

Recruit Participants

Structures

Prepare

Seek End-User Input

Research Evidence-Based Literature

Build an Inventory of Potential Indicators

Categorize Potential Indicators into Strategic Themes

Orient and Train Participants

Procedure

Utilize a Consensus Building Method

Identify a Facilitator

Establish Indicator Selection Criteria

Analytically Assess Indicators

Set Indicator Targets

Prove

Assess Data Quality

Validate with End-Users

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THE INSIGHTS

July (I) 2022

Optimising GPs' communication of advice to facilitate patients' self-care and prompt follow-up when the diagnosis is uncertain: a realist review of 'safety-netting' in primary care

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.

*Friedemann Smith C, et al. BMJ quality & safety. 2022; 31(7): 541-554.



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Agreement on plan with an explicit invitation to return

(CMOCs 19 & 20)

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) Advice given consistently (CMOC10)

Receptiveness affected by personal medical history or national health crises (CMOC11 a&b) Additional care and attention

paid in remote consultations (COMCs 12, 13. & 14)

Informed,

empowered patient

TWO-WAY COMMUNICATION: Discussion, questioning. checking understanding, and shared decision making recognising the patient as an expert (COMCs 15, 16, & 17)

Credible clinician

Feeling seen, heard, and taken seriously

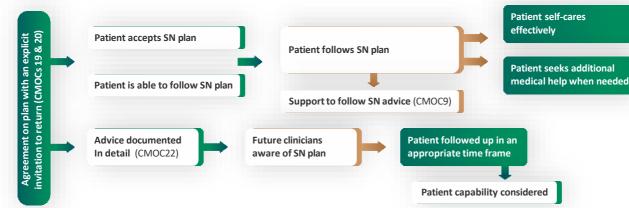
Ownership of SN plan negotiated

Rationale of follow-up plan explained (COMC18)

SN = safety-netting

Sufficient time (CMOC21)

AFTER CONSULTATION



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