Use of clinical practice guidelines

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In society, guidelines shape the behaviour and steer the activities of people and organisations in all aspects of daily routine. In the clinical setting, professional care and services are often dictated by clinical practice guidelines (CPGs) on topics from screening, assessment, and diagnosis to management of common and specific conditions. There are also CPGs for unusual emerging pandemics: in the case of coronavirus disease 2019 (COVID-19) the World Health Organization has published extensive advice.1

According to the National Institute of Health and Care Excellence of the United Kingdom, CPGs contain evidence-based recommendations on the ways healthcare professionals should care for people with defined conditions. Such recommendations are derived from the best available evidence. In addition, CPGs are also of importance to health services operators and managers as such guidelines are essential for quality care.2

Effective CPGs are derived from evidence-based medicine, and should be built on the best available published research findings and experience gained from clinical practice. To achieve the optimal usage of CPGs, healthcare professionals should understand the principles of development and evaluation of the guideline. The AGREE II guidelines and associated reporting checklist is considered the international gold standard for developing and evaluating CPGs.3 Quality, relevance, and strength of the best available evidence are examined in detail with a multidisciplinary approach when making recommendations for clinical management. Ideally, CPGs are embedded with flexibility and adaptability to allow for a wide dissemination and adoption. In addition, potential economic implications should not be overlooked.4 Practically, CPGs should be subject to regular structured evaluation and revision to encompass the latest state-of-the-art of clinical practice, new research evidence, current medical advancement, and changed patient values.

Topics of CPGs are often selected on the basis of priorities in quality improvement opportunities in medical practice because physicians are expected to provide their patients a certain standard of care. In a review of CPGs, consensus statements, and position statements from various specialties, the authors found that to achieve the optimal benefits from providing the best possible and quality care to the community, topics of CPGs should cover common conditions that doctors encounter regularly.5 In this issue of the Hong Kong Medical Journal, Chan et al from the Hong Kong College of Physicians, representing sub-specialties in Cardiology, Nephrology, Geriatric Medicine, Neurology and Endocrinology, review two recent CPGs from America and Europe on hypertension, both of which have adopted a risk-based approach to treatment.6 On the basis of these guidelines, the authors have developed a Position Statement on the classification of blood pressure, measurement of blood pressure, initiation of medications, treatment targets and strategies, together with particular considerations for geriatric, renal, and diabetic patients.6 In general, the authors concur with the 2018 European Society of Cardiology/European Society of Hypertension guideline, and also note that the reviewed guidelines have helped to improve public awareness of hypertension and the importance of lifestyle changes in managing hypertension.

Physicians use CPGs when making clinical decisions, often with discussion with the patient in some settings, about the appropriate care and management of specific conditions or diseases. Reviewing CPGs published in the Hong Kong Medical Journal, some have provided guidance on disease screening and prevention,7 whereas others have offered a broad range of clinical topics from management of common clinical complaints to controversial issues based on the most updated evidence.7-13 Guidelines include concise recommendations and instructions for diagnosis, tests, treatment options, drug therapy, management algorithms that may direct the choice of medical, and surgical or other clinical services.14 Because CPGs are never perfect and evidence on their effectiveness is incomplete,14 when making clinical decisions, doctors also consider their experience and knowledge through years of practice and insights gained from the many cases encountered and managed previously. Therefore, most doctors have developed an individual approach to patient management without consciously thinking about CPGs. However, CPGs are useful when dealing with uncommon conditions or diseases unfamiliar to the practitioner, as well as in controversial clinical situation. Under such circumstances, there is a high
level of uncertainty as to the outcomes of clinical courses being available or considered, such as the current COVID-19 pandemic.

Adherence to CPGs in clinical practice is not mandatory. However, the Medical Council of Hong Kong has some guidelines to doctors in the Code of Professional Conduct, “the little red book”, with the intention to promote good clinical practice. There are guidelines on the proper prescription and dispensing of dangerous drugs, ethics (covering communication and dissemination of information to the public and patients), adoption of new medical procedures and human reproductive technology, as well as on practice management including signboards, service information notices, and doctors directory. In addition, legal considerations are practical issues when CPGs are not fully followed or when treatment recommended in CPGs is not offered to the patient. Following the advice found in CPGs may provide a means of protection to the doctor, as CPGs prescribe reasonable conduct expected of medical practitioners who are also expected to provide sufficient information to the patient, particularly about risks involved in a clinical decision.

Some CPGs contain definitive recommendations whereas others are more general, to allow for the clinical judgement of the practitioner, and therefore carry a smaller risk of liability. Generally, groups who develop CPGs, such as members of a working group, are not usually held liable for the application of CPGs. Furthermore, use of CPGs as evidence in court depends on how the guidelines are developed and whether they are up to date. Good CPGs should have a strong research evidence base, should have undergone independent review, should have built-in flexibility for adoption in different clinical situation, and should carry an expiry date. Practitioners should have adequate understanding of the salient points in CPGs to fully exploit the guidelines in clinical settings.

The purpose of CPGs is to improve the health and condition of patients, not only as individuals but also as members of the community, particularly when society is facing escalating costs of health services and medical technologies, ageing populations, increasing demands and expectations of users, inconsistent service quality of providers, and even inappropriate care. Use of CPGs by physicians in clinical practice can lead to more structured and consistent decisions and care delivery in a more objective manner, supported by the embedded evidence. The Primary Healthcare Office of the Hong Kong SAR Government has published four reference frameworks on disease management of hypertension and diabetes, and on preventive care for children and elderly patients. The frameworks aim to facilitate family doctors to provide continuing comprehensive and evidence-based care in the community. In the code of practice to private hospitals and clinics, the Department of Health demands that these institutions comply with guidelines and standards issued by professional and government bodies, and that CPGs must be easily accessible and available to staff for their reference.

Doctors should use appropriate CPGs in their daily practice for the benefit and better quality of life of their patients. However, CPGs must not be regarded as the absolute consensus recommendations with answers to all clinical situations. Intrinsic shortcomings in the development of guidelines are not uncommon. Patients are not all the same; they vary in personal characteristics and responses to treatments. Moreover, doctors differ in their clinical judgement. Use of CPGs by physicians is still very much the core of medicine, being both an art and a science.

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References
Clinical practice guidelines are systematically developed statements to assist practitioner and patient decisions about appropriate health care for specific clinical circumstances. Issued by third-party organizations, and not NCCIH, these guidelines define the role of specific diagnostic and treatment modalities in the diagnosis and management of patients. The statements contain recommendations that are based on evidence from a rigorous systematic review and synthesis of the published medical literature. These guidelines are not fixed protocols that must be followed. Clinical practice guideline recommendations focus on the efficacy or comparative effectiveness of specific interventions. The guideline panels address questions related to how interventions are delivered, including the role of common and nonspecific factors, in the broader discussions that surround the recommendations within the guideline documents. However, studies using such designs often still carry a high risk of bias and lack generalizability, and are not broadly accepted as providing strong support for efficacy or comparative effectiveness. What are the characteristics of the RCTs used in developing APA's guidelines? Diversity of participants. For the PTSD guideline, 92 studies were included in the systematic review.

Clinical Practice Guidelines are developed by experts and form the basis for development of patient-driven protocols delivered by respiratory therapists. AARC Retired Guidelines (alphabetically). Guidelines from Other Organizations â€“ Current evidence-based guidelines, statements, and consensus reports (by topic). Additional guidelines are available at the National Guideline Clearinghouse. Evidence-Based Clinical Practice Guidelines. AARC Clinical Practice Guideline: Management of Pediatric Patients with Tracheostomy in the Acute Care Setting (2021). PDF. AARC Clinical Practice Guideline: Management of Adult Patients with Tracheostomy in the Acute Care Setting (2021). PDF. APA practice guidelines provide evidence-based recommendations for the assessment and treatment of psychiatric disorders and are intended to assist in clinical decision making by presenting systematically developed patient care strategies in a standardized format. APA makes the practice guidelines freely available to promote their dissemination and use; however, copyright protections are enforced in full. No part of these guidelines may be reproduced except as permitted under Sections 107 and 108 of the United States Copyright Act. For permission for reuse, visit our Permissions and Licensing... Â – Treatment of Patients with Schizophrenia. Practice Guideline (Dec 2019) (online and .pdf versions). Purchase a hard copy from APA Publishing here.