19 - Consensus Recommendations on Dosing and Administration of Medical Cannabis to Treat Chronic Pain: Results of a Modified Delphi Process

Arun Bhaskar¹, Alan Bell², Michael Boivin³, Wellington Briques⁴, Matthew Brown^{5,6}, Hance Clarke⁷, Claude Cyr⁸, Elon Eisenberg⁹, Ricardo Ferreira de Oliveira Silva¹⁰, Eva Frohlich¹¹, Peter Georgius¹², Malcolm Hogg¹³, Tina Ingrid Horsted¹⁴, Caroline A. MacCallum¹⁵, Kirsten R. Müller-Vahl¹⁶, Colleen O'Connell¹⁷, Robert Sealey¹⁸, Marc Seibolt¹⁹, Aaron Sihota²⁰, Brennan K. Smith²¹, Dustin Sulak²², Antonio Vigano²³, <u>Dwight E. Moulin²⁴</u>

¹Pain Management Centre, Imperial College Healthcare NHS Trust, London, United Kingdom. ²Department of Family and Community Medicine, University of Toronto, Toronto, Ontario, Canada. ³CommPharm Consulting, Barrie, Ontario, Canada. ⁴Canopy Growth Corp, São Paulo, Brazil. ⁵Department of Pain Medicine, The Royal Marsden Hospital, London, United Kingdom. ⁶The Institute of Cancer Research, London, United Kingdom. ⁷Department of Anesthesia and Pain Medicine, Toronto General Hospital, University Health Network, University of Toronto, Toronto, Ontario, Canada.⁸Department of Family Medicine, McGill University, Montreal, Quebec, Canada. ⁹Institute of Pain Medicine, Rambam Health Care Campus, The Technion, Israel Institute of Technology, Haifa, Israel. ¹⁰Director at Vertebralis Spine Center, Rio de Janeiro, Brazil. ¹¹Department of Anaesthesiology and Pain Management, Helen Joseph Hospital, Johannesburg, South Africa. ¹²Pain Rehab, Suite 4 Noosa Central, 6 Bottlebrush Avenue, Noosa Heads, QLD 4567, Australia. ¹³Department of Anaesthesia and Pain Management, Royal Melbourne Hospital, Melbourne, Australia.¹⁴Rheumatology, Danish Hospital for Rheumatic Diseases, Gråsten, Denmark. ¹⁵Faculty of Medicine, University of British Columbia, Vancouver, British Columbia, Canada. ¹⁶Hannover Medical School, Department of Psychiatry, Social Psychiatry and Psychotherapy, Hannover, Germany.¹⁷Department of Physical Medicine and Rehabilitation, Stan Cassidy Centre for Rehabilitation, Fredericton, New Brunswick, Canada. ¹⁸Cannabinoid Medicine Specialist, Victoria, British Columbia, Canada. ¹⁹Algesiologikum - Centers for Pain Medicine, Day Clinic for Pain Medicine, Munich, Germany.²⁰The University of British Columbia, Faculty of Pharmaceutical Sciences, Vancouver, British Columbia, Canada.²¹CTC Communications, Medical Division, Mississauga, Ontario, Canada.²²Integr8 Health, Falmouth, Maine, USA.²³Department of Oncology, McGill University, Montreal, Ontario, Canada.²⁴Departments of Clinical Neurological Sciences and Oncology, Earl Russell Chair in Pain Medicine, Western University, London, Ontario, Canada

Purpose

Chronic pain affects close to two billion people worldwide and is associated with impairment in physical and emotional function, reduced participation in social and vocational activities, and lower perceived quality of life.

Medical cannabis has been used to treat chronic pain for centuries. Patient-reported data across numerous geographies indicates that chronic pain management is one of the most common reasons for medical cannabis use. In patients with chronic pain, medical cannabis treatment has been associated with an improvement in pain-related outcomes, increased quality of life, improved function, and a reduced requirement for opioid analgesia.

The number of countries in which medical cannabis use is approved has increased in recent Additionally, the World Health Organization has moved to consider a rescheduling of cannat, international drug control framework to a less stringent schedule.

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Despite the storied history and increased global use of medical cannabis, systematic reviews and meta-analyses examining cannabinoids for treatment of chronic pain have reported low to moderate levels of evidence to support the use of cannabinoids for chronic pain. As a result of this evidence gap, there are limited scientific data to guide dosing and administration of medical cannabis in clinical practice.

To bridge the gap between a lack of evidence and increased use of medical cannabis, we have conducted a modified Delphi process with 20 medical cannabis leaders across nine countries to develop consensus-based recommendations for the safe and effective use of medical cannabis to treat chronic pain.

Methods

We conducted a multi-stage modified Delphi process. An initial clinical practice survey was sent out to a 20-member global task force to gain an understanding of how patients are being treated with medical cannabis across different countries. A draft of consensus questions was developed and reviewed twice by the 9-member scientific committee before being sent out to all task force members for two rounds of pre-voting. A threshold of ≥75% agreement was predetermined for declaring consensus. Following the pre-voting rounds, two virtual meetings were held to vote on the remaining key questions.

Results

There was consensus that medical cannabismay be considered for patients experiencing neuropathic, inflammatory, nociplastic, and mixed pain. Three treatment protocols were developed and categorized as: Routine, Conservative, and Rapid. The clinician and patient may choose to move between the protocols as necessary. Oral administration with oil or capsules was found to be the recommended administration format. If breakthrough pain management is necessary, dried flower vaporization was the found to be the recommended mode of administration.

The routine stream is designed for the majority of patients with chronic pain. The recommendations included: Initiate on CBD-predominant variety at a dose of 5 mg CBD twice daily. Titrate the CBD-predominant dose by 10 mg every 2 to 3 days until the patient reaches their goals, or up to 40 mg/day. At a CBD-predominant dose of 40 mg/day clinicians may consider adding THC at 2.5 mg and titrate by 2.5 mg every 2 to 7 days until a maximum daily dose of 40 mg/day of THC. When up-titrating either cannabinoid, the total daily dose can be divided in 2-4 administrations.

The conservative protocol is recommended for patients who may be more sensitive to medical cannabis effects and who would prefer to prioritize safety. Clinically frail patients, the elderly, those with complex comorbidities, polypharmacy, and/or mental health disorders, may also be appropriate for the conservative approach. The recommendations included:Initiate on CBD-predominant variety at a dose of 5 mg once daily. Titrate the CBD-predominant dose by 10 mg every 2 to 3 days until the patient reaches their goals, or up to 40 mg/day. At a CBD-predominant dose of 40 mg/day clinicians may consider adding THC at 1 mg/day and titrate by 1 mg every 7 days until a maximum daily dose of 40 mg/day of THC.

The rapid stream was designed for individuals who require more rapid titration or earlier initiation of THC such as patients with severe pain or functional impairment, or cannabis experienced patients. The recommendations included:Initiate on a balanced THC:CBD variety at 2.5-5 mg of each cannabinoid once or twice daily. Titrate by 2.5-5 mg of each cannabinoid every 2 to 3 days until the patient reaches his/her goals or to a maximum THC dose of 40 mg/day.

Conclusions

Our modified Delphi process lead by experts in the field of medical cannabis/cannabinoid m/ resulted in the development of three protocols for the dosing and administration of medical c to treat chronic pain. These results are intended to provide clinicians with safe and effective medical

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cannabis prescribing protocols and may be of great utility should medical cannabis be included in a patient's treatment regimen. It is important to note that every patient is different and medical cannabis treatment, like most other therapies, should be individualized to the patient. Shared treatment decision-making with the patient is important and establishing treatment goals during the initial medical consultation may enhance patient outcomes and adherence to medical cannabis treatment. Future randomized control trials examining the safety and efficacy of medical cannabis compared against current standards of care will be required to elucidate if the developed protocols result in improved patient outcomes. The recommendations provided will be updated as new clinical trial evidence becomes available to inform on the type of dosing and mode of administration of medical cannabis for the treatment of chronic pain.