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Abstract

The aAdvent of iImmune cCheckpoint iInhibitors (ICIs) have has significantly transformed cancer treatment outcomes, ; however, these this therapy can induce immune- -related adverse events (irAEs) that may affect any organ system, sometimes requiring specialisedspecialized expertise. As ICIs are being increasingly used across various tumourtumor types and in earlier treatment settings, not all practitioners have the necesarynecessary support network to handle complex irAEs. To address theise gaps, we collaborated with the ONCOassist, a leading app for oncology professionals, to establish the first virtual canadianCanadian Community of Practice (CoP) focused on irAEs. The CoP facilitates continuous learning and improvesed patient care among the Canadian clinicians treating patients with immuno-therapy for by providing a platform for knowledge exchange and peer- -to- -peer support. -This article talks about the growth and development that happened of the CoP in on irAEs, highlighting both successes and challenges. As of 2024May 2024 May, over an year since its inception, the CoP on irAEs has attracted almost one hundred thirty canadianCanadian oncology healthcare professionals, and peer-to-peer interactions and engagement continues to increase. To ensure its long- -term sustainability, we plan to evolve and adept adapt the CoP to meet the needs of the oncology community and address clinical challenges associated with new therapiesy .

Introduction

The advent of immune checkpoint inhibitors (ICIs) have has revolutionisedrevolutionized cancer treatment-, offerings new hope and significantly improved outcomes for patients;, however, these therapies can also led lead to iImmune-related aAdverse eEvents (irAEs), that require prompt recognition and eaffective management. Various oncology societies have issued guidelines for managing irAEs, and continuing education are is available through clinical rounds, invited speakers, and even a dedicated podcast series (i-MPACT Podcast). Despite our growingunderstandinggrowing understanding of irAE management, dysimmune toxicities can be unpredictable, and severe irAEs remain particularly challenging. In these instances, access to a network of subspeciality experts may be needed to assist oncologists in the diagnosings, treating, and monitoring of dysimmune toxicities.

With ICIs being increasingly approved in multiple indications across most tumor types, irAE management has become a significantly aspect of clinical practice. -An audit of

clinical practice from 2018 ~~and~~ to 2020 at the Cross Cancer Institute in ~~edmonton~~Edmonton ~~will~~ demonstrated that 25% ~~out patient~~outpatient department time was spent managing immune-related toxicities. Despite the widespread use ~~for~~ of ICIs, ~~toxecity~~toxicity management~~s~~ continues to be a highlighted need in educational assessments, thus forming the basis for initiating a Community of Practice on irAE management.

A C~~c~~ommunity of P~~p~~ractice (CoP) is a group of people who share a concern~~s~~ or a passion for something they do and learn how to do it better ~~thru~~ through regular interaction. Effective CoP encourages open communication, collaboration, and information sharing among its member~~s~~. In ~~the~~ healthcare, CoPs can facilitate learning and the exchange ~~in~~ of information or knowledge with the goal of improving practice. While many CoPs rely on face-to-face ~~meetings,online~~meetings, online forums or social media platforms offer the advantage of crossing institutional and geographical ~~boundary~~boundaries.

In ~~a~~ collaboration with ~~the~~ ONCOassist, a point-of-care application providing clinical tools used daily by oncology healthcare professionals, we initiated a pan-Canadian virtual Community of Practice (CoP) focused on managing chronic, rare, or acute irAEs.~~,~~ I~~i~~n a resource-constrained healthcare ~~enviroment~~environment, our goal was to create a platform that enables a ~~multi disciplinary~~multi-disciplinary approach to irAE management. ~~These~~ This platform allows ~~an~~ academic and community clinician~~s~~, as well as subspecialists involved in irAE management, to exchange ~~expertiseacross~~expertise across geographical boundaries, ultimately aiming to improve clinical management and patient~~'s~~ outcomes.

Conclusions

We have demonstrated the feasibility of a pan-~~canadian~~Canadian virtual CoP as a valuable feature within an o~~O~~ncology mobile app, enabling HCPs to exchange expertise across geographical boundaries~~.~~. The CoP on irAEs support~~s~~ collaborative learning, enhances knowledge ~~dissemination~~dissemination, and promotes a multi-disciplinary approach to irAE management. In resource-constrained healthcare systems, online communities offer a~~n~~ potentially accessible, wide reaching, and cost-effective intervention~~s~~ to facilitate clinical management and improv~~e~~ing patient outcomes. As this CoP grows and matures, future efforts focused on understanding the clinical impact and addressing evolving needs to sustain engagement.