Accelerating Innovations into CarE – Validate Program (AICE-Validate)

Assisting Physicians to Make Correct Diagnoses Using Artificial Intelligence

PROJECT FAST FACTS

RECIPIENT: Alethea Medical (previously ENTID)

PROJECT DURATION: 15 months

AWARD: $178,000

AWARD DATE: January 3, 2022

Alēthea

THE PROBLEM

Family physicians can struggle to diagnose common ear conditions, leaving them to choose between risking a misdiagnosis or waiting up to four years to refer a patient to a specialist. Part of the problem is that traditional medical tools offer poor visualization with no way to store or share images, despite the large price tag. Physicians can find it difficult to describe pathology over the phone or in a written referral to specialists. Moreover, many Canadians face barriers accessing specialist care from rural and remote regions.

THE SOLUTION

Alethea improves access to specialists through a streamlined eConsult platform powered by novel digital diagnostic devices that can be used in a physician's office. Alethea's device helps primary physicians to make the correct diagnosis with improved visualization and diagnostic assistance using artificial intelligence (AI). The computer-vision AIs can predict and identify ear disease, oral lesions, skin conditions, and vocal cord abnormalities based on audio recordings of a patient's voice.

PROJECT OBJECTIVES

Alethea's AICE Validate project is focused on final validation of their solution to enable regulatory approval. Specifically, project objectives are:

- Implementing a quality management system, which includes and procedures for ISO 13485, and internal audit thereof; and

- Submission of applications to Health Canada, the FDA, and CE (European Union) for approval.

ABOUT THE AICE-VALIDATE PROGRAM

AICE-Validate is an opportunity for Alberta's health-tech innovators to accelerate commercialization of digital and data-enabled health technologies through the early validation phase. If you'd like to learn more, please check out AICE Validate on the Alberta Innovates website.

Learn how

albertainnovates.ca