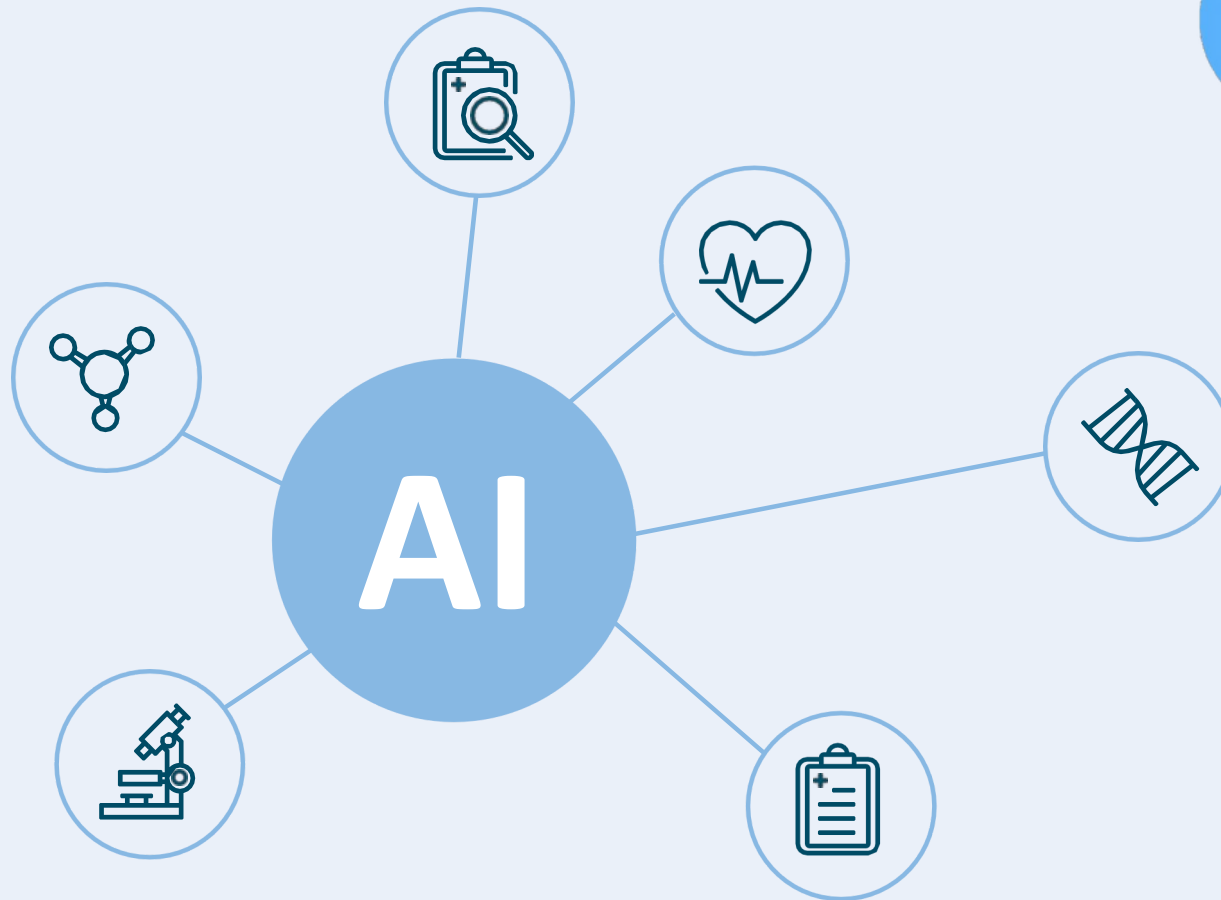




REVOLUTIONIZING THE DETECTION OF
RETINOPATHY THROUGH IMAGING

Design and marketing of artificial intelligence algorithms for image and clinical data analysis.

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REGULATORY

ENS
ISO 13485, 27001, 9000
EC DECLARATION OF CONFORMITY IN
ACCORDANCE WITH THE MEDICAL DEVICES
DIRECTIVE 93/42/EEC AND ITS AMENDMENT
2007/47/EC
HL7 FHIR



AN UNMET CLINICAL NEED

quantusRT-OCT is a non-invasive, fast, reliable, and easy-to-use test for the automatic detection of pathological markers corresponding to **microcysts and hyperreflective spots** in diabetic retinopathy. The images used will be optical coherence tomography (OCT) scans.

- Early diagnosis of these lesions makes all the difference. If detected in time, vision loss can be prevented.
- The social and personal cost of vision loss threatens to overwhelm health and social care systems.

By simply analyzing and classifying optical coherence tomography scans, quantusRT-OCT determines the number of slices from the 15-30 images that make up an **OCT study** that are predicted to be positive in just a few minutes.



NON-INVASIVE



SAFE

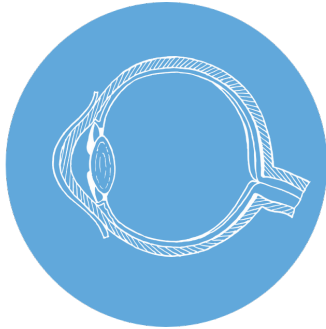


FAST



COMPATIBLE

How to use quantusRT-OCT?



1. Acquire optical tomograms



**2. Upload the sections to
the web application**



3. Obtain the results

Step 1: Acquire retinal slices

quantusRT-OCT requires an image in TIF or BMP format captured using a tomograph. A simple guide is available within the application showing how to perform these acquisitions.

How to use quantusRT-OCT?

Step 2: Use the web application to analyze images

This application is a simple tool that allows you to send the images you want to analyze to the system. To do this, you just have to follow three simple steps to complete the analysis:



Upload

Upload images to the web



Select

The images you want
to be analyzed



Send

The sample to be analyzed



Step 3: Obtain the application result in a few minutes via a results report.

When to use quantusRT-OCT

quantusRT-OCT automatically assesses the presence of **microcysts** and **hyperreflective spots** based on quantitative analysis of the textures of a set of OCT images.

One of its main features is that it can perform a **preliminary** and **follow-up** analysis of the patient, in order to analyze the development of the pathology and see if the number of cuts where microcysts and hyperreflective spots are detected has increased or decreased.

Its technology is based on the quantitative analysis of the texture of a set of **OCT images** using tomography. By simply analyzing and classifying the images, quantusRT-OCT determines the **probability** of microcysts and hyperreflective spots in a matter of minutes.

quantusRT-OCT has been designed with a clear focus on helping the population, being of great assistance in screening patients with risk factors, **monitoring** patients, and **prioritizing** waiting lists.



Why does quantusRT-OCT work?

The technology is based on performing a quantitative analysis of the texture of the set of **OCT images** obtained using a tomograph. This analysis allows patterns associated with specific pathologies to be identified and the risk of microcysts and hyperreflective spots in the eye to be determined.

The rise of **Artificial Intelligence** techniques, especially Deep Learning, has increased the number of studies using this type of algorithm in diagnostic ophthalmology.

quantusRT-OCT is presented as a novel Artificial Intelligence method based on state-of-the-art Deep Learning.

Several recently published studies show that the detection of microcysts and hyperreflective spots using trained deep learning models can achieve high accuracy in diverse populations and provides quantitative comparisons of how model performance can vary across datasets of different disease severity and ethnicity.



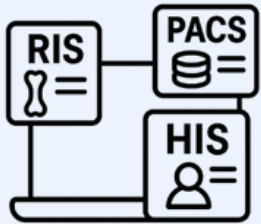
An unlimited experience



Unrestricted 24-hour **access**: With an internet connection, you can use quantusRT-OCT and review results anytime, anywhere.



No requires installation: or download of any type of software



Our service allows for seamless integration between **HIS**, **RIS**, and **PACS** systems, optimizing clinical work and ensuring centralized and secure access to medical information.



High compatibility: quantusRT-OCT is compatible with most web browsers as well as devices used in primary care practice.



RESTful web services: Compatible with HL7 FHIR



Pay-per-use: Pay only for each analysis you request

Collaborate with us





Developing tomorrow's medical technologies
today