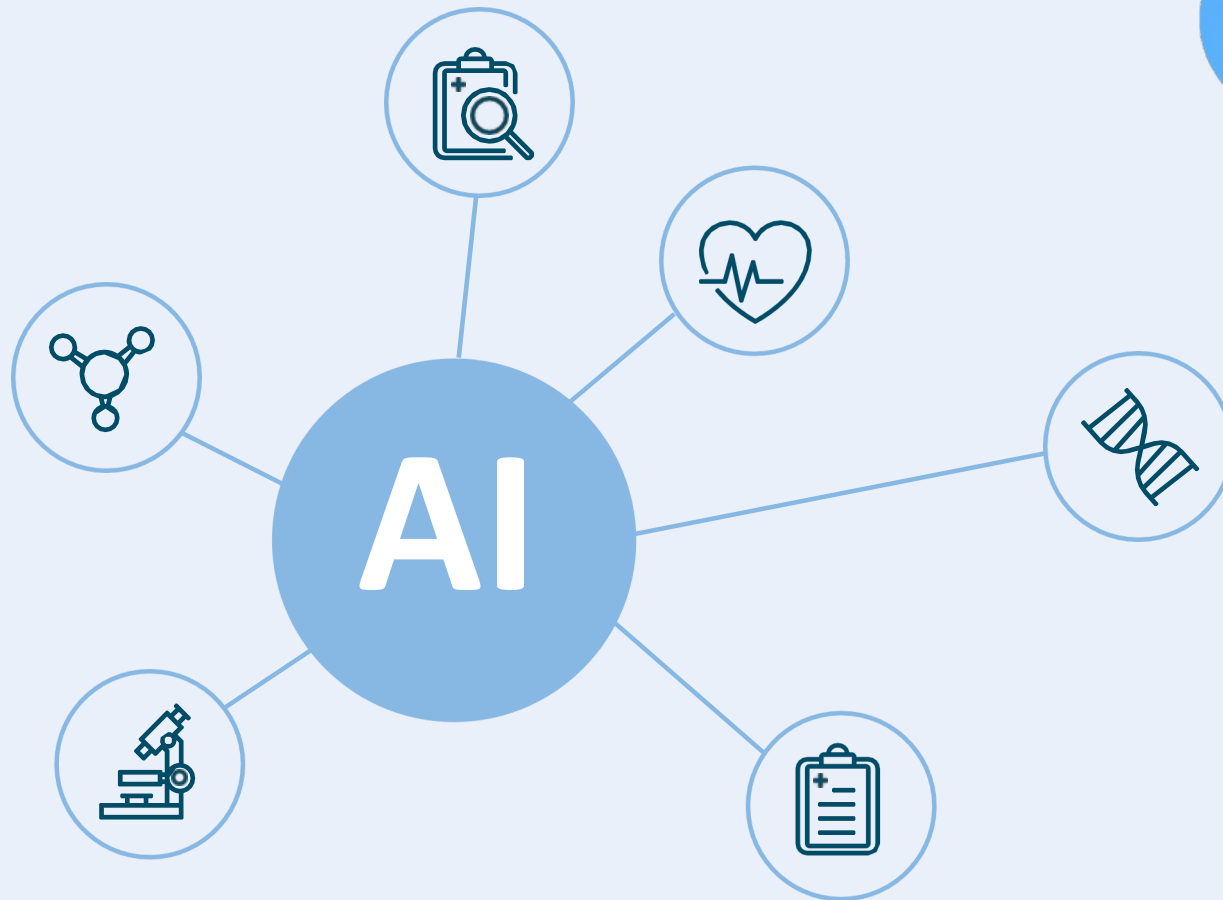




REVOLUTIONIZING THE EARLY DETECTION
OF RETINOPATHY THROUGH IMAGING

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 is a non-invasive, fast, and easy-to-use test for detecting diabetic retinopathy from retinographic images. Its technology is based on quantitative **analysis** of the texture of the **retinographic image**. By simply analyzing and classifying images, the risk of diabetic retinopathy can be determined in a few minutes.

quantusRT has been designed with a clear focus on the diabetic population and is intended to be a tool for detecting diabetic retinopathy, greatly assisting in the screening of patients with risk factors and the prioritization of waiting lists.

Images are classified as **benign or malignant**, without the need (or as a complement) for a specialist to perform a visual inspection of the retinographic image. The specialist, who is always trained, classifies the images using visual patterns, and quantusRT gives a percentage risk of malignancy.



NON-INVASIVE



SAFE

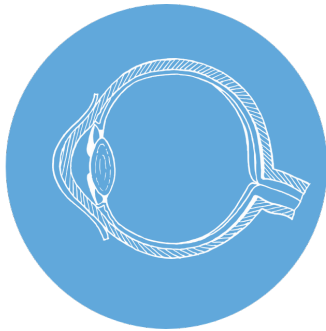


FAST



COMPATIBLE

How to use quantusRT?



1. Acquire the fundus image



2. Upload the image to the web application



3. Obtain the results

Step 1: Acquire a fundus image

quantusRT requires a fundus image in JPG or PNG format captured using an ocular retinograph, which takes specific photographs of the retina, both panoramic images and enlarged areas. A simple guide is available within the application showing how to capture these images.

How to use quantusRT?

Step 2: Use the web application to analyze the image

This application is a simple tool that allows you to send the image 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



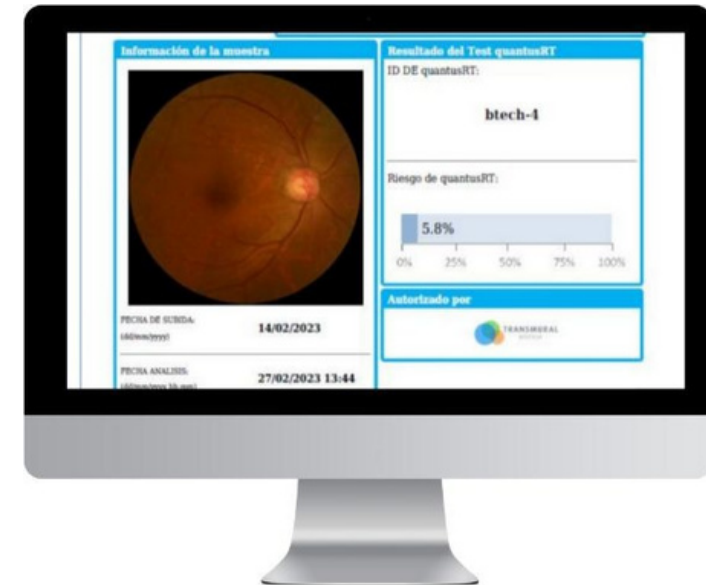
Select

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

quantusRT is a non-invasive, quick, and easy-to-use test for detecting diabetic retinopathy from fundus images.

It has been designed with a clear focus on the **diabetic population** and is intended to be a tool for **detecting diabetic retinopathy**, being of great help in screening patients with risk factors and prioritizing waiting lists. Therefore, anyone can take the test at any time.

- **Non-invasive:** quantusRT is based on the analysis of a photograph of the fundus of the retina taken using an eye retinograph, thus avoiding the need for invasive techniques.
- **Fast:** quantusRT generates accurate results in just a few minutes.

	Sensitivity	Specificity
Clinical observation	80%	92%
	75%	98.2%

Why does quantusRT work?

An automated support tool is defined as one that requires minimal or no input from the physician to obtain a result. In recent years, research has focused on automatic algorithms to improve current clinical diagnosis based on images.

The **specialist**, who is always trained, classifies the images using visual patterns, and quantusRT provides a percentage risk of the pathology based on the analysis and classification of fundus images from both eyes and additional clinical information associated with the image.

The rise of **Artificial Intelligence** techniques, especially **Deep Learning**, has increased the number of studies using these types of algorithms in ophthalmology.

Several recently published studies show that detection using of diabetic retinopathy trained Deep Learning models can achieve high accuracy in various populations and provides quantitative comparisons using trained deep learning models can achieve high accuracy in diverse populations and provide quantitative comparisons of how model performance can vary across datasets consisting of diabetic retinopathy of different severity and ethnicity.

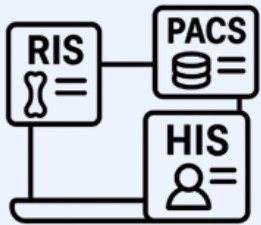
An unlimited experience



Unrestricted 24-hour **access**: With an internet connection, you can use quantusRT 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 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

Our partners





Developing tomorrow's medical technologies today