



REVOLUTIONISING THE EARLY DETECTION OF RETINOPATHY BY IMAGING

- ✓ **100% non-invasive Reliable**
- ✓ **results in 10 minutes**
- ✓ **Excellent Sensitivity and Specificity values**


AN UNMET CLINICAL NEED

- Diabetic retinopathy is the leading cause of working-age blindness in industrialized countries.
- Early diagnosis of these lesions makes all the difference. If detected early, vision loss can be prevented.
- Social and personal cost of vision loss threatens to overwhelm health and social care systems

quantusRT:

ANALYSIS AND CLASSIFICATION OF FUNDUS IMAGES FOR THE DETERMINATION OF DIABETIC RETINOPATHY RISK.

- **Non-invasive:** quantusRT is based on the analysis of a fundus photograph of the retina taken by an ocular retinograph, thus avoiding the need to use an invasive technique.
- **Fast:** quantusRT generates accurate results in just a few minutes.

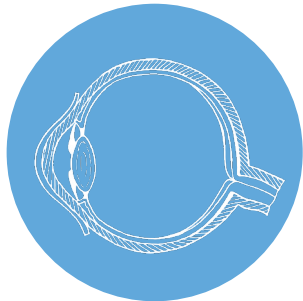
	Sensitivity	Specificity
Clinical Observation	80%	92,0%
	75,0%	98,2%

*Specificity: probability that the test identifies as not sick those who are not sick.

*Sensitivity: probability that the test identifies as sick those who are indeed sick.

HOW TO USE quantusRT?

Using quantusRT is easy, it only requires 3 simple steps:



1. Acquire a fundus image of the retina



2. Upload the image into the app



3. Obtain the results

Step 1: Acquire a fundus image

quantusRT requires a fundus image in JPG or PNG format captured through an ocular retinograph, which takes certain photographs of the retina, both in panoramic image and in more magnified areas. There is a simple guide available within the application that shows how to perform these acquisitions.

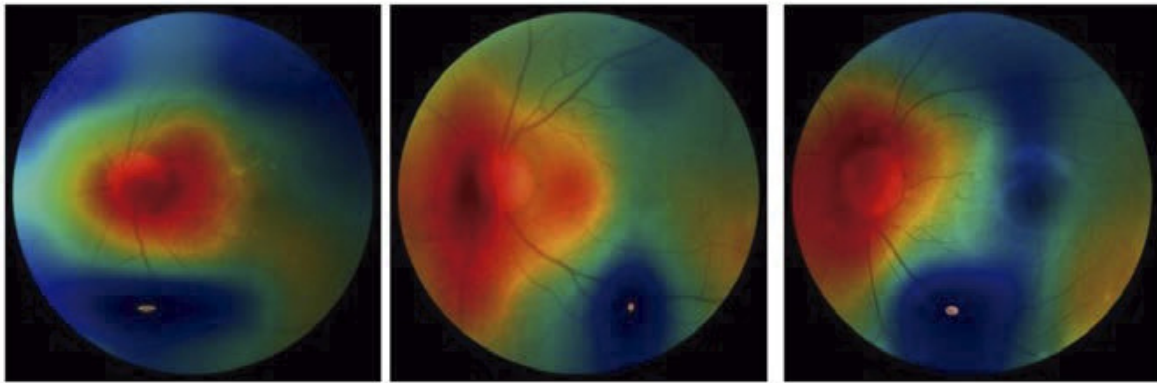


WHEN TO USE quantusRT

quantusRT is a non-invasive, fast and easy-to-use test for the detection of diabetic retinopathy from fundus images.

Its technology is based on the quantitative analysis of the texture of the fundus image obtained by ocular retinography. By simply analyzing and classifying the images, quantusRT determines the likelihood of diabetic retinopathy within minutes.

quantusRT has been designed with a clear focus on the diabetic population and aims to be a tool for the detection of diabetic retinopathy, being of great help in the screening of patients with risk factors and prioritization of waiting lists. Therefore, anyone can take the test at any time.



The specialist, always trained, classifies the images by visual patterns and quantusRT gives a percentage risk of malignancy, based on the analysis and classification of fundus eye images from both eyes and additional clinical information associated with the image.

A LIMITLESS EXPERIENCE

- ✓ **Unrestricted 24-hour access:** Through an internet connection it is possible to use quantusRT and review the results at any time and from anywhere.
- ✓ **No installation required:** no downloading of any type of software.
- ✓ **Great compatibility:** quantusRT is compatible with most web browsers as well as devices used in ophthalmology, optometry and primary care practices.

quantusRT OFFERS A HIGH ECONOMIC VALUE

- ✓ **NO initial investment in infrastructure required!**
- ✓ **Pay-per-use: Pay only for each analysis you order!**
- ✓ **Add more value to your practice and increase your profits!**



WHY DOES quantusRT WORK?

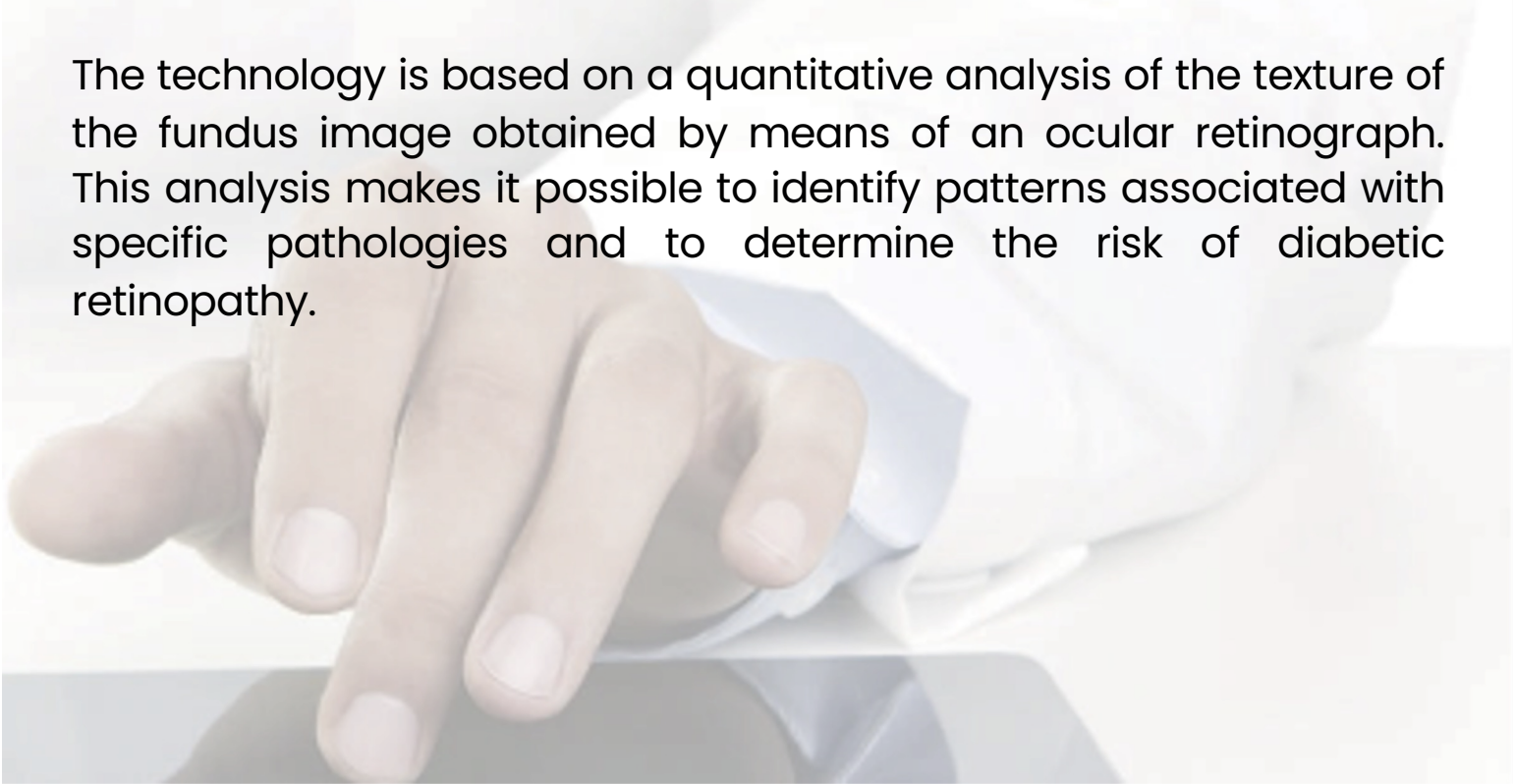
An automated support tool is defined as one that requires minimal or no input from the clinician to obtain a result. Over the past few years, research has focused on automated algorithms to improve current clinical diagnosis from images.

The rise of Artificial Intelligence techniques and especially Deep Learning techniques has increased the number of studies using such algorithms in diagnostic ophthalmology.

Several recently published studies provide evidence that diabetic retinopathy detection 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 disease severity and ethnicity.

quantusRT is presented as a novel Artificial Intelligence method, based on state-of-the-art Deep Learning. Several studies have proven the correlation between the quantitative analysis method proposed by quantusRT.

The technology is based on a quantitative analysis of the texture of the fundus image obtained by means of an ocular retinograph. This analysis makes it possible to identify patterns associated with specific pathologies and to determine the risk of diabetic retinopathy.

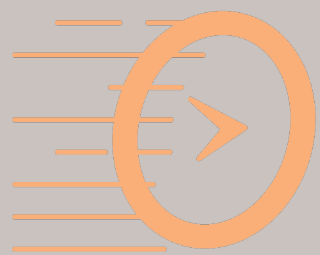




Accurate



Effective



Fast

**No commitment
Contact us!**





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