



quantus
RT-OCT



REVOLUTIONISING RETINOPATHY DETECTION BY IMAGING

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

AN UNRESOLVED CLINICAL NEED

- 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 saturate health and social care systems.

quantusRT-OCT:

automatic assessment of the presence of microcysts and hyper-reflective spots from quantitative analysis of the textures of the set of images of

a

OCT.

- **Non-invasive:** quantusRT-OCT is based on the analysis of optical coherence tomography (OCT) in diabetic retinopathy, based on a pre-analysis and a post-analysis, thus avoiding the need to use an invasive technique.
- **Fast:** quantusRT-OCT generates accurate results in just a few minutes.

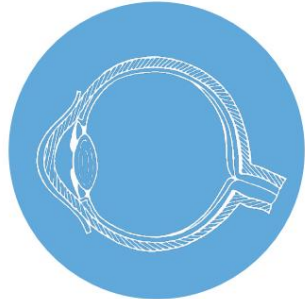
	Sensibilidad	Especificidad
Observación Clínica	80%	92,0%
Microquistes	87,3%	94,4%
Puntos Hiperreflectantes	82,8%	85,6%

*Specificity: probability that the test identifies as not sick someone who is actually not sick.

*Sensitivity: probability that the test identifies as sick someone who actually is sick.

HOW TO USE quantusRT-OCT?

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



1. Acquire optical tomography scans



2. Upload the cuts to the web application



3. Get the results

Step 1: Acquire retinal slices

quantusRT-OCT requires an image in TIF or BMP format captured by a CT scanner. A simple guide is available within the application that shows how to perform these acquisitions.




Step 2: Use the web application to analyze the 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 only have to follow three simple steps to complete the analysis:

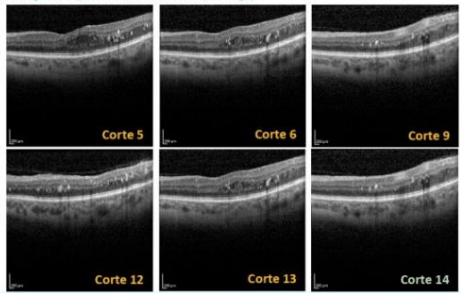


Step 3: Get the application result in a few minutes.

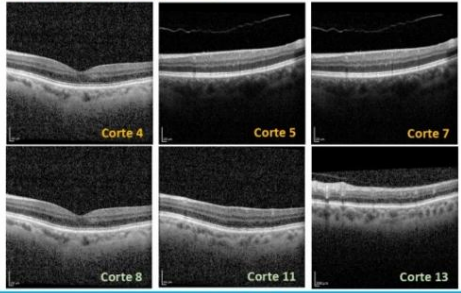
Test PHR & Microquiste 

INFORMACIÓN DE LA MUESTRA

Microquistes (primeros 6 cortes con mayor riesgo)



PHR (primeros 6 cortes con mayor confianza)



Paciente		Resultado informe	
NOMBRE PACIENTE:	TEST	Microquistes:	Nº cortes * Fecha
ID PACIENTE:	ID0001	Análisis actual	12 de 25
FECHA DE ANÁLISIS:	22/11/2021	Análisis previo	8 de 25 22/10/2021
		PHR:	Análisis actual
			9 de 25
			Análisis previo
			13 de 25 22/10/2021

* Número de cortes de la OCT que sobrepasa el umbral establecido definiendo éste como el valor para una sensibilidad del 87.3%, una especificidad del 94.4%, un PPV de 91.2% y un NPV de 91.8% para microquistes y una sensibilidad del 82.9%, una especificidad del 85.6%, un PPV de 85.6% y un NPV de 82.8% para puntos hiper-reflectantes

** Identificado en las imágenes el número de corte en VERDE aquellas que el algoritmo predice no patológicas y en NARANJA aquellas que predice patológicas.

DESCRIPCIÓN DEL TEST
 quanturT-OCT™ ofrece una valoración automática del riesgo de presencia de microquistes y puntos hiper-reflectantes a partir del análisis cuantitativo de las texturas del conjunto de imágenes de un OCT. La calidad de la imagen y la adquisición son relevantes y se deben obtener considerando los requisitos del producto. quanturT-OCT™ se ha desarrollado para investigación clínica.
 Se considera quanturT-OCT™ únicamente para el uso en investigación clínica y no para el uso clínico. quanturT-OCT™ ha sido desarrollado por Transmural Biotech, B65084675, C/Juan Ignacio Luca de Tena 12, 28027 Madrid España. En virtud del Reglamento (UE) 2016/769 relativo a la protección de las personas físicas en lo que respecta al tratamiento de datos personales, le informamos que Transmural Biotech es el encargado de tratamiento de sus datos con el fin de ofrecerle el tratamiento sanitario. Usted puede ejercer sus derechos de acceso, rectificación, supresión y portabilidad de datos y oposición y limitación a su tratamiento ante Transmural Biotech SL, en la dirección de correo electrónico dpo@transmuralbiotech.com

WHEN TO USE quantusRT-OCT

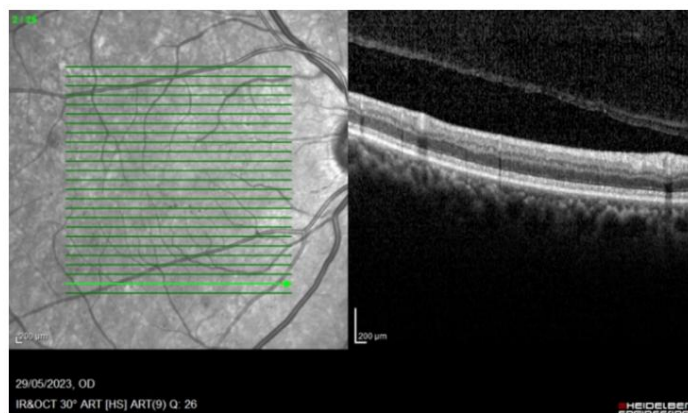
quantusRT-OCT automatic assessment of the presence of microcysts and hyperreflective points from quantitative analysis of the textures of a set of OCT images.

One of its main characteristics is that it has the possibility of carrying out a study of a previous analysis and a subsequent one of the patient, in order to be able to analyze the development of the pathology and see if the number of cuts where they are detected has increased or decreased.

microcysts and hyperreflective dots.

Its technology is based on 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 presenting microcysts and hyperreflective points in just a few minutes.

quantusRT-OCT has been designed with a clear focus on helping the population, being of great help in the screening of patients with risk factors, the monitoring of patients and the prioritisation of waiting lists. Therefore, anyone can take the test at any time.



The specialist, always trained, classifies the images using visual patterns and quantusRT-OCT determines the number of sections that present microcysts or hyperreflective points of the 15-30 images that make up an OCT study.

AN EXPERIENCE WITHOUT LIMITS

- ✓ 24/7 unrestricted access: With an internet connection, you can use quantusRT-OCT and review results at any time and from anywhere.
- ✓ No installation required: no download of any type of software.
- ✓ Wide Compatibility: quantusRT-OCT is compatible with most web browsers as well as devices used in ophthalmology, optometry and primary care practices.

quantusRT-OCT OFFERS HIGH ECONOMIC VALUE

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



WHY DOES quantusRT-OCT WORK?

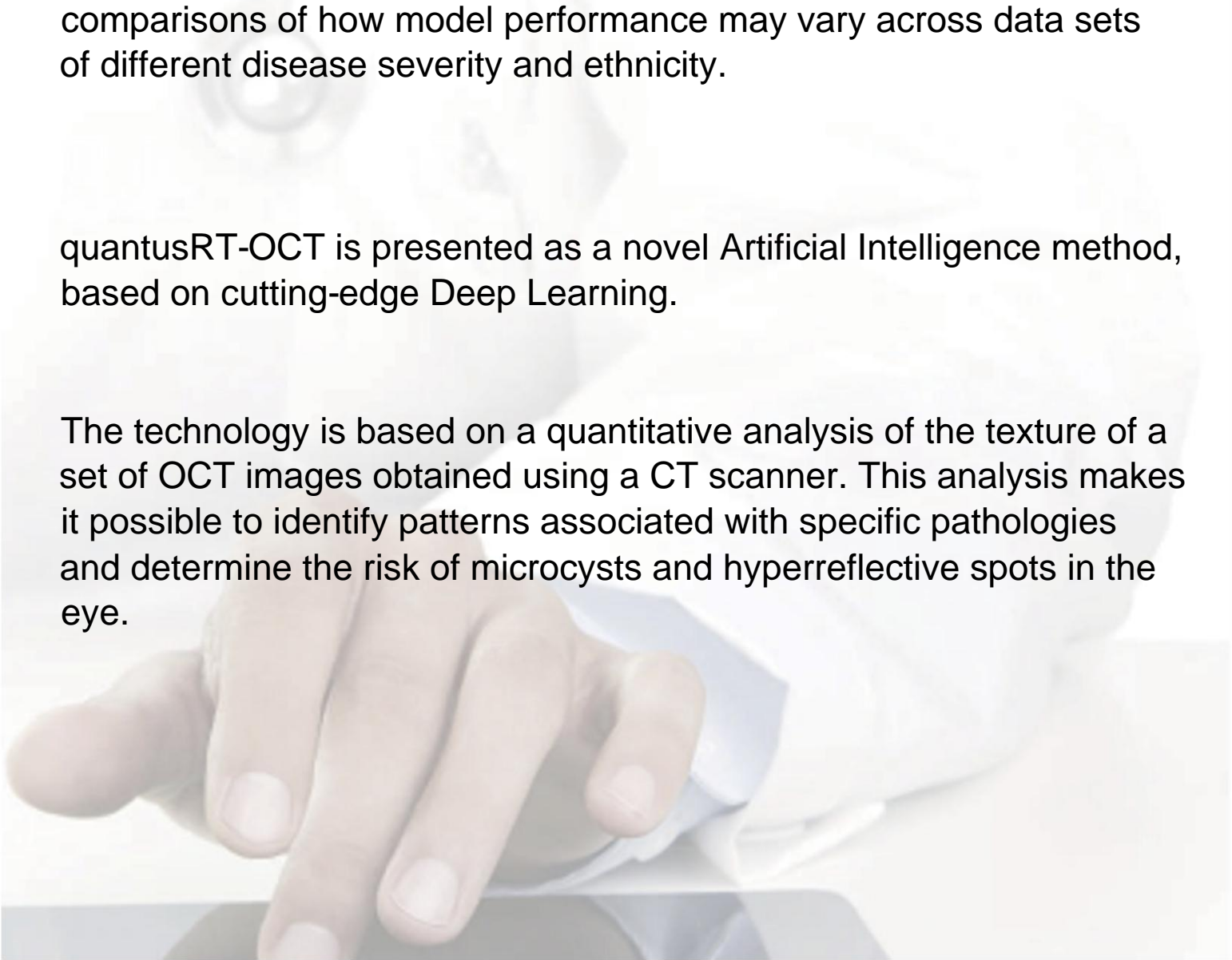
An automated support tool is defined as one that requires minimal or no input from the physician to obtain a result. Over the past few years, research has focused on automatic algorithms to improve current clinical diagnosis from images.

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

Several recently published studies show that detection of microcysts and hyperreflective spots using trained Deep Learning models can achieve high accuracy in diverse populations and provide quantitative comparisons of how model performance may vary across data sets of different disease severity and ethnicity.

quantusRT-OCT is presented as a novel Artificial Intelligence method, based on cutting-edge Deep Learning.

The technology is based on a quantitative analysis of the texture of a set of OCT images obtained using a CT scanner. This analysis makes it possible to identify patterns associated with specific pathologies and determine the risk of microcysts and hyperreflective spots in the eye.

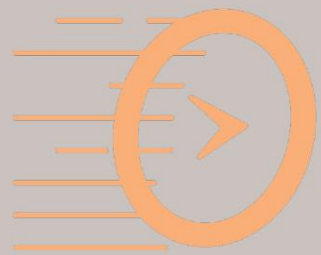




Effective



Reliable

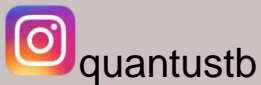


Fast

If you want to try it
Contact us!



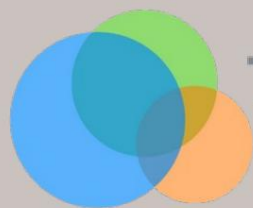
Email: sales@transmuralbiotech.com



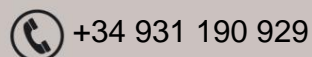
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