

Quibim Precision[®] Prostate

Reproductive Suite

Revolutionizing Prostate MRI
with Artificial Intelligence



An AI-driven MRI solution

For prostate reporting, from visualization to quantification

The QP-Prostate tool offers a fundamental change in prostate MRI exams by helping radiologists, urologists and oncologists improve their workflow and supports accurate decision-making.

In addition, the tool automates laborious tasks and generates quantitative information that can hardly be obtained by the human eye, providing relevant clinical and economic benefits.



An AI solution that seamlessly integrates with PACS as part of your daily clinical practice.



Reduces image interpretation time through an automated prostate segmentation process.

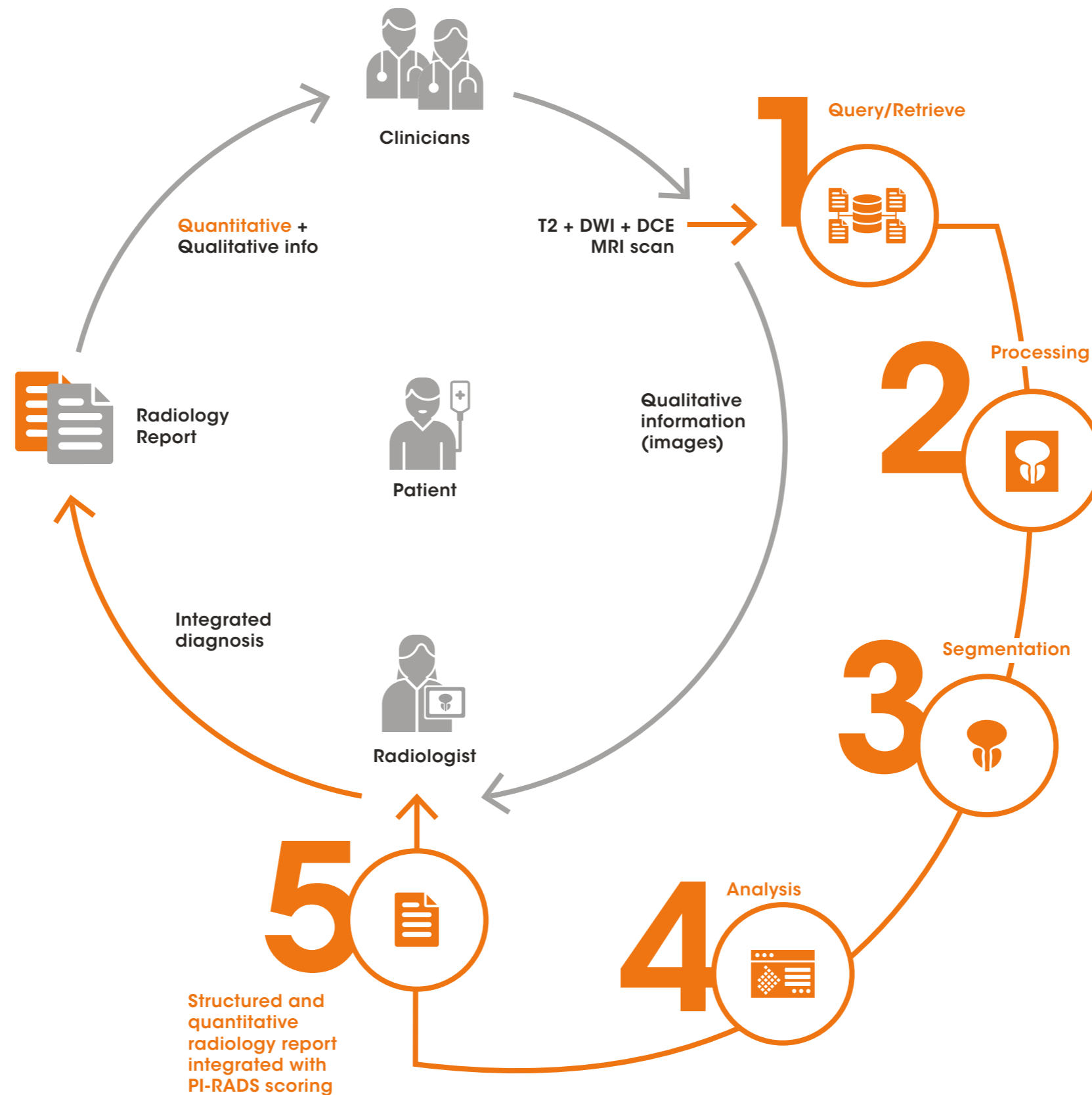


Generates quantitative meaningful insights and improves clinical accuracy.

Efficient workflow, enhanced confidence

The QP-Prostate tool integrates seamlessly with PACS making prostate MRI exams easier to interpret across all levels of radiological expertise. Our solution becomes part of your daily practice.

Designed to increase accuracy and efficiency by automating post-processing tasks, QP-Prostate provides objective measurements and accelerates your workflow and reporting time.



1. Query/Retrieve

This AI solution sorts and matches prostate MRI cases from PACS without disrupting radiology workflows.

2. Processing

Improves image quality and minimizes heterogeneity across vendors by running automatic processing such as AIF selection, registration, motion correction, and spatial smoothing.

3. AI-based segmentation

Detects prostate anatomy for identification and PI-RADS segmentation of each prostate region: transition zone, peripheral zone and seminal vesicles. It also presents a prostate sector map with editable results across the entire gland.

4. Quantitative analysis

Performs automated diffusion and perfusion analysis to extract clinically meaningful quantitative information from the MRI examination.

5. Radiology report of the future

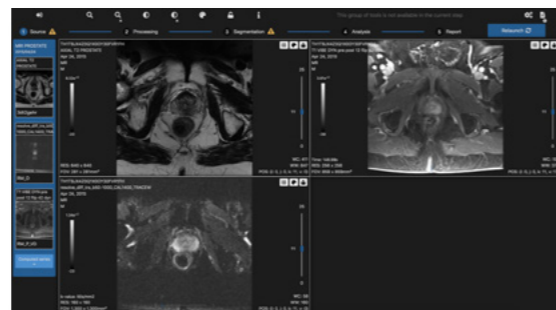
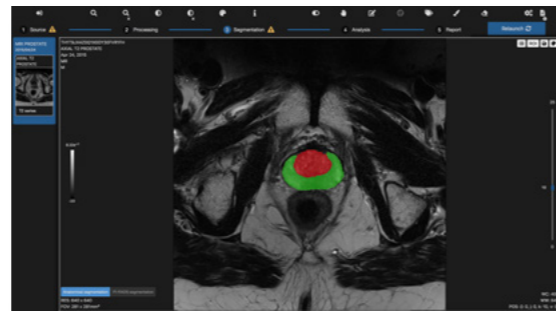
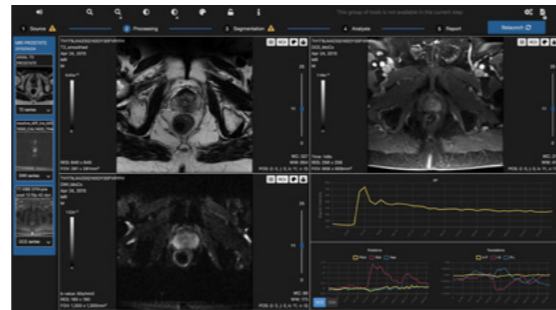
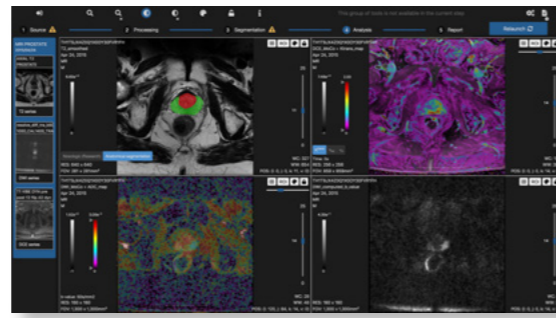
Following PI-RADS V2.1 guidelines to complete and standardize prostate MRI reports.

Radiological Workflow

- Conventional workflow
- QP-Prostate automated workflow

Accurate diagnosis, effective reporting

The QP-Prostate tool is a workflow solution for radiologists, providing all the analytical processes into one software. Powered by AI, the solution extracts clinically meaningful quantitative information, making it part of your daily clinical practice.



Time-saving

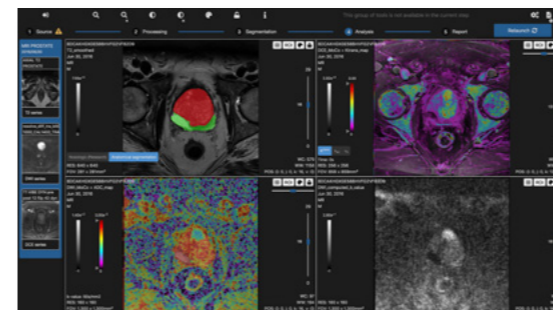
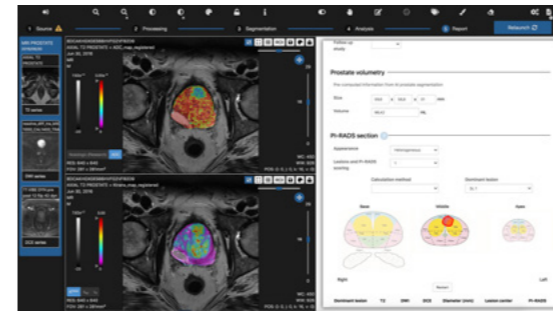
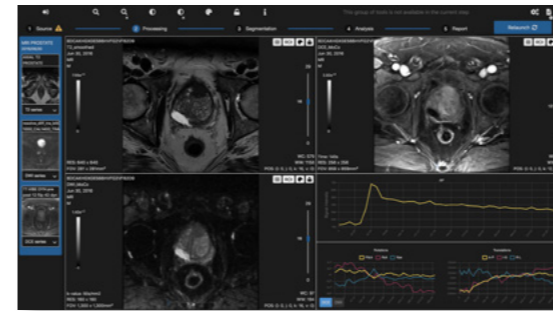
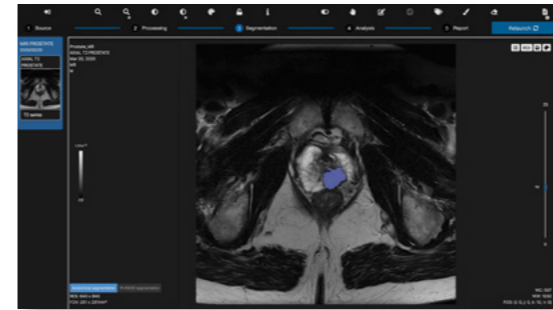
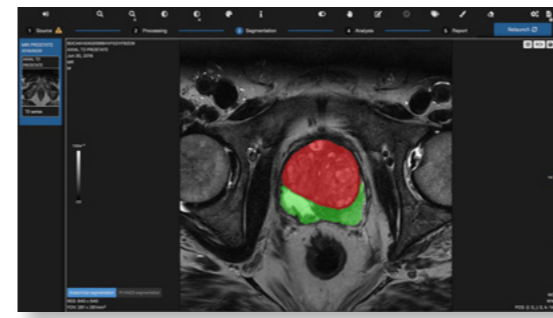
The QP-Prostate tool is an FDA-cleared solution that automatically detects, identifies, and segments the prostate in just seconds. This contributes to reducing the reading and reporting time and streamlines radiology workflow.

Automated analysis

The tool spatially aligns diffusion and perfusion images on T2 images, extracting clinically quantitative data.

Structured reporting

Our solution adds value to your practice, supports the accuracy of PI-RADS scoring with quantitative imaging tools, and generates objective insights from prostate MRI exams.



Accurate biopsy and focal therapy planning

The QP-Prostate tool offers a breakthrough change in the biopsy and focal therapy planning for prostate cancer. From gland segmentation to ROI targeting*. The suite provides fully automated tools leveraging AI in reducing time for clinical diagnosis.

PI-RADS compliant

The QP-Prostate tool is an MRI solution designed to support increased accuracy of PI-RADS scoring with objective quantitative imaging tools.

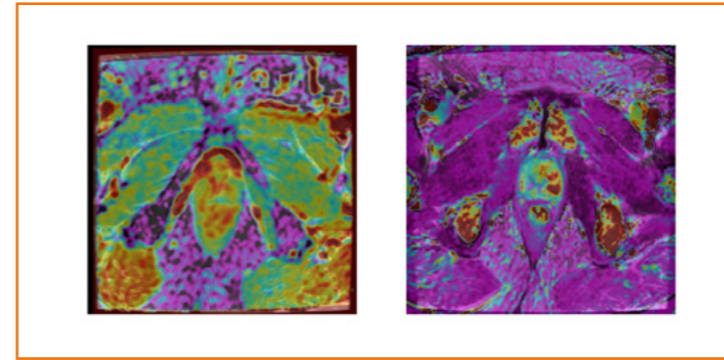
ROI Targeting*

Automatically segments ROIs on MRI images for biopsy and focal therapy planning.

*Not for clinical use, not cleared by the FDA.

Structured reporting, agile clinical interpretation

Structured reports throughout your organization for more efficient clinical interpretation and planning.



Clinical images

Patient and scan information provided

Automated information

Filled out information by the physician

Prostate Structured report

Imaging Center	Patient Name	Code
Modality: MR	Patient ID	
Study Description: RZ515C-RMESTADIAJEGENTALES...	Patient Sex	
Study Date: 2016/03/10	Birthdate	

PI-RADS 2.1 Compliant ✔

Clinical information

- Type of treatment or study is: Staging
- 58-year-old male patient. No family history of prostate gland disease. Clinical episode with a 2 months evolution in urinary flow alterations and effort while urinating. Positive digital rectal examination (DRE). Slightly elevated total prostate-specific antigen (PSA) (4.34ng/mL), with a percentage of free PSA of 12.67%. All other parameters are within normal range.

Technical information

- Magnetic resonance imaging (MRI) performed in a 3 Tesla system (Signa HDxt, General Electric, USA) using the following acquisition protocols: transverse T2, diffusion and perfusion with Gadolinium.
- T2-FSE/TSE TRA: Image quality is satisfactory.
- DCE TRA: Image quality is suboptimal.
- DWI TRA: Image quality is satisfactory.
- There is no date to compare this study with.

Prostate volumetry

- The prostate presents a heterogeneous appearance.
- Prostate size is 52.9 x 31 x 3 mm.
- Prostate volume is 2.56 cm³.

PI-RADS section

Dominant Lesion	T2	DWI	DCE	Diameter (mm)	Center of lesion	PI-RADS
LD1	4	5	+	2	Peripheral	4
LD2	3	2	-	2	Transitional	3

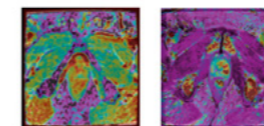
1/2
Quibim S.L. - Quantitative Imaging Biomarkers in Medicine
Edificio Europa - Avenida Aragón 35, 13th Floor Office 11, Valencia (Spain)

Quantitative Analysis

Automatically filled ROI information table.

	Volume (ml)	ADC_map_registered (mm ² [2]s)	Ktrans_map_registered (min ⁻¹)
DL 1	4.70	1.03	0.99
Label 7	7.27	0.90	0.75

Additional information



Filled data

- Presence of extracapsular extension. No comment.
- Periprostatic neuro-vascular bundle is involved. No comment.
- Seminal vesicles are involved. No comment.
- No invasion in the bladder neck. No comment.
- No infiltration in the distal sphincter. No comment.
- Other pelvic structures are not affected. No comment.

Lymph nodes

- N0 (no suspects)

Bone

- Bones do not show aggressive lesions.

Conclusions

No further comments about the prostate.

Automatically populated information

Possibility to add more information that supports your findings

About Quibim

A global leader in whole-body automated medical imaging analysis, follows an AI-powered approach to help detect pathologies across every body part and imaging modality.

We believe evidence-based research and technological innovation combined together help save lives.

We are on a mission to improve human health through AI-guided precision medicine.

We understand every body part.

We speak human.

One ecosystem, an array of suites

The human body is a language. While some technologies and AI solutions can only speak brain, foot, or liver, we speak the whole body. And with our ecosystem of specialized suites for every body part, we make it easy for your entire organization to speak it too.



Central Nervous Suite

The suite consists of various tools that target the nervous system organs and aid in analyzing and quantifying the signs of certain diseases or disorders such as Alzheimer's, Parkinson's, Dementia, Epilepsy, migraines, Amyotrophic Lateral Sclerosis, Brain Atrophy and Multiple Sclerosis.

- Brain Volumetry tool
- White Matter Lesions tool



Gastro-Intestinal Suite

The suite consists of various tools that target the gastrointestinal system organs and aid in analyzing and quantifying the signs of certain diseases or disorders such as Diffuse liver diseases Steatohepatitis, Hemochromatosis, Metabolic syndrome, Obesity, Fibrosis, Cirrhosis and Inflammation.

- Liver Fat and Iron concentration tool



Reproductive Suite

The suite consists of various tools that target the male and female reproductive system organs and aid in analyzing and quantifying the signs of certain diseases or disorders such as Solid Tumors, Prostate Cancer and Breast Cancer.

- QP-Prostate tool



Respiratory Suite

The suite consists of various tools that target the respiratory system organs and aid in analyzing and quantifying the signs of certain diseases or disorders such as COPD, Emphysema, Fibrosis, Air Trapping and Pulmonary Hypertension.

- Lung Densities tool
- Lung Opacities tool
- Lung Nodule tool

We Speak Human

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