

# AI-Rad Companion Prostate MR

Interdisciplinary exchange of relevant findings between the radiology and urology department isn't easy

## Focusing on prostate planning support

AI-Rad Companion Prostate MR assists radiologists with the preparation of MR prostate images that can be imported by ultrasound systems (for example, RTStruct) to help urologists perform targeted MR-US fusion biopsies. The urologist receives information on the location and spatial extent of lesions and the prostate volume in prostate MR images.

AI-Rad Companion Prostate MR is a cloud-based image processing software that provides quantitative and qualitative information based on prostate MR DICOM images. More specifically, it provides information on the prostate volume which can be used to support the planning of prostate biopsies in the case of ultrasound guided MR-US fusion biopsies of the prostate gland. It is enabled via artificial intelligence algorithms and a cloud infrastructure.

## Key functionalities:

- Automatic prostate segmentation and volume estimation, with the option for manual adjustments
- Manual determination of location and size of lesions in an appropriate user interface
- Calculation of PSA density based on the input of the patient's PSA value by the clinical user
- Export in a suitable format for reading and archiving in PACS, as well as in a second format that can be imported by ultrasound systems (e.g. RTStruct), allowing the urologist to perform targeted MR-US fusion biopsy

## Addressing prostate biopsy planning challenges



Localizing and contouring the prostate gland on MR studies in preparation for a prostate biopsy by a urologist is time-consuming and laborious for radiologists. AI-Rad Companion Prostate MR helps radiologists by automatically contouring the prostate gland on the MR image series, while still permitting manual contouring manipulation and annotation of the prostate. The resulting images can then be exported in DICOM format for reading and archiving in PACS, as well as in a second format that can be imported by ultrasound systems (e.g. RTStruct), allowing the urologist to perform targeted MR-US fusion biopsy. The workflow supports the urologists in targeting the lesions when performing biopsy. This may lead to increased biopsy accuracy and to reduce the risk of missing the right spot. In that way, AI-Rad Companion Prostate MR helps the radiologist in prostate biopsy planning. Manual contouring of lesions is also supported. AI-Rad Companion also supports the calculation of the PSA density, based on the input of the patient's PSA value by the clinical user.

## Purchasing options

AI-Rad Companion is available as a trial license for 90 days. After the 90-day trial the customer can purchase AI-Rad Companion using our subscription-based software as a service (SaaS) model. Installation and use of the teamplay digital health platform is a prerequisite for using AI-Rad Companion.

## Next steps

[➔ Contact us for more details](#) or [➔ request a trial](#).

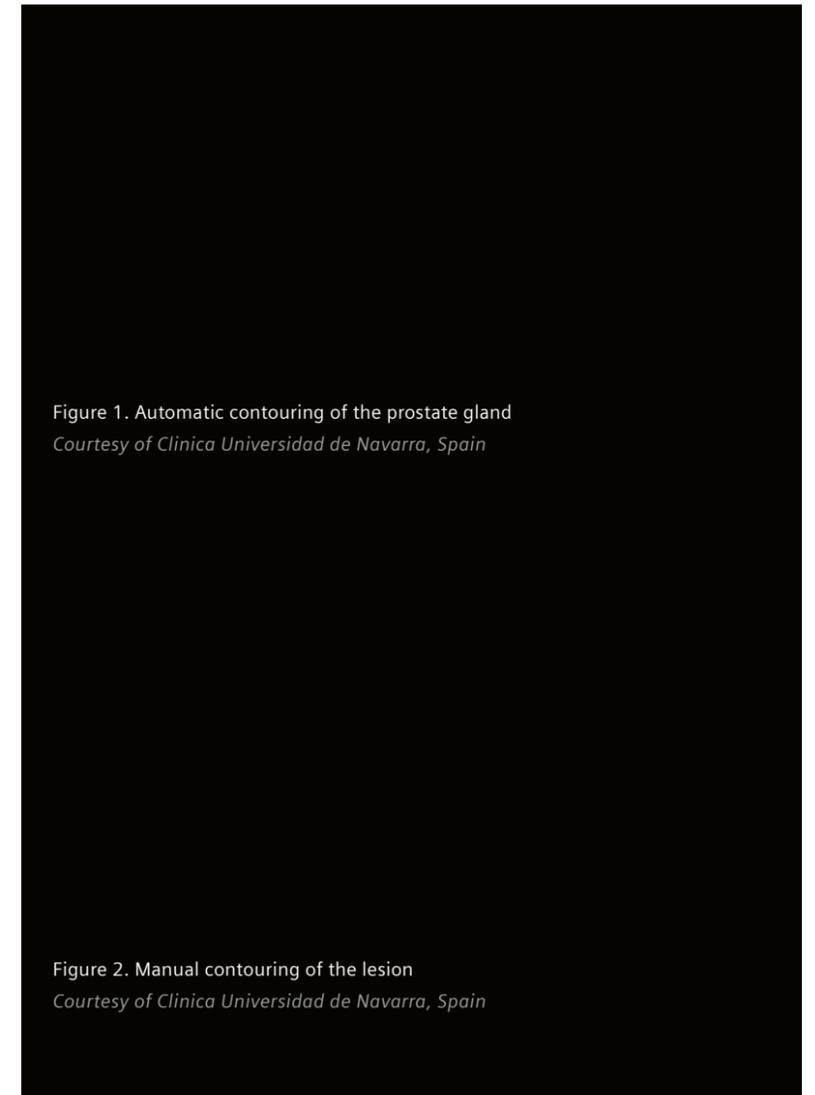


Figure 1. Automatic contouring of the prostate gland  
Courtesy of Clinica Universidad de Navarra, Spain

Figure 2. Manual contouring of the lesion  
Courtesy of Clinica Universidad de Navarra, Spain

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