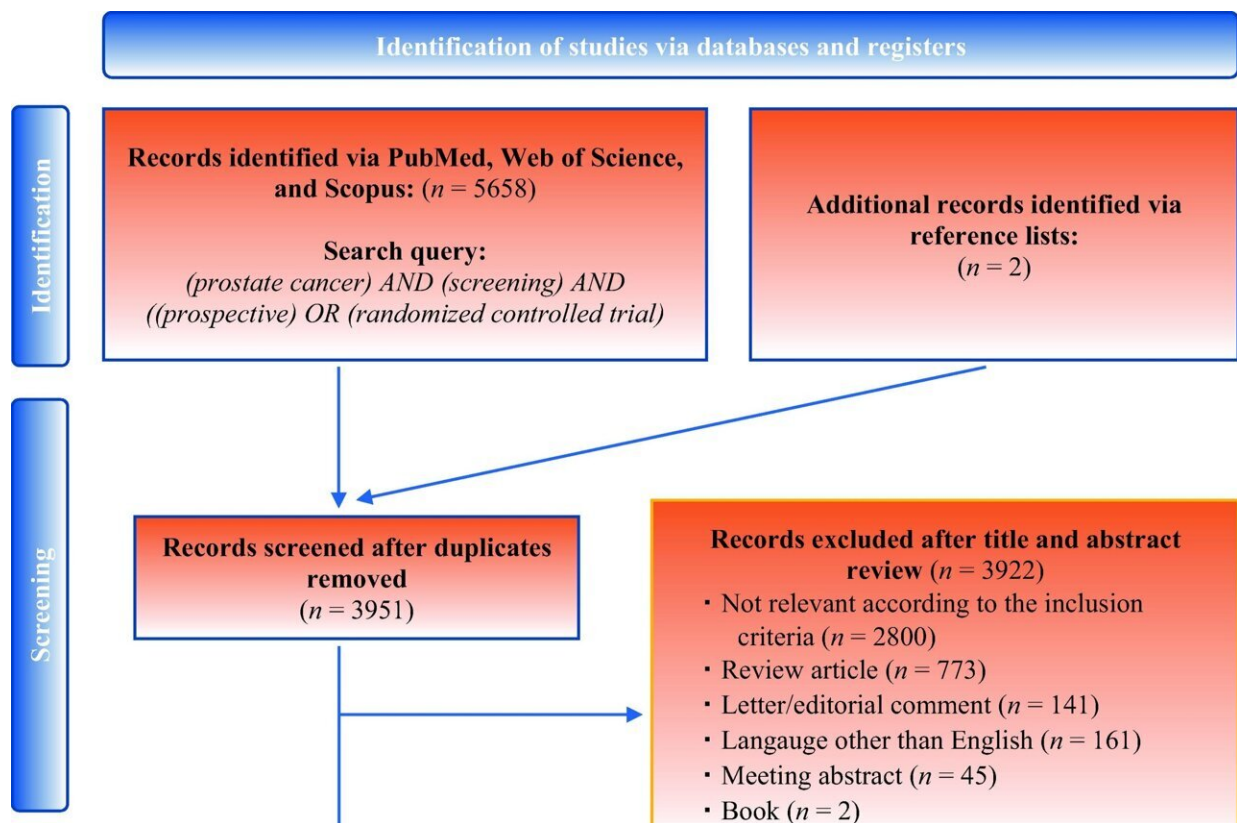


# Study: Rectal examination has no advantage over PSA blood test for prostate cancer screening

January 19 2024



Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) flow chart detailing the article selection process. RCT = randomized controlled trial.

A study by the Comprehensive Cancer Center Vienna of MedUni Vienna and Vienna General Hospital has taken a closer look at the effectiveness of common examination methods for the early detection of prostate cancer. It was found that rectal examination has no advantages over the PSA blood test for detecting prostate cancer.

The study results by Shahrokh F. Shariat from the Department of Urology at MedUni Vienna and University Hospital Vienna were recently [published](#) in the journal *European Urology Oncology*.

Prostate [cancer](#) is one of the most common cancers in men worldwide. Conventional screening methods include digital (finger) rectal examination (DRE) and [prostate-specific antigen](#) (PSA) testing. However, many men do not undergo rectal screening, and previous research has suggested that DRE as a stand-alone screening method or in combination with PSA may be less effective than thought.

## **Meta-analysis takes a closer look at specific studies**

This new study analyzed and combined data from eight different studies with a total of 85,738 participants. The results suggest that DRE alone or in combination with PSA may not be more effective in the early detection of prostate cancer compared to PSA testing alone. In particular, DRE alone showed a lower cancer detection rate (CDR) compared to the PSA test.

These findings may indicate that digital rectal examination may not be as effective as hoped for in the routine screening of prostate cancer, especially in the absence of specific symptoms or signs.

"The validity of rectal examination in detecting prostate cancer is not particularly impressive, suggesting that it may not be necessary to perform this examination routinely as part of screening in the absence of

clinical symptoms and signs," explains Shahrokh Shariat, Head of the Department of Urology at MedUni Vienna and University Hospital Vienna and leader of the international study.

This opens up a discussion about the effectiveness and benefits of digital rectal examination in the early detection of prostate cancer. Shahrokh Shariat emphasizes the importance of further research to identify the best methods for the early detection of prostate cancer, saying, "The continuous improvement of [prostate](#) cancer screening methods remains of paramount importance to protect the health and well-being of men worldwide. We certainly hope that by removing this barrier, more men will go for [prostate cancer screening](#)."

**More information:** Akihiro Matsukawa et al, Comparing the Performance of Digital Rectal Examination and Prostate-specific Antigen as a Screening Test for Prostate Cancer: A Systematic Review and Meta-analysis, *European Urology Oncology* (2024). [DOI: 10.1016/j.euo.2023.12.005](#)

Provided by Medical University of Vienna

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