

North York General study shows safest method for prostate cancer biopsies

May 9 2019



Micrograph showing prostatic acinar adenocarcinoma (the most common form of prostate cancer) Credit: Wikipedia, [CC BY-SA 3.0](https://creativecommons.org/licenses/by-sa/3.0/)

The Gale and Graham Wright Prostate Centre at North York General Hospital (NYGH) is advancing prostate cancer care with a new study that shows the benefits of transperineal prostate biopsies (TPBx) under local anesthetic.

Published online in the *Journal of Urology* the study, "Transperineal

Prostate Biopsies Using Local Anesthesia: Experience in 1,287 Patients. Prostate Cancer Detection Rate, Complications and Patient Tolerability" provides evidence that the TPBx approach for testing and diagnosing prostate cancer is accurate and has significantly fewer complication rates compared to the traditional prostate [biopsy](#) method.

"After performing more than a thousand TPBx procedures under [local anesthetic](#), the team at North York General has shown that it is the safest method of obtaining a biopsy for prostate cancer and patients tolerate the procedure well," said Dr. Stan Flax, NYGH urologist and one of the study's lead authors. "The [clinical data](#) provides the necessary evidence that the medical community needs in order to move toward a new standard of care for patients."

In 2016, NYGH's Gale and Graham Wright Prostate Centre became the first in Canada to use the TPBx approach, which involves obtaining the biopsy using a needle through the skin. Studies have shown that TPBx is a safer alternative for patients, as compared to transrectal biopsies, due to the lower risk of serious infections, which can result in hospitalization and admission to an [intensive care unit](#).

In the very few settings where TPBx is performed, the procedure is done using general or spinal anesthetic, which typically requires more intensive resources. For the past three years, urologists at NYGH have exclusively used TPBx under local anesthetic and have tracked a total of 1,287 procedures as part of this study. The data shows this method of prostate biopsies has the same accuracy rate, if not better as transrectal, compared to the team's previous series of transrectal biopsies.

Prostate cancer is the most commonly diagnosed cancer among North American men, with approximately one in seven men being diagnosed with this disease in their lifetime. It is also one of the more treatable cancers, if detected and treated in its [early stages](#).

"Only one percent of testing for [prostate cancer](#) in North America is done using TPBx," says Dr. Flax. "Given how often [prostate](#) biopsies are performed, there is a real opportunity to improve patient care with our research."

More information: Veselina Stefanova et al. Transperineal Prostate Biopsies Using Local Anesthesia: Experience with 1,287 Patients. Prostate Cancer Detection Rate, Complications and Patient Tolerability, *Journal of Urology* (2019). [DOI: 10.1097/JU.000000000000156](https://doi.org/10.1097/JU.000000000000156)

Provided by North York General Hospital

Citation: North York General study shows safest method for prostate cancer biopsies (2019, May 9) retrieved 20 April 2024 from <https://medicalxpress.com/news/2019-05-north-york-safest-method-prostate.html>

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