



# Histopathology of prostate tissue after vascular-targeted photodynamic therapy for localized prostate cancer

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Résumé en anglais	<p>Low-risk prostate adenocarcinoma is classically managed either with active surveillance or radical therapy (such as external radiotherapy or radical prostatectomy), but both have significant side effects. Vascular-targeted photodynamic therapy (VTP) is a focal therapy proposed as an alternative approach for localized, low-volume, and low-Gleason score (<math>\leq 6</math>) carcinomas. We report histological modifications observed in prostate biopsies of 56 patients, performed 6 months after VTP using the photosensitizer <b>TOOKAD® Soluble (WST11)</b> and low-energy laser administered in the tumor area transperineally by optic fibers. In 53 patients, we observed sharply demarcated hyaline fibrotic scars, with or without rare atrophic glands, sometimes reduced to corpora amylacea surrounded by giant multinuclear macrophages. Mild chronic inflammation, hemosiderin, and coagulative necrosis were also observed. When residual cancer was present in a treated lobe (17 patients), it was always located outside the scar, most often close to the prostate capsule, and it showed no therapy-related modification. Histopathological interpretation of post-WST11 VTP prostate biopsies was straightforward, in contrast with that of prostate biopsies after radio or hormonal therapy, which introduces lesions difficult to interpret. VTP resulted in complete ablation of cancer in the targeted area.</p>
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### Liens

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