

Reliability and Accuracy of YouTube Videos on Transperineal Prostate Biopsy

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What's known on the subject? and What does the study add?

Transperineal prostate biopsy is recommended to reduce the risk of infectious complications. Given that patients and physicians rely on YouTube videos for information, assessing the reliability of video sources is crucial. This study aimed to assess the quality and reliability of transperineal prostate biopsy videos.

Abstract

Objective: This study aimed to evaluate the reliability and quality of YouTube videos of transperineal prostate biopsy (TP-bx) procedures using different scoring systems.

Materials and Methods: Video searches were conducted on YouTube using the keyword 'transperineal prostate biopsy'. All English-language videos longer than 2 minutes featuring the TP-bx procedure were ranked by relevance and popularity. Global quality scores (GQS) and reliability scales were used to analyze video quality and content. The validated video power index (VPI) was used to assess video popularity, and the TP-bx score (TPBs) was used to measure video content value.

Results: While experts (53.3%) comprised the main category among the 60 videos included in the study, the largest target group was physicians (88.3%). Technical information (43.3%) constituted the main content, and the region with the highest uploads was the United States (56.7%). The majority of videos included audio (96.7%); 33.3% focused mainly on single free-hand. The median scores of VPI, GQS, and TPBs were 0.03, 3, and 12.5, respectively. These scores are correlated. GQS and modified DISCERN scores were significantly higher for academic and technical videos ($p=0.041$, $p=0.000$), while Journal of the American Medical Association scores were significantly higher for academic and audio videos ($p=0.001$, $p=0.004$). Similarly, academic and technical videos were found to be of high quality ($p<0.001$).

Conclusion: The use of TP-bx videos is not yet standardized and is less effective than written resources. Healthcare professionals have a responsibility to create these resources and direct patients to reliable sources of information.

Keywords: Transperineal, prostate biopsy, YouTube

Introduction

Prostate cancer is the second most prevalent solid-organ cancer after lung cancer, with sixty percent of cases occurring in the geriatric population (1-3). It remains a major issue in public health. Nonetheless, conducting a prostate biopsy is crucial for diagnosing and treating cancer (4).

Traditionally, prostate biopsies have been conducted using a transrectal approach (4,5). Nonetheless, the occurrence of

infectious complications and the emergence of resistant strains linked to transrectal methods have prompted the exploration of alternative techniques (5). As a result, the transperineal method has garnered attention. Transperineal prostate biopsy (TP-bx) has become the preferred approach due to its comparable prostate cancer detection rates, minimal infectious complications, reduced antibiotic use, and straightforward access to anterior prostate tissue (5).

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