THE EFFICACY OF INTRARECTALLY LOCAL ANESTHESIA WITH LIDOCAINE GEL ON THE COMFORT OF THE PATIENT DURING TRANSRECTAL ULTRASOUND-GUIDED 12 CORES PROSTATE BIOPSY

ABSTRACT

Introduction: Transrectal ultrasound-guided prostate biopsy is the most important method for diagnosis of prostate cancer. But, the prostate biopsy is an invasive method. We studied efficacy of intrarectal local anesthesia with lidocaine gel before transrectal ultrasound-guided prostate biopsy.

Materials and Methods: Between 1998 and 2002 years, 117 patients, whose prostate specific antigen (PSA) level is higher than 4 ng/ml, were underwent transrectal ultrasound-guided prostate biopsy. Patients were assigned to two groups. All patients had transrectal ultrasound-guided 12 cores prostate biopsy. In the first group, 58 patients underwent TRUS-guided prostate biopsy with %2 lidocaine gel (Innovage, Germany). Intrarectally, in the second group, 59 patients underwent TRUS-guided prostate biopsy with liquid vaseline (ud Fluid). We performed double-blinded, placebo controlled study to assess pain score and efficacy of intrarectal lidocaine gel administration during TRUS-guided prostate biopsy.

Results: The average of pain score of 58 patients in the first group with intrarectal lidocaine gel was between 1.5-2.6 (2.63±1.65), the average of pain score of 59 patients in the second group with liquid vaseline was between 3.7-5.986±2.172. No complication has been determined in all the patients. Mean pain scores for intrarectal lidocaine gel group and placebo liquid vaseline group were significantly and statistically different (t=11.240; p=0.001).

Conclusions: Intrarectal lidocaine gel before transrectal ultrasound-guided prostate biopsy results in a more comfortable and effective on the pain score of the procedure for the patients. TRUS-guided prostate biopsy with local anesthesia can reduce the discomfort of the patient. It is easy, non-invasive, cheap, saves from loosing time. Moreover, if prostate re-biopsy is needed, these effects of the patient will be more.

Key Words: Prostate cancer, biopsy, pain, local anesthesia

ÖZET

Transrektal ultrasonografi (TRUS) eşiğinde yapılan prostat bezdccisi prostat kanteri taşmış en temel yöntemdir. Prostat bezdccisi işlemi her zaman soluktan soluktan rahatsız eden bir süreçtir. Traktinal lidokain gel ile uygulamamızda hasta konforumu olanek ekstetiği artararak, 1998 ve 2002 yılları arası prostat asepsik asepsik (PSA) düzeyi 4 ng/ml üzerinde sağlıkta toplam 117 hastanın TRUS eşiğinde yapılan prostat bezdccisi uygulandı. Hasta Grupı 1 traktinal ve lidokain gel (Innovage, Germany) intrarektal olarak uygulandı. Grup 2 ise plasebo uygulandı. Gruplar arasına double-blinded, plasebo kontrolü uygulandı. 117 hastanın korunumu için 1.5-2.6 (2.63±1.65), 59 hastanın korunumu için 3.7-5.986±2.172 (t=11.240; p=0.001) ve 1.5-2.6 (2.63±1.65), 59 hastanın korunumu için 3.7-5.986±2.172 (t=11.240; p=0.001) skirti olarak belirtilmiştir.

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