Introduction

Cervical cancer (CC) is a neoplasm with great potential for prevention, but it is still an important public health problem in most developing countries. There are no significant differences between the use of high dose rate (HDR-BT) and low dose rate (LDR-BT) brachytherapy when considering overall, disease specific and recurrence free survivals. Cervical dilatation is mandatory for the insertion of intra-uterine tandems in any of the techniques cited above. Pain and discomfort may eventually be limiting factors of the outpatient procedure and may lead to unsatisfactory results in terms of adequate position of the applicator set. We reviewed the current sedation and anesthetic options for comfort and safety procedures when performing HDR-BT.

In the radical intracavitary technique of HDR-BT one of the most difficulty procedures is the cervical dilatation, necessary for the insertion of the intra-uterine tandem. Despite the tandem relative thinner diameter, when compared to low dose rate tandems, some discomfort is still experienced by patients, even when anti-spasmodic are prescribed before the procedure. Pain, anxiety and discomfort may be limiting factors of the outpatient procedure, sometimes leading to unsatisfactory results in terms of adequate position of the applicator set [3]. The American Brachytherapy Society recommends that conscious sedation should be used HDR-BT insertions whenever possible [4]. Local interventions have been explored to increase patient comfort during HDR-BT. The use of local spray lidocaine was evaluated by Chen et al. and, although considered safe, it was not effective in pain relief [5]. Paracervical block of the cervix is often used as a form of local anesthesia. A systematic review of the various local anesthetic techniques used during outpatient hysteroscopy concluded that paracervical local anesthetic injections are a reasonable method for patients who undergo such procedures but there are doubts if it is appropriate for CC [6]. The use of cervical dilators has been also described but associated to other forms of sedation (opioids and/or paracervical block) [7]. The administration of misoprostol 400μg before tandem insertion was evaluated by Cepni et al. [8] in a randomized trial. The conclusion was that if the medication was taken orally 3 h before tandem application it facilitates the procedure, increasing patient tolerability and comfort [8]. Lumbar blocks and epidural blockage...
are suitable for inpatients. In Brazil and probably worldwide, besides US and Europe, it is underused due to the shortage of anesthesiologists.

**Conclusion**

Few studies have compared the efficacy or toxicity of the various anesthetic methods that can be used for HDR-BT, so it is a wide and open field. Sedation protocols might result in better positioning and or packing. As mentioned previously, each method of sedation and analgesia have advantages and disadvantages, the indication of one or other procedure shall be individualized.

**References**


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