Local anesthesia by jet-injection device in minor dermatologic surgery.

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Abstract

BACKGROUND: Pain and needle-phobia can be a problem during the application of local anesthesia with syringe and needle.

OBJECTIVE: To evaluate a jet-injection device (without needle) to deliver local anesthesia.

METHODS: Two hundred and six minor dermatological procedures using a jet-injection device for administering local anesthesia into skin tissue were performed. We comment on the technical procedures, application, usefulness in relation to areas involved and the anatomical location of lesion, and total dosage of the anesthetic agent.

RESULTS: Total absence of pain during installation of anesthetic (N = 194; 94%). Good level of anesthesia in all patients. No local adverse effects.

CONCLUSION: The jet-injection device is easy to handle, it is harmless, it provides good levels of anesthesia, and the dosage of anesthetic agent is smaller than the dosage administered with conventional methods.

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MeSH Terms, Substances

MeSH Terms:

- Ambulatory Surgical Procedures
- Anesthesia, Local/instrumentation*
- Anesthesia, Local/methods
- Equipment Design
- Humans
- Injections, Jet/instrumentation*
- Injections, Jet/methods
- Mepivacaine/administration & dosage
- Pain/prevention & control
- Skin/pathology
- Skin/surgery*
- Skin Diseases/surgery
- Skin Neoplasms/surgery
- Surgical Procedures, Minor
Time Factors

Substances:

Mepivacaine

Full Text Sources:

- EBSCO
- OhioLINK Electronic Journal Center

Education:

New England Research Institutes Inc.

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