

عنوان مقاله:

Visualization during endoscopic vs. open cubital tunnel decompression: A cadaveric study

محل انتشار:

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خلاصه مقاله:

Backgrounds: To determine the minimum incision size needed utilizing an open cubital tunnel technique to obtain equivalent and adequate visualization comparable to endoscopic technique. **Methods:** On ten fresh-frozen cadavers with a 2cm incision, visualization was assessed by percutaneous needle localization using the endoscopic system. The most proximal and distal extent of field of view was marked. Next, an open cubital tunnel release was performed on each cadaver specimen. The incision size was increased incrementally and the most proximal and distal extents of visualization were recorded for each incision size. The mean visualization distance and standard deviation for each incision length was calculated. **Results:** The mean proximal field of view with the endoscopic technique was 8.1 cm. The mean distal field of view was 8.3 cm. Using the open technique a 2cm incision allowed 5.9 cm visualization proximally and 5.2 cm distally, which was significantly less than the endoscopic view. A 4cm open incision provided similar visualization as the endoscopic technique. A 6cm open incision was required to obtain statistically significant improvements in visualization compared to endoscopic. **Conclusions:** A 4cm open incision was required to obtain equivalent visualization to the endoscopic technique for cubital tunnel release. Incision of 6cm is required to visualize 10cm proximal and distal to the medial epicondyle.

کلمات کلیدی:

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