

Wide Awake Local Anesthetic No Tourniquet in Hand and Wrist Surgery: Current Concepts, Indications, and Considerations

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Background: Traditionally, the use of a pneumatic arterial tourniquet was requisite for safe and effective surgery of the hand. The use of arterial tourniquets necessitates the use of regional or general anaesthesia. Wide-awake local anesthetic no tourniquet (WALANT) has emerged as a novel technique to overcome the limitations of tourniquet use in conjunction with regional/general anaesthesia. This review aimed to examine the safety and effectiveness of WALANT and provide guidance for surgeons with limited WALANT experience.

Methods: A literature review of MEDLINE was performed up to March 2021 to identify all articles related to the use of WALANT in hand surgery. Any article reporting original data related to the use of WALANT was eligible for inclusion.

Results: A total of 101 articles were identified through database searching. Of these, 79 met full inclusion criteria and described the use of WALANT in 19 elective and trauma procedures. Current data suggest that WALANT is safe and effective for use in a range of procedures.

Conclusions: WALANT surgery is increasing in popularity as evidenced by the variety of surgical indications reported in the literature. There is limited comparative data on the cost-effectiveness of WALANT compared to conventional methods. Current data suggest that WALANT is safe, better tolerated by patients and associated with direct and indirect cost savings. (*Plast Reconstr Surg Glob Open* 2024; 12:e5526; doi: 10.1097/GOX.00000000000005526; Published online 22 January 2024.)

INTRODUCTION

Traditional hand surgery requires pneumatic arterial tourniquets (AT) to maintain a bloodless field and improve visibility. However, extended tourniquet usage can lead to severe pain, requiring mitigation with either general or regional anesthetic. The wide awake local anesthetic no tourniquet (WALANT) technique can

negate this issue by infiltrating an adrenaline-containing local anesthetic (ACLA) into the operative field. Historically, infiltration of adrenaline into an extremity has been discouraged¹ due to the risk of ischemic necrosis in areas perfused by end arteries. Now, there is strong evidence to suggest WALANT is a safe technique and a favorable method of anesthesia for hand surgery. However, the uptake of WALANT remains slow.² The aim of this review is to explore the indications for WALANT in hand surgery and outline the benefits of this technique. The barriers to WALANT uptake will be discussed along with practical guidance on how to overcome these.

METHODOLOGY

A search of the PubMed database for all publications in the English language up to March 1, 2021 was performed with the Medical Subject Heading “WALANT.” In addition, all eligible studies’ reference lists were reviewed to include articles that add to the understanding of WALANT. Full-text review was performed for all selected articles.

Disclosure statements are at the end of this article, following the correspondence information.

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