

METHOXYFLURANE



IN THE MANAGEMENT OF SHOULDER DISLOCATION

INTRODUCTION

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- Methoxyflurane is increasingly used for acute pain management, especially in the pre-hospital environment.
- May offer advantages over IV opiates, such as ease of administration and faster recovery. (1)
- Approximately 75% of first-time glenohumeral dislocations occur during sports activity. (2)
- Many pitch-side sports medicine courses suggest a single careful attempt to reduce major joint dislocations within the practitioners skill set, before transfer to definitive care.

AIMS

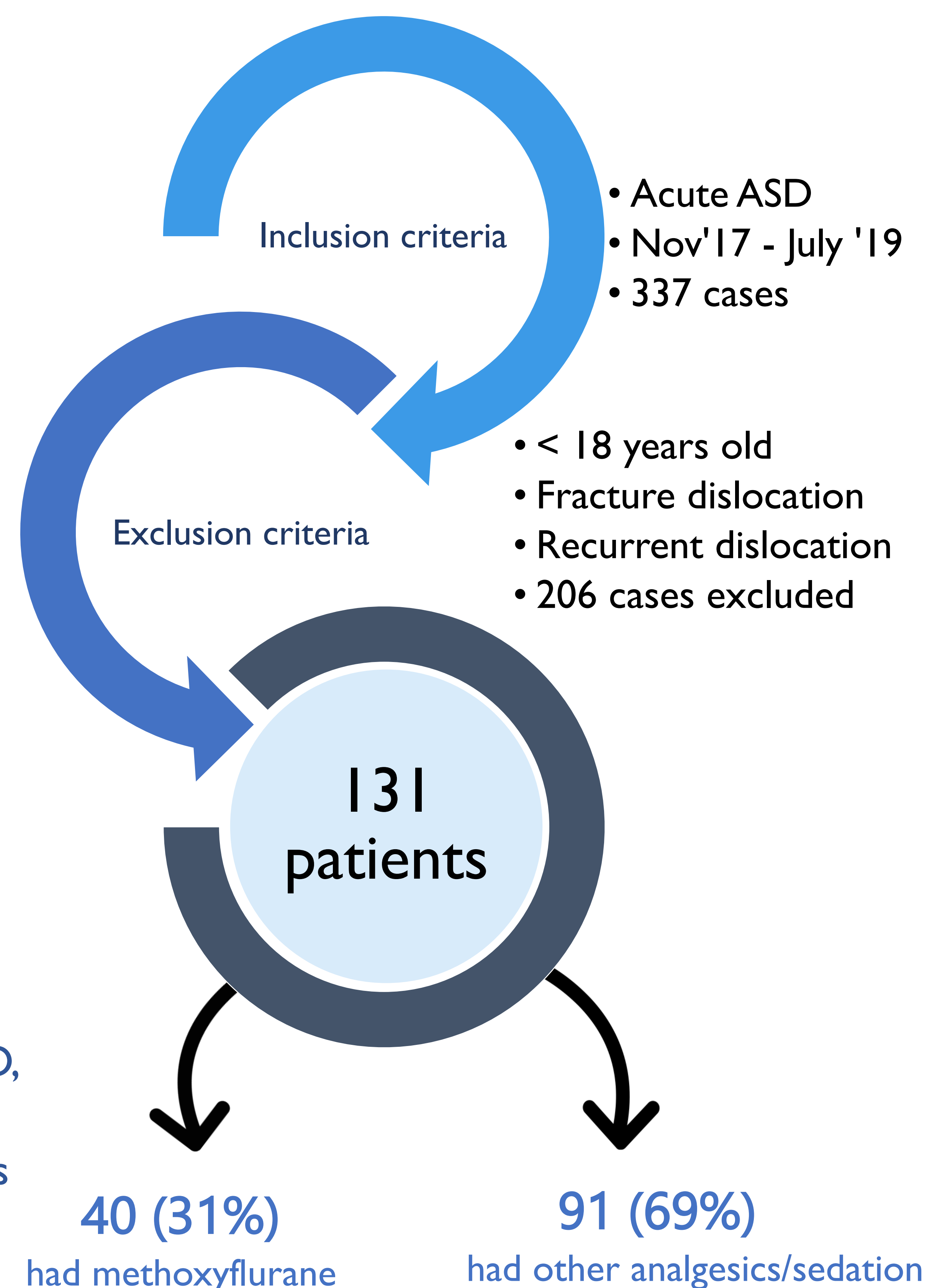
- 1 To evaluate the rate of successful reduction of anterior shoulder dislocation (ASD) with use of methoxyflurane.
- 2 To assess the time to ASD reduction with methoxyflurane, compared to cases where other agents were used.

METHODS

We conducted a structured retrospective review of patients with ASD presenting to the emergency department of the Royal Devon & Exeter Hospital, UK.

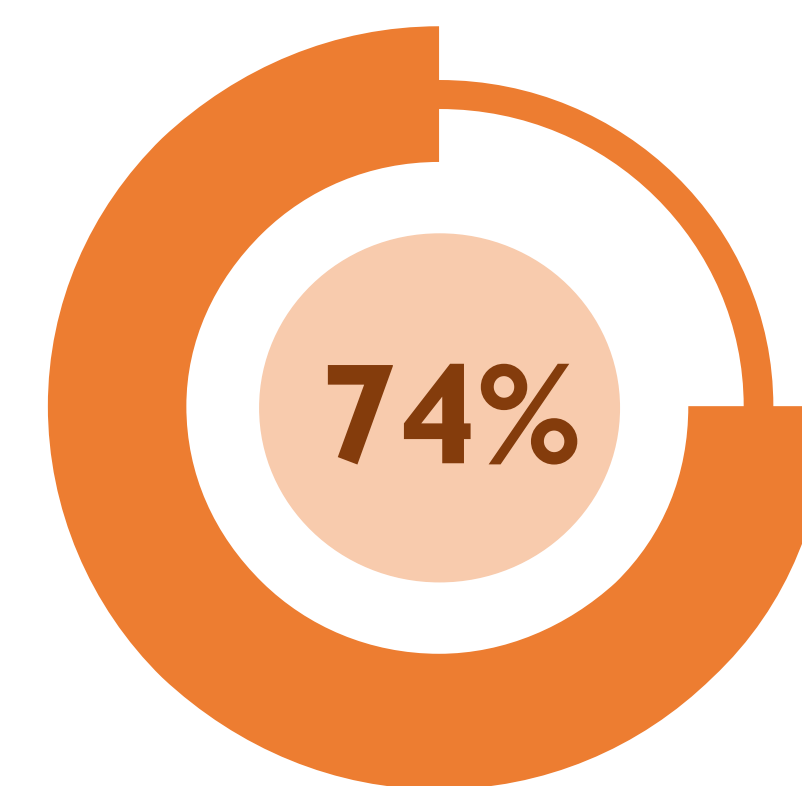
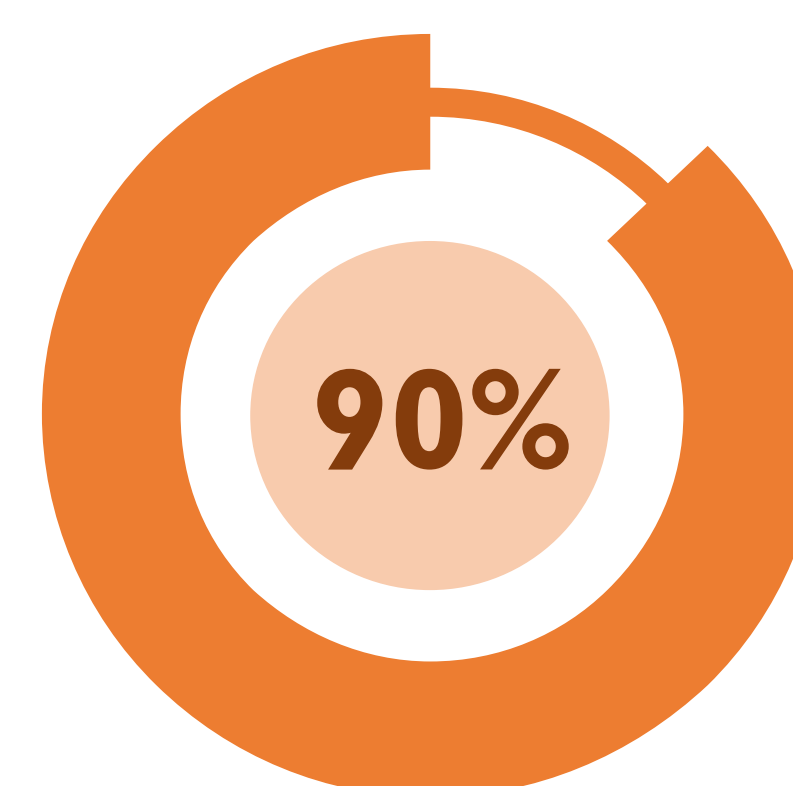
RESULTS & CONCLUSIONS

A success rate of 90% with methoxyflurane used as a first line agent for ASD, associated with a faster time to reduction and lower rates of opiate use, suggests it may be a useful adjunct to improve pitch-side management of this common sports injury. (2)



SUCCESSFUL REDUCTION ACHIEVED

(With methoxyflurane or non-methoxyflurane analgesic/sedative as the initial first-line agent)



TIME TO REDUCTION

(X-ray confirming ASD to post-reduction X-ray)

40 mins

68 mins



OPIATES USED

7.5%

46%



1. Porter KM, Siddiqui MK, Sharma I, Dickerson S, Eberhardt A. Management of trauma pain in the emergency setting: low-dose methoxyflurane or nitrous oxide? A systematic review and indirect treatment comparison. J Pain Res. 2018;11:11-21.

2. Shah R, Chhaniyara P, Wallace WA, Hodgson L. Pitch-side management of acute shoulder dislocations: a conceptual review. BMJ Open Sport Exerc Med. 2016;2(1):e000116.