

Innovation Brief

Medical Healthcare Furniture and Equipment - Shoulder Reduction Bench

Summary

Disruptive innovation

This briefing introduces a disruptive innovation newly available via NHS Supply Chain: The Shoulder Reduction Bench.

Reviewed by clinical specialists and supported by key stakeholders, this device offers a novel approach aimed at reducing treatment delays and unnecessary procedural sedation for anterior shoulder dislocation patients by introducing the shoulder reduction bench, an evidence-based technique enabling non-sedated shoulder relocation.

Introduction

This document is intended to inform clinical stakeholders and procurement teams about innovative products that have undergone a clinical review and are now accessible through NHS Supply Chain.

Products featured in this brief may be classified as:

- Disruptive innovations
 - A disruptive innovation is novel.
 - It should offer improvements compared to the existing provision of care.
 - The proposed format should not exist elsewhere (either within or beyond the health and care sector).

Please note: While robust evidence or validated savings may not yet be available, early data and clinical insights support the potential for patient and system-level improvements.

Departments / stakeholders for engagement

- NHS procurement teams
- NHS clinical pathway team
- Emergency departments

Opportunity

The shoulder reduction bench presents an opportunity to enhance patient care by:

- Improvement to process and faster treatment
- Improved staff and patient experience, with a reduction sedation medication requirement
- Reduction in consumables and associated medicines which creates cost savings

Product overview

The shoulder reduction bench is a piece of medical equipment that uses an adapted bench to manipulate the patients' shoulder. This was developed by consultant in Sunderland Royal hospital. Use of the bench has resulted in shorter waiting times and improved patient experience with less cost and risk associated with sedation.

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Product overview (continued)

This will take away the need to put patients in the resus room, which will provide more space for critically ill patients. Using the chair has led to a 68% reduction (equating figure) in the number of patients who need to be sedated, and an average reduction time from presentation at the department to discharge of 52 minutes, 31 minutes sooner than before (83 minutes).

Before the bench was introduced 57% of patients (n=30) required sedation and the average time to discharge was 3 hours 22 minutes. After the bench was introduced into practice 19% of patients (n=31).

Clinical relevance:

- Improved staff experience.
- Lower grade clinicians are suitable.

Additional benefits:

- Cost savings can be generated.
- Reduction in use of sedation needed for patients.
- Faster treatment.

Supply details

NPC - TSU85693 MPC - ESB02001-MIL

Route - eDirect and Direct
Supplier - Eureka Physiocare Ltd
Brand - STABIL
Unit of Issue - Each
Class 1 Medical Device



Supporting evidence / notes

https://journals.lww.com/euro-emergencymed/citation/2025/10000/effect_of_a_shoulder_reduction_bench_on_sedation.13.aspx
European Journal of Emergency Medicine - Effect of a shoulder reduction bench on sedation rates in the treatment of emergency department patients with anterior shoulder dislocations.

<https://bmjopenquality.bmj.com/content/8/2/e000366>
BMJ Journals - Shoulder reduction bench project: improving care for patients with shoulder dislocations.

<https://innovationlibrarynenc.org.uk/result/shoulder-reduction-bench/>
Innovation Library - Shoulder reduction bench. Innovative idea aids patients with dislocated shoulders.

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