

EPIDURAL FIXATION DEVICES IN LABOUR

Randomised controlled trial

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Uncontrolled variation is
the enemy of quality...

W. Edwards Deming

LockIt Plus



Epi-Fix

Tegaderm Film

Methods

- 165 participants
- Randomised to 1 of 3 devices
- **Epidural catheter migration during labour** (to 0.5cm)
- Also collected data on resites for failed epidurals – but not powered for this outcome
- Standardised insertion technique and adjuvant dressings
- Normal movement and position changes during labour
- Kruskal Wallis, chi squared, Fisher's exact test and regression analysis

Results

	Epi-Fix	LockIt Plus	Tegaderm	p
Number	55	54	51	
BMI; kg.m ⁻²	25.92 (5.8)	24.8(4.1)	26.3 (5.3)	0.39
Mean depth to epidural space; cm	5.2 (1.1)	5.3 (1.2)	5.3 (1.3)	0.85
Mean catheter length in space; cm	4.2 (0.5)	4.2 (0.4)	4.2 (0.5)	0.92
Mean duration; mins	663 (375)	696 (372)	632 (326)	0.73

Results

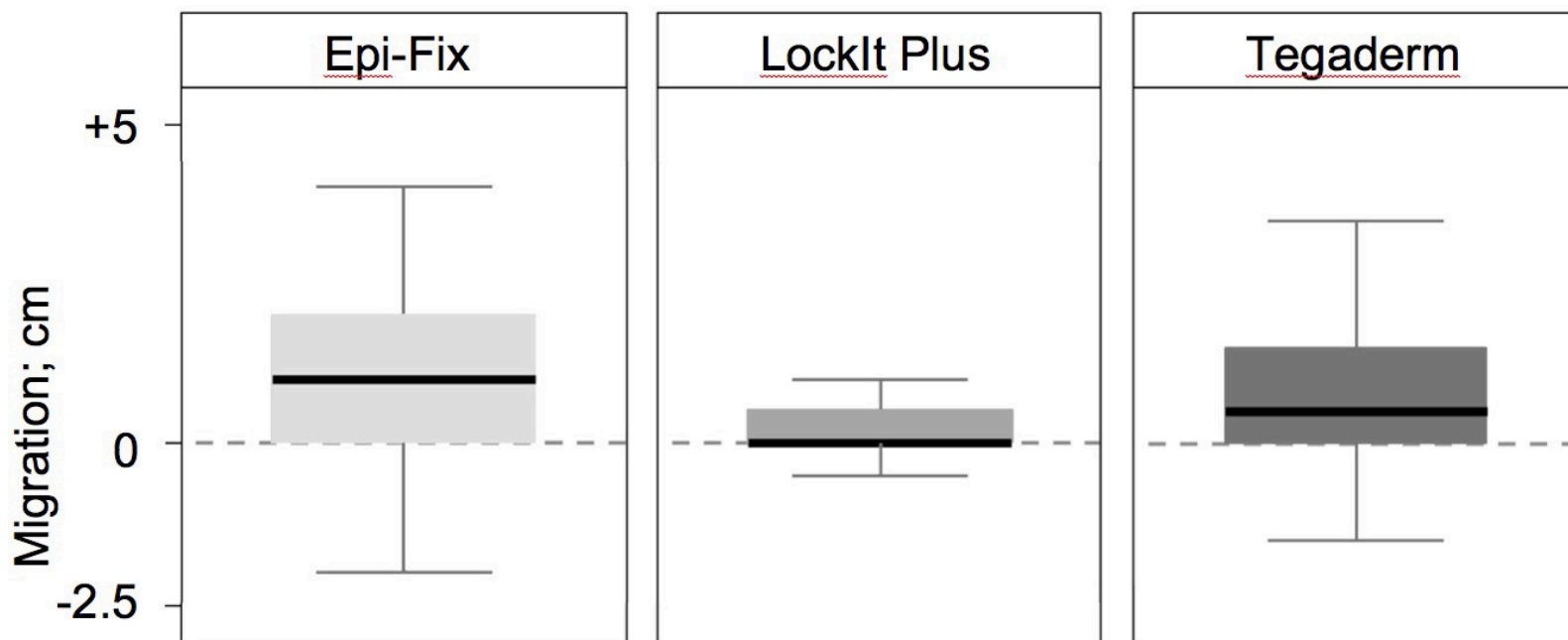
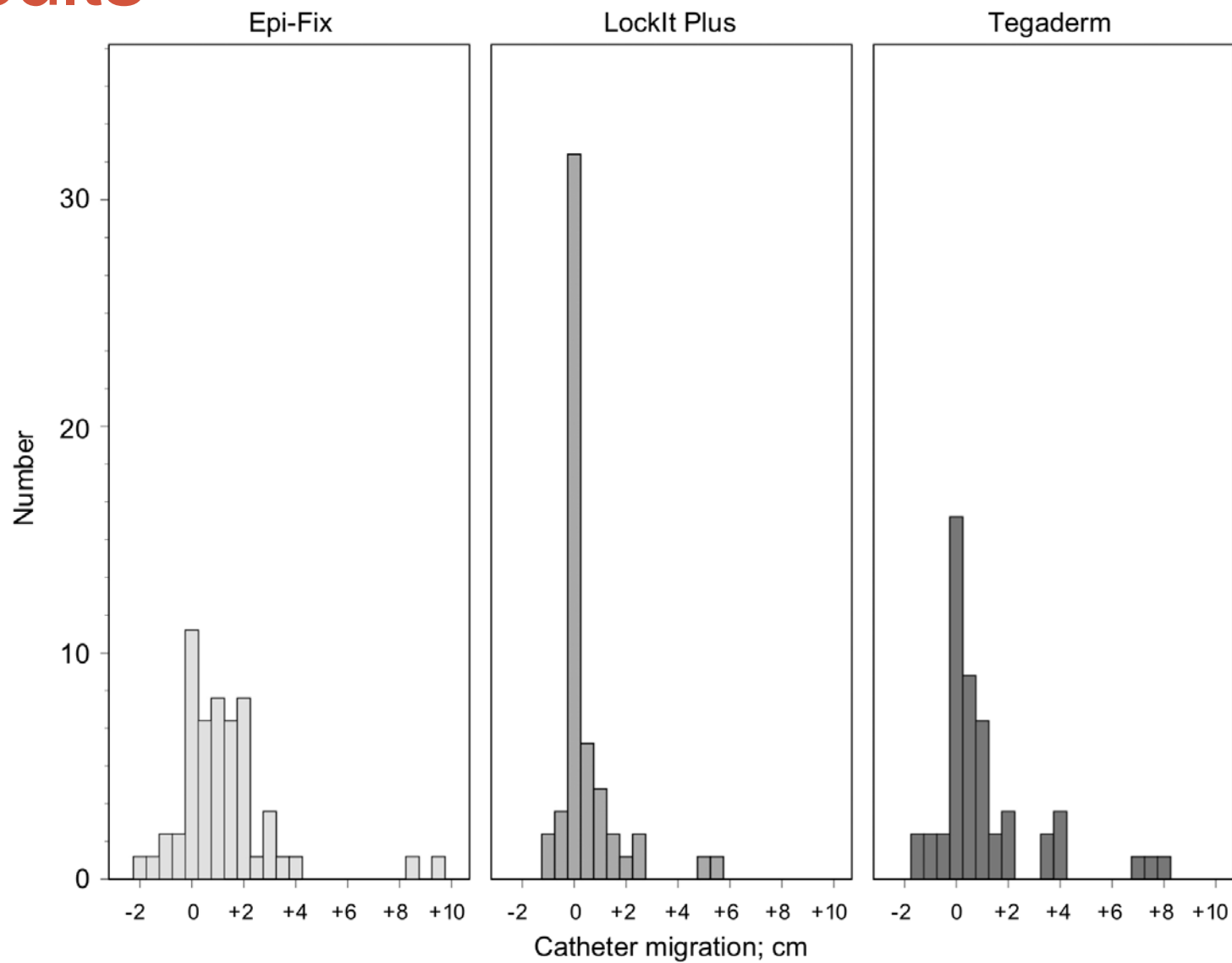
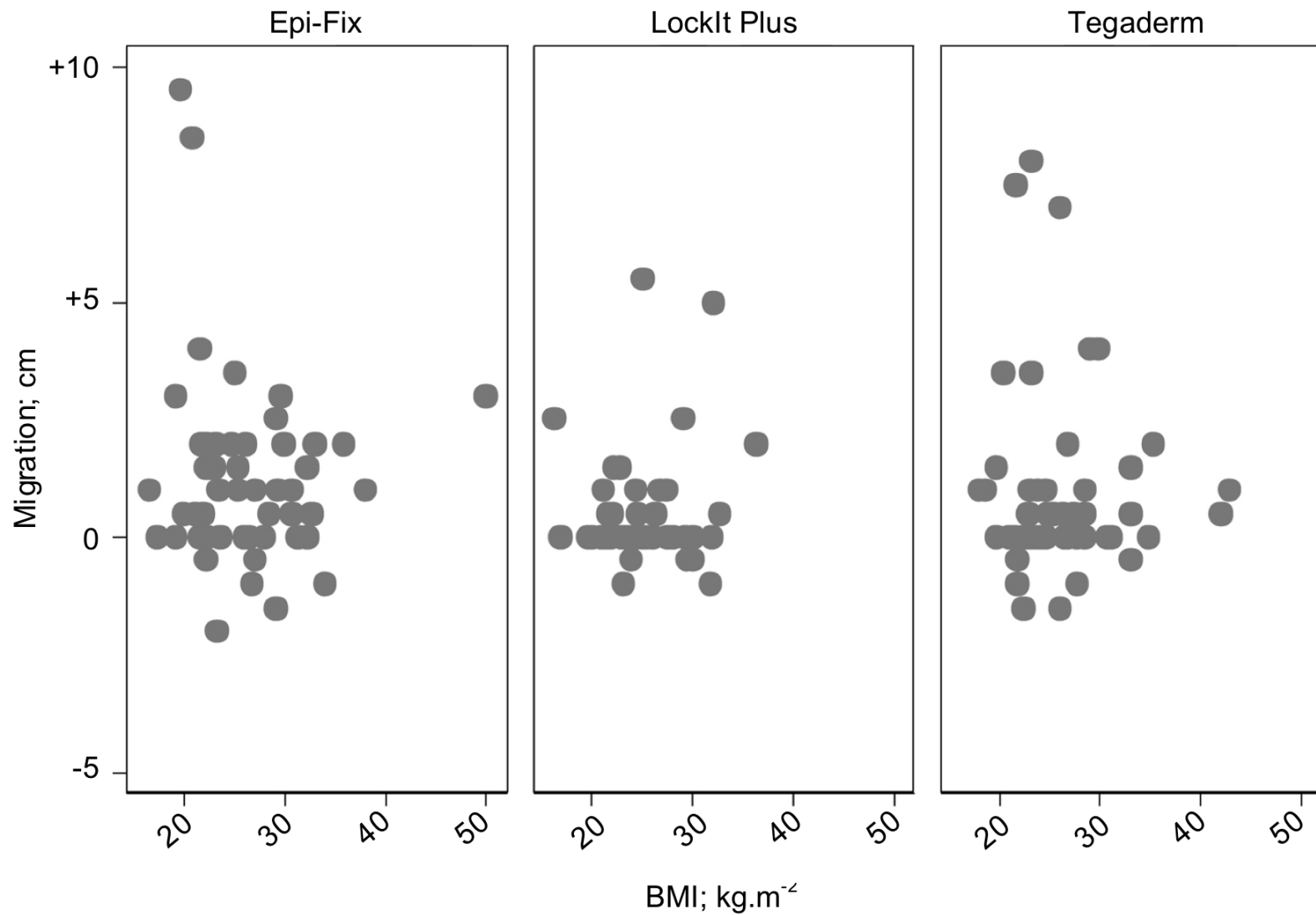


Figure 1. Epidural catheter migration box plot for Epi-Fix, LockIt Plus and Tegaderm.

Results



Results



Discussion and Conclusions

- Choice of epidural fixation device significantly effects epidural catheter migration
- LockIt Plus outperforms Tegaderm and Epi-Fix
- The ideal epidural fixation device...

Thank You