

An re-audit of anaesthetic management of hip fractures - are we doing it right?

INTRODUCTION

The Anaesthesia Sprint Audit of Practice (ASA was a collaboration between the Association Anaesthetists of Great Britain and Ireland and National Hip Fracture Database in 2013. collected data from 182 hospitals' and looked compliance with guidelines of hip fracture p operative care.

Their recommendations aimed reduce to substantial variation in hip fracture management against key standards¹ set in these guidelines.

Princess Alexandra Hospital was part of ASAP and our audit investigated whether our department made any improvement to current practice to adhere with guidelines and key recommendations.

METHOD

Prospective data collection for four weeks, commencing December 2014. All patients with traumatic hip fractures undergoing surgery were included. The same audit data collection sheet from ASAP was used and included eight subheadings:

• General anaesthesia Induction, maintenance, airway, ventilation	 Co-morbidities
Nerve block	• Specialist grade in theatre Anaesthetist, surgeon
• Spinal anaesthesia Sedation, supplemental O ₂ , patient position	 Bone cement implantation syndrome (BCIS) Hypoxia, hypotension, CV collapse
• Injectate Drug, concentration, baracity, volume, opioid	 Intraoperative blood pressure Pre-op, lowest systolic/diastolic peri-op.

M Reichman, J Hackney, H Goonerante Department of Anaesthetics, Princess Alexandra Hospital, Harlow

RESULTS

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20/25 patients were captured during this period (80%) Areas of good practice:

Standard

Anaesthetic to be performed by anaesthet with appropriate level of expertise

To consider spinal anaesthesia

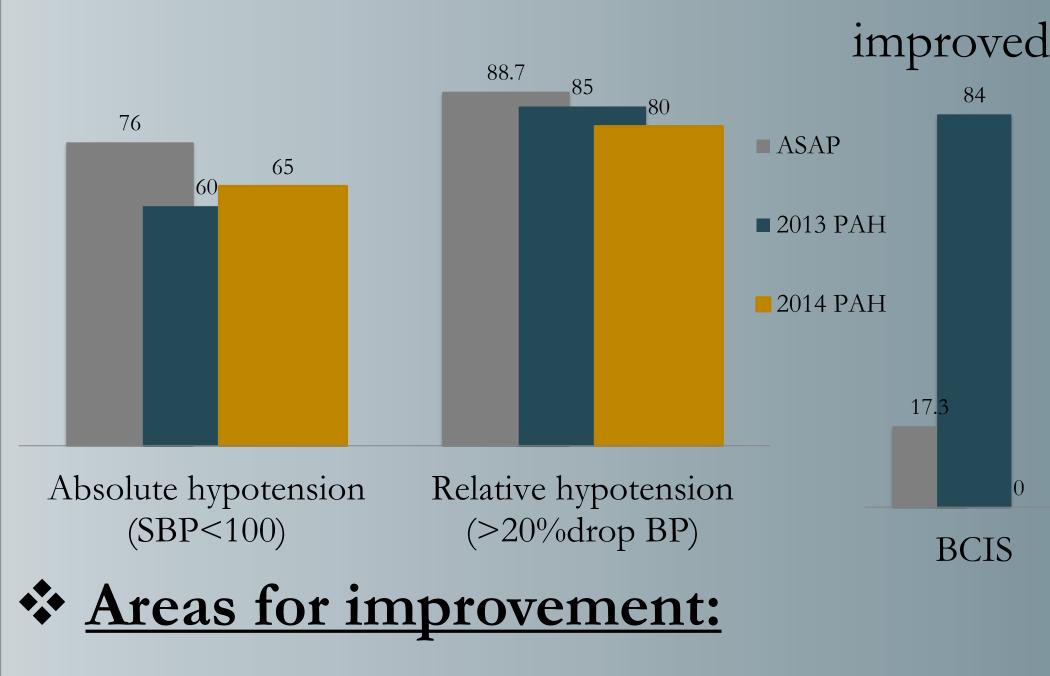
To use 0.5% hyperbaric bupivicaine in sp

Fentanyl to be used if opioid given in spin

Positioning of patient – lateral with bad s down

Improved areas of good practice:

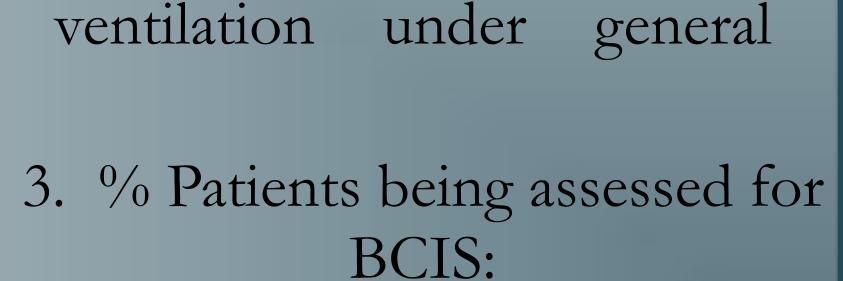
- 1. Allowing spontaneous ventilation under general anaesthesia (45%)
- 2. Avoiding hypotension: tighter BP control



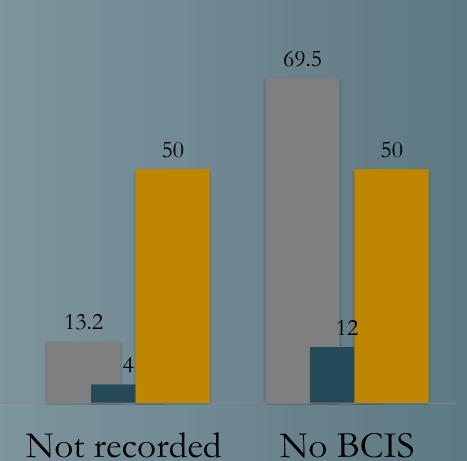
1. Only 40% of patients received perioperative nerve blocks 100% of patients received sedation BUT there was a wide Ζ. variation in sedation drug choice. An increased incidence of combined general and spinal anaesthesia (3% to 15%)

1. Falls and Fragility Fracture Audit Programme National Hip Fracture Database Anaesthesia Sprint Audit of Practice 2014 2. Association of Anaesthetists of Great Britain and Ireland. Management of Proximal Femoral Fractures 2011. Anaesthesia 2012 References: 3. The management of hip fracture in adults. Clinical guideline CG124. NICE, London 2011 (http://guidance.nice.org.uk/CG124). 4. Baker PN, Salar O, Ollivere BJ, et al. Evolution of the hip fracture population: time to consider the future? BMJ Open 2014;4:e004405.

	No. of patients	⁰∕₀
etist	20/20	100
	12/20	60
pinal	12/12	100
nal	12/12	100
side	11/12	92



improved incidence of BSIC



DISCUSSION

Why do we care?

Hip fracture is a major public health issue and carries an annual health and social care cost of two billion pounds. With an incidence of around 80,000 per year, it is the most common reason for an older person to have an anaesthetic and it carries a significant risk of morbidity and mortality^{3,4}. Both of these can be reduced by prompt surgical fixation and the outcome can serve as a marker of the quality of hospital care across many disciplines and departments¹.

How do we improve?

Evidence suggests that better outcomes are achieved with standardisation of practice. Based on current guidelines, there are a few key standards for which evidence base is most robust and where ASAP identified substantial variation in practice. If we can address these key areas, adhere to approved guideline and standardise practice, we can try ensure optimal peri-operative care¹:

Offering peri-operativ

• Implement teachin

Reducing incidence of

- Emphasis on not r anaesthetics
- Strict adherence to

Reducing inconsister anaesthesia

- GA or RA
- Education on choi
- An area of good p

Increasing awareness

- Multidisciplinary teaching sessions

ve nerve blocks	
ig programme	
of hypotension	
nixing general and spinal	
maintenance of MAP	
ncy to the approach of sp	oinal
ces of sedation practice for PAH	
s of BCIS	

• Guidelines posted in orthopeadic theatres