

TXA in #NOF Population



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&

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TXA Working Group

- Formed following last RTC
- Members consisted of: T. Hooper, C. Laxton, N. DeZoysa, M. Pyke, E. Cairns, J. Faulds, B. Ferguson, A. McCormick, V. Chandler-Vizard & K. Cowan.
- TXA working group discussed, research, individual trust feeling and when to administer/what dose/what route
- Developed a guideline for regional use
- Discussed regional retrospective audit/audit following implementation.

What does the research say?

SYSTEMATIC REVIEW

A systematic review of tranexamic acid in hip fracture surgery

- *Farrow et al 2016, British Journal of Clinical Pharmacology* = **No increase risk**

Tranexamic Acid Safely Reduced Blood Loss in Hemi- and Total Hip Arthroplasty for Acute Femoral Neck Fracture: A Randomized Clinical Trial

Watts, Chad D. MD; Houdek, Matthew T. MD; Sems, S. Andrew MD; Cross, William W. MD; Pagnano, Mark W. MD

Journal of Orthopaedic Trauma: July 2017 - Volume 31 - Issue 7 - p 345–351
doi: 10.1097/BOT.0000000000000837
Original Article

- *Watts et al JOT 2017, RCT* = **No increase adverse events at 30 or 90 days**

- Other regions such as Northumbria have implemented TXA into the #NOF pathway



Northumbria Healthcare NHS Foundation Trust 

PP 8.jpg

Hip fracture care at Northumbria: a quality improvement programme

Dominic Inman FRCS (Tr&Orth)
Consultant Orthopaedic Surgeon
Chair, HIPQIP steering group
Northumbria Healthcare NHS Trust


building
a caring
future

- Swindon have already implemented TXA into their #NOF pathway

Individual Trust feelings

NBT – All anaesthetists sent an on-line survey on current use of TXA

1. Do you routinely anaesthetise for Hip Fracture patients?

- Regularly (monthly) 29.4 %
- Occasionally (6 monthly) 37.2%
- Rarely (yearly) 27.4%
- Never 5.8%

2. Do you routinely give TXA to hip fracture patients?

- Yes 45.8%
- No 41.6%
- Other 12.5%

NBT findings

3. If you give TXA for Hip fracture patients, what dose do you routinely give?

43/51 responded – majority stated 1g

4. If you give TXA for Hip fracture patients, when do you give it?

44/51 responded majority stated on induction

5. Are there any Hip fracture patients you would not give TXA too?

43/51 responded with patients that had had previous PE or had thromboembolic disease, had CVA, renal failure, AF and allergy

NBT Findings

6. Do you think TXA should be given in ED, prior to surgery, both or at another time?

- ED 10.8%
- Prior to surgery 43.5%
- Other 21.7%
- Both 23.9%

7. Are you aware of any complications in patients who have been given TXA for hip fracture surgery?

44/51 replied majority stated no, 1 queried anaphylaxis.

Tranexamic Acid (TXA) in Hip Fracture Surgery

Method

- Check patient has not had TXA prior to theatre
- **Slow** IV injection over 10 mins on induction of anaesthesia
- No further doses required

Contraindications

- Stroke, Thromboembolic disease in the last 6 months
- Coronary stents within a year
- Allergy to TXA

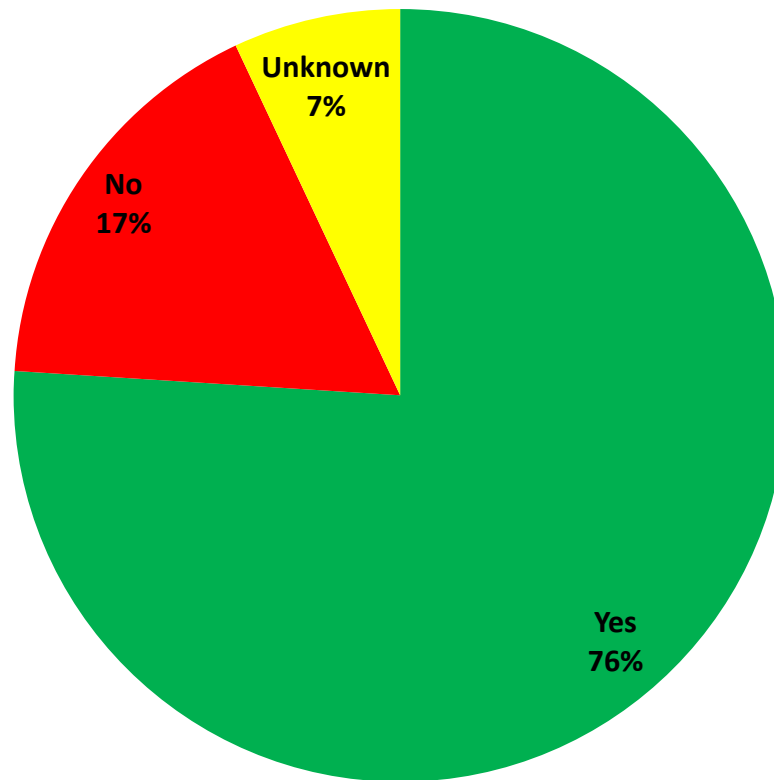
Dose

- **Standard: 15mg/Kg to max of 1g**
- **Renal Impairment:**

Serum Creatinine $\mu\text{mol/l}$	Dose I.V
120-249	10mg/kg BW
250-500	10mg/kg BW
>500	5mg/kg BW

- <https://www.medicines.org.uk/emc/product/1077/smpc>

TXA compliance in #NOF patients at NBT



What now?

- Review current practice regionally?
- Implement guideline
- Regional Audit of use