Emergency Care of Stroke

Jen McLean Senior Charge Nurse

Rachel O'Brien Lead Research Nurse

Emergency Department, Royal Infirmary of Edinburgh





Introduction



•Royal Infirmary of Edinburgh

Teaching Hospital

•ED ~ 350-400 patients per day

•Largest ED in Scotland

Hx of Stroke Care & Need for Improvement

•2013 Audit revealed a mean DTN of 92 mins (worst 173mins)

• Only 15% of our pts thrombolysised within 60 mins

This was not good enough!

We had to improve and FAST!!

What did we do?



Improvement Methods

- New triage system
- Improved pre-alert calls from SAS
- •Any FAST +ve patients within 4.5 hours treated as a Resus patient
- •ED and SAS agreed on this policy
- •Pre-alert call was standardised for all SAS personnel
- •Education throughout specialties
- •Centralised potential thrombolysis patients to one hospital



Improvement Methods

- Site specialty meetings
- •Paperwork reviewed and simplified (ongoing)

•All nurses to be trained in swallow assessment (currently 75%)

- •Swallow assessments on all patients ASAP
- Involve relatives immediately
- Named person to liaise with relatives o/a



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•Early recognition

•Pre-alert by SAS

•ED pre-alert Radiology and Stroke Team





•Confirm onset time

•Order CT scan

•Contact Radiology and Stroke team if not yet in attendance



•Nurse escort to CT (Doctor if required)

•Meantime review PMHx and DH



Discuss with family

•Review results and confirm diagnosis

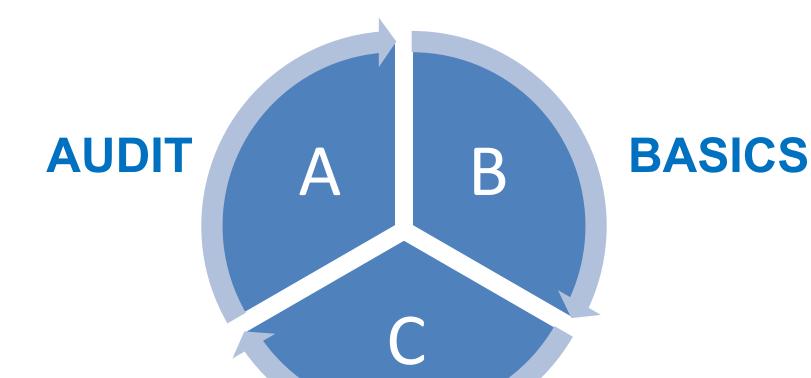


DTN ≤ 60 minutes

Mar Cont



1.12.



COLLABORATION

Improvement Methods - Audit

•Continue to audit and include intra-cerebral haemorrhages

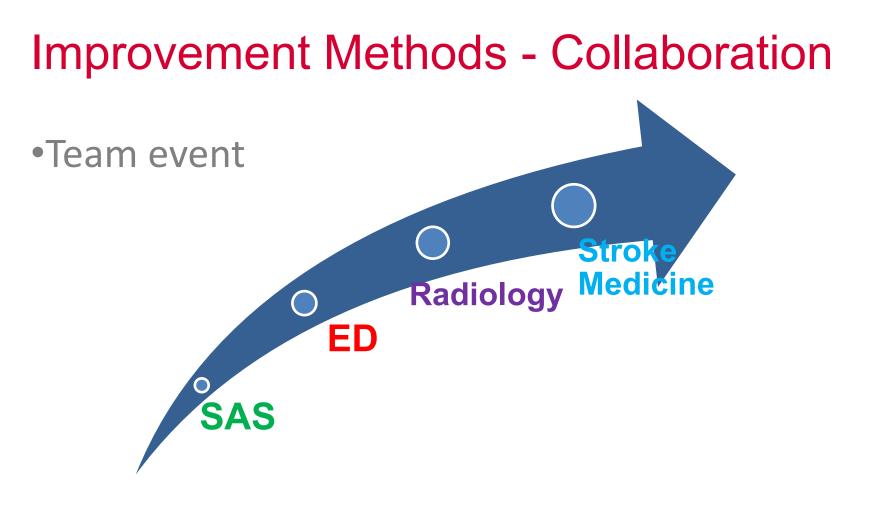
Audit all complication rates

Audit all outcomes

Audit the entire patient journey

Improvement Methods - Basics

- Get the Basics right!
 - •Pre-alert
 - •Early CT
 - Correct team in place
 - Early patient history
 - Documentation
 - Swallow Assessment



 It is vital to work together – no-one can do it alone!

Future Improvement

- •Continual Staff Education Multi-professional team
- •Continually reviewing and improving paperwork
- •100% nursing staff trained in swallow assessment
- •Keep family involved we need their information
- •Consider radiographer on site 24/7



Conclusion & Key Messages

- •Continual cycle
- •Work together
- Audit and Research
- Improve patient outcomes



Team event – multi-professional, patient and family

What about now?

74% of ALL suitable thrombolysis patients have a DTN time of under 60 mins!!

Best DTN last month = 19 minutes (OOH)



Thank you

Emergency Medicine Research Group Edinburgh

Emergency Department, Royal Infirmary of Edinburgh 51 Little France Crescent, Edinburgh, EH16 4SA

emergeresearch.org @emerge_research emerge@nhslothian.scot.nhs.uk



