



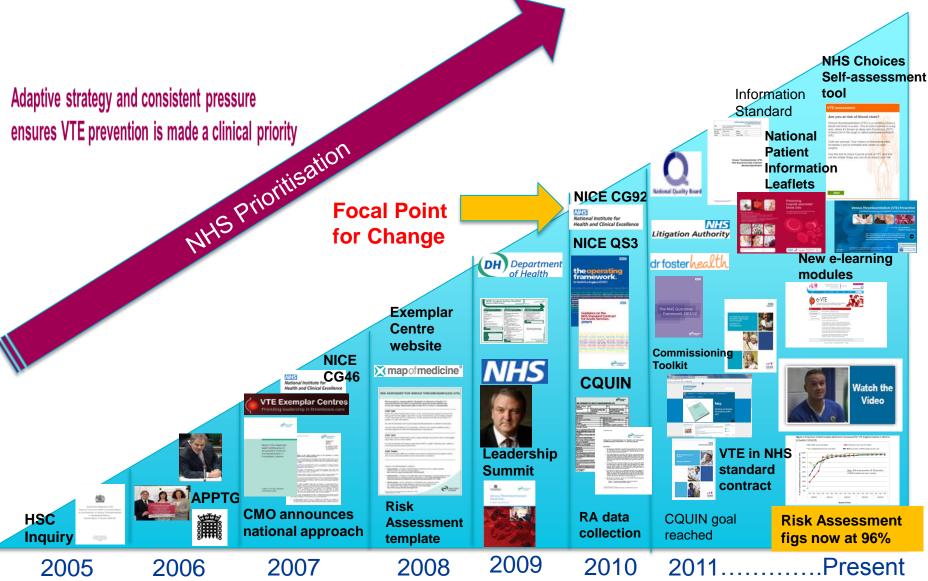
What is VTE?

- Venous Thromboembolism is a collective term for deep vein thrombosis (DVT) & pulmonary embolism (PE)
- Incidence 1-2 per 1000 population
- Around 64,000 cases in England every year
- Mortality rate ~10%
- Risk of developing VTE increases with age
- Estimated that 50% of cases are associated with hospitalisation
- As many as 2/3 of cases of Hospital-Associated Thrombosis (HAT) are preventable

The VTE Journey

www.england.nhs.uk







NHS England: Global Leaders

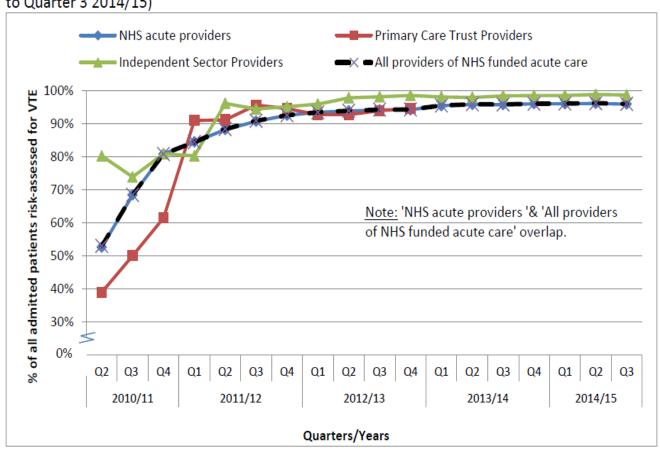
- Comprehensive, systematic approach to VTE prevention
- NHS England VTE Prevention Programme is the first national initiative of its kind anywhere in the world
- Key patient safety initiative:
 - Delivering high quality care
 - Reducing avoidable harm from VTE
 - ✓ Making hospitals safer
- Leadership from NHS, parliamentarians, charities....
- Striving for excellence VTE Exemplar Centres Network
- Delivered change, enabled by levers provided by NHS
- □ Risk Assessment rates have risen from <50% in 2010
- Now stand at 96%





The impact of CQUIN

Figure 1: Proportion of adult hospital admissions risk assessed for VTE, England (Quarter 2 2010/11 to Quarter 3 2014/15)





Former national CQUIN indicators

34.15 Where national CQUIN indicators have been in place for a number of years, with most providers having embedded the good practice described in the indicator within their local working arrangements, it is normal for the indicator to be retired from the national CQUIN scheme, with its place taken by new, more challenging national indicators.

45

- 34.16 In such cases, additional requirements in relation to the 'retired' indicators will be included in the NHS Standard Contract – and this is now the case for three such indicators.
 - Venous Thromboembolism (VTE). The national quality requirement (set out in Schedule 4B) remains that acute providers must undertake risk assessments for at least 95% of Service Users each month, with financial sanctions applying where this is not achieved. Requirements to undertake root cause analyses and audits of provision of prophylaxis are set out in SC22, and the provider must report on these under the Reporting Requirements (Schedule 6B).



VTE Risk Assessment is a National Quality Requirement

NHS Standard Contract 2015/16

Schedule 4B:

VTE risk assessment: all	95%	Review of monthly Service Quality	Where the number of breaches in
inpatient Service Users		Performance Report	the month exceeds the tolerance
undergoing risk assessment for			permitted by the threshold, £200
VTE, as defined in Contract			in respect of each excess breach
Technical Guidance			above that threshold



Service Conditions in the Contract

2015/16 NHS STANDARD CONTRACT SERVICE CONDITIONS

SC22 Venous Thromboembolism 22.1 The Provider must Α 22.1.1 comply with Guidance (including NICE Guidance) in relation to venous thromboembolism: perform Root Cause Analysis of all confirmed cases of pulmonary 22.1.2 embolism and deep vein thrombosis acquired by Service Users while in hospital (both arising during a current hospital stay and where there is a history of hospital admission within the last 3 months, but not in respect of Service Users admitted to hospital with a confirmed venous thromboembolism but no history of an admission to hospital within the previous 3 months); and 22.1.3 perform local audits of Service Users' risk of venous thromboembolism and of the percentage of Service Users assessed for venous thromboembolism who receive the appropriate prophylaxis, and the Provider must report the results of those Root Cause Analyses and audits to the Co-ordinating Commissioner.



Going beyond Risk Assessment...

- Reducing harm from VTE is about so much more than just 'ticking the risk assessment box'
- Need to 'get behind' the headline data
- Need to look at the quality of care that patients are receiving
- NICE QS3



What does Best Practice look like?..

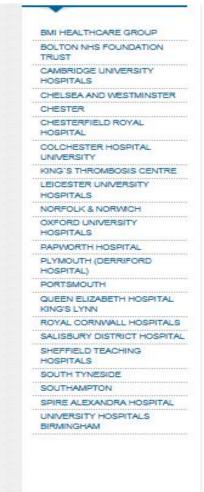
	NICE Quality Standard for VTE Prevention (QS3)
1	All patients, on admission, receive an assessment of VTE and bleeding risk using the clinical risk assessment criteria described in the national tool
2	Patients/carers are offered verbal and written information on VTE prevention as part of the admission process.
3	Patients provided with anti-embolism stockings have them fitted and monitored in accordance with NICE guidance.
4	Patients are re-assessed within 24 hours of admission for risk of VTE and bleeding.
5	Patients assessed to be at risk of VTE are offered VTE prophylaxis in accordance with NICE guidance
6	Patients/carers are offered verbal and written information on VTE prevention as part of the discharge process.
7	Patients are offered extended (post hospital) VTE prophylaxis in accordance with NICE guidance



Getting behind RA data....

- Commissioners: use available contracting levers to drive up quality and include quality statements in service specifications
- Primary Care: important role to play pre-elective admission & post discharge - ensuring appropriate pathways are in place so that patients with suspected VTE are seen in a timely fashion
- Exemplar Centres: important role in leading improvement locally







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Improving Outcomes

Improvement has been demonstrated. Corroborated by 3 studies:

- QI data at trust level: increased risk assessment, decrease in rates of HAT, increased rates of appropriate TP, reduction of inadequate prophylaxis,
- QuORU: 15% reduction in mortality nationally when 90% risk assessment goal reached
- Catterick & Hunt: in 2011 & 2012, around 940 deaths owing to VTE have been avoided in England.



Heart

ORIGINAL ARTICLE

Fatal venous thromboembolism associated with hospital admission: a cohort study to assess the impact of a national risk assessment target

Will Lester, ^{1,2} Nick Freemantle, ^{1,3} Irena Begaj, ¹ Daniel Ray, ¹ John Wood, ³ Domenico Pagano ^{1,2}

Blood Coagulation and Fibrinolysis 2014, 25:00–00

Impact of the national venous thromboembolism risk assessment tool in secondary care in England: retrospective population-based database study David Catterick^{a,b} and Beverly J. Hunt^c

www.england.nhs.uk



Case Study: King's College Hospital



- Thrombosis committee established 1999 an instrument for clinical governance and driving change
- Leader of VTE Exemplar Centres Network established 2007
- Director King's Thrombosis Centre is clinical lead for the National VTE Prevention Programme and chair of VTE Board
- Considers programme to be the largest successful quality improvement initiative in the NHS over last 20 years
- Continuous monitoring of outcomes:

VTE risk assessment is key performance indicator Regular audit vs NICE VTE prevention Quality Standard

Registry for RCA of cases of hospital-associated thrombosis



Preventing VTE



Thrombosis team

Staff education

Supportive managers

Exemplar Centres

freg insideration in thrombosis care

Over Exemplar Centres

Complaint In the Name

Complaint In

Midwives

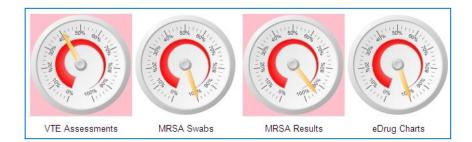
Patient information

VTE Prevention

Link Nurse/

Electronic VTEp systems

Audit programme RCA of HAT cases







CHEST

Original Research

PULMONARY VASCULAR DISEASE

Comprehensive VTE Prevention Program Incorporating Mandatory Risk Assessment Reduces the Incidence of Hospital-Associated Thrombosis

Lara N. Roberts, MD; Gayle Porter, MSc Adult Nursing; Richard D. Barker, MD; Richard Yorke, BSc(Hons); Lynda Bonner, PGDip; Raj K. Patel, MD; and Roopen Arya, PhD





- QI project at King's College Hospital 2010-12
- Mandatory, documented VTE risk assessment, thromboprophylaxis & guidance
- Mandatory VTE education
- identification of hospital-associated VTE via root cause analysis

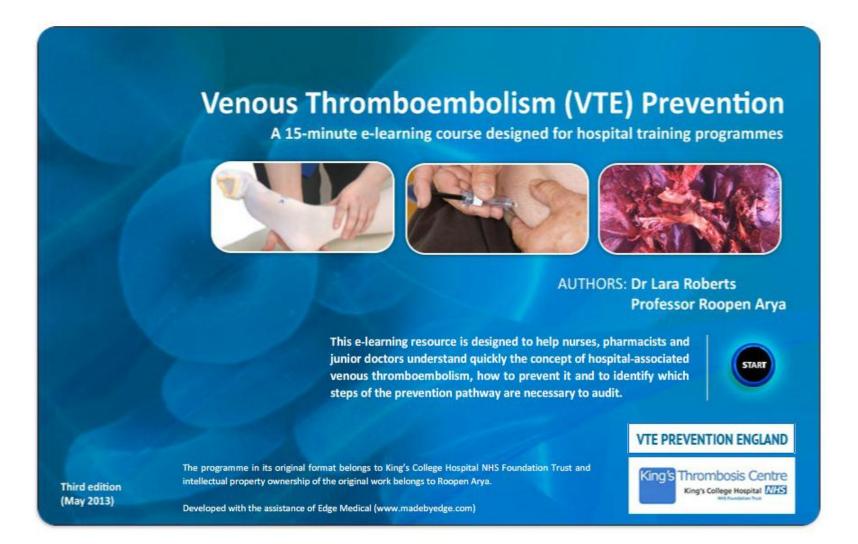
	2010-11	2011-12	p
VTE risk assessment	63% (38-88)	93% (90-97)	
HA-VTE	236	189	0.014
	19.7/month	15.8/month	
Inadequate prophylaxis among HA-VTE	37%	21%	0.005



The importance of Ongoing Education

- Over the last 12 months, the national programme has been working in partnership with HEE to develop suite of e-learning modules
- Aimed at:
 - Secondary Care
 - Undergraduates
 - Commissioners
 - Primary Care
- Launched November 2014
- Free to access on e-LfH
- http://www.e-lfh.org.uk/programmes/vte







VTE Prevention for Healthcare Undergraduate Students

NHS

Common Risk Factors for VTE during Hospitalisation

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There are many risk factors for developing VTE when hospitalised. Some are pre-existing patient related factors, which are usually not reversible, e.g. advanced age, or a carrier of a particular type of thrombophilia (e.g. Factor V Leiden) and some are related to the reason for admission to hospital, e.g. orthopaedic surgery leading to prolonged immobility or community acquired pneumonia requiring a hospital admission in an elderly patient.

The risk of VTE in a hospitalised patient depends not only on the reason for their hospital admission, but also on pre-existing patientrelated factors.

Some VTE risk factors are gender specific. For example, the gravid state is a well-recognised risk factor for VTE. For many years in the Western world, thrombosis and thromboembolism have been the leading causes of direct maternal morbidity and mortality. Risk assessing pregnant women for VTE is important throughout pregnancy and the postnatal period, and when appropriate, preventative measures should be prescribed.

Some risk factors can extend beyond their hospital admission. For example, elective orthopaedic surgery is a recognised risk factor for the development of VTE. In such patients, preventative measures extend beyond their hospital admission until the risk is thought to have diminished, and therefore pharmacological thromboprophylaxis is prescribed for up to 5 weeks post procedure.



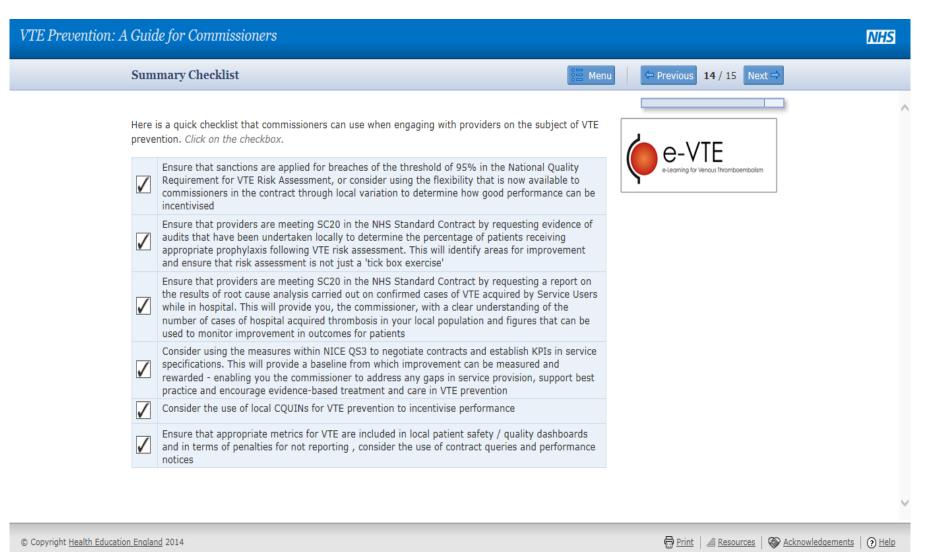














VTE Prevention in Primary Care

NHS

Presentation of VTE

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Click on the links below.

It is important to consider the possibility of DVT or PE in patients with the following clinical features, particularly if they are at increased risk of developing VTE, which includes the period after a hospital admission (3 months):

- · Presenting features of DVT
- · Presenting features of PE

These symptoms may be very subtle and therefore knowledge of risk factors is essential.

Patients with suspected VTE should be investigated and treated in a timely manner. If there is a delay in investigations being performed, an interim therapeutic dose of anticoagulation should be given.

For further information, please refer to NICE Quality Standard 29: The Diagnosis and Management of Venous Thromboembolic Diseases.



This picture shows skin changes that can be associated with chronic raised venous pressure from a previous DVT. These patients can develop new DVT and may describe an increase in pain or swelling.

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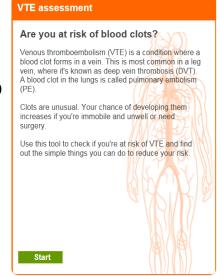
Patient Empowerment

Providing Information for patients/families/carers goes hand in hand with professional education & engagement

NHS Choices:

- Self-Assessment tool
- Paul Robinson story in Video

www.nhs.uk/bloodclots







"I hope that me telling my story makes people think and that it helps even a few.."

Paul Robinson,
Blackburn Rovers & former England International
Goalkeeper

