Clinicians' practice when evaluating VTE Risk due to Lower Limb Injuries within the Emergency Setting - Final

Page 1: Participant Information Sheet

Participants' Information Sheet

Research Project Title

Clinicians' practice when evaluating Venous Thromboembolism (VTE) risk due to lower limb injuries within the emergency setting (CPE-TRoLLIES Study).

1. Opening text:

You are invited to participate in a web-based online survey which is investigating Clinicians' knowledge and current practice on the prevention of VTE in patients who have sustained a lower limb fracture resulting in immobilisation either in the form of a backslab or a walking boot. This survey is part of a research project being conducted by myself, Lynda Gibbons, a Clinical Doctorate research student at the University of Stirling. It should take approximately 10 minutes to complete. You will be given some series of questions where you will be required to tick the appropriate box and also questions based on a scale ranging from "strongly agree" to "strongly disagree". Please read through these terms before agreeing to participate below.

2. Background, aims of project

The aim of this study is to explore clinicians' knowledge and current practice regarding VTE risk assessment and treatment of patients with lower limb injuries within the Emergency setting.

The evaluation aims to capture the current level of knowledge that ED clinicians have, their current practice and if any barriers or facilitators that exist in the prevention and assessment of VTE in patients who are discharged with a lower limb immobilisation.

3. Why have I been invited to take part?

You have been asked to take part in the study to gather further information regarding the barriers and facilitators towards the adherence and implementation of the use of the VTE risk assessment guidelines.

As a treating and discharging clinician within the Emergency Setting you are a key informant about the evaluation of adherence to VTE risk guidelines.

4. Do I have to take part?

No. Your participation in this survey is voluntary. You may refuse to take part in the research or exit the survey at any time without penalty by pressing the 'Exit' button / closing the browser. You are free to decline to answer any particular question for any reason – we have included a "prefer not to say" option for a few questions.

5. Are there any potential risks in taking part?

There are no foreseeable risks involved in participating in this study.

6. Are there any benefits in taking part?

There will be no direct benefit to you from taking part in this research. However, the information gathered from the results of the study may prompt guidance review and/or the development of further research in this area.

7. What happens to the data I provide?

Your answers will be completely anonymous, and we will use all reasonable endeavours to keep them confidential. Your data will be stored securely on a password protected IT and the document will also be password protected which will be only accessible to the researcher. Your IP address will not be stored. Supervisors and the statistican will only see the data after anonymization.

Research reports and publications will not include any information that may identify you or your organisation. The study data including (questionnaires data) will be stored in a secure place for 10 years as per the University data guidelines. All data will adhere to the GDPR (2018) requirements.

8. Will the research be published?

The research will be published in a peer reviewed journal following completion of the study. It may also be presented at an International Healthcare Conference.

9. Who has reviewed this research project?

This project has been ethically approved by The University of Stirling Ethics Panel as well as the HSE Recognised Ethics Committee (REC) under the European Network of Research Ethics Committees (EUREC).

10. Whom do I contact if I have concerns about this study or I wish to complain?

If you would like to discuss the research with myself Ms Lynda Gibbons (086) 6067266 or I.j.gibbons1@stir.ac.ukor if you have any concerns you can contact Professor Jayne Donaldson Dean of the Faculty Health Science and Sport in the University of Stirling.

Prof Jayne Donaldson– (0044) 1786 466343 or jayne.donaldson@stir.ac.uk

Page 2: Participants' Consent

When you log onto the survey you will be asked to read each statement and tick the appropriate box 'yes or no' before continuing with the survey. Once you begin answering the questions you will need to complete to the end as it will only save your answers once you hit the submit button. I appreciate if you could take the time to answer all the questions, you will not be able to go back and answer them later. Once submitted you can then print off a certificate of completion for your portfolio.

Consent

I have read and understood the Information Leaflet (January 2019 version 2) about this research project. * Required
C Yes C No
I understand that I don't have to take part in this study and that I can opt out at any time. I understand that I don't have to give a reason for opting out.
Please select exactly 1 answer(s). ☐ Yes ☐ No
I am aware of the potential risks and benefits of this research study.
Please select at least 1 answer(s). ☐ Yes ☐ No
I am satisfied that my information will be kept private and confidential.
Please select exactly 1 answer(s).

□ Yes
□ No
I have voluntarily agreed to participate in this research study.
Please select exactly 1 answer(s).
□ Yes
□ No
I am 18 years or older.
Please select exactly 1 answer(s).
□ Yes
□ No

Page 3: Consent

I have read the information provided. I give my informed consent to have my data processed as part of this research study. * Required

© Yes			
○ No			

Page 4: Demographic

What is your current position?
If you selected Other, please specify:
What is your specialty?
If you selected Other, please specify:
How many years have you worked in your specialty?
Which settings do you practice?

If you selected Other, please specify:
On average how many patients does your department see a year?
Are you male or female?
What is your age?
What is your highest level of qualifications?
DegreeMastersDoctorate/PhD

© Other	
If you selected Other, please specify:	

Page 5: Knowledge

Have you ever attended a course or in service program that provided information on venous thromboembolism (VTE) risk assessment and prevention? * Required
If yes, how would you rate the quality of the information you received? Optional
How would you rate your overall knowledge of venous thromboembolism (VTE) risk assessment? * Required
Which of these guidelines for venous thromboembolism management are you familiar with? (You may select more than one) * Required
☐ National Institute for Health and Clinical Excellence (NICE): 2012 guidelines
☐ Scottish Intercollegiate Guidelines Network (SIGN) (SIGN 122) guidelines
European Society of Anesthesiology (ESA) 2017 guidelines
College of Emergency Medicine 2012
□ BCSH Guidelines
☐ ACCP Guidelines
□ None of the above
□ None of the above
□ None of the above□ I don't Know

If you selected Other, please specify:
Which risk assessment forms are you familiar with? (You may select more than one) * Required
 □ Plymouth Rule Version 2 □ Plymouth Rule Version 3 □ GEMNet Risk Factors Score □ L-TRIP Score □ Modified Caprini Score □ None of the above □ All of the above □ I don't Know □ Other
If you selected Other, please specify:

Please read the following comments and (tick the most applicable). * Required

Please don't select more than 1 answer(s) per row.

Please select exactly 3 answer(s).

Please don't select more than 3 answer(s) in any single column.

	Strongly Disagree	Disagree	Agree	Strongly Agree
Patients with a lower limb immobilisation are not at risk of developing a VTE	Г	Г	Г	Г
VTE prophylaxis should be prescribed for all patients with lower limb immobilisation	Г	Г	Г	Г
VTE prophylaxis should not be prescribed for patients with lower limb immobilisation	Г	Г	Г	Г

All these patients are a potential risk of developing a VTE (tick the most applicable).

* Required

Please don't select more than 1 answer(s) per row.

Please select exactly 20 answer(s).

Please don't select more than 20 answer(s) in any single column.

	Strongly Disagree	Disagree	Agree	Strong Agree
Patients with a BMI over or equal to 30KG/m2	Г	Г	Г	Г
Patients older or equal to 60 years old	Г	Г	Г	Г
Recent pelvic surgery	Г			Г
Recent lower limb surgery	Г			Г
Recent abdominal surgery		Г		Г
Patients on anticoagulations				Г
Patients sustaining an achilles tendon injury	Г	Г	Г	Г

Patients on oral contraceptive pill (OCP)	Г	Г	Г	Г
Patients on hormone replacement therapy (HRT)	Г	Г	Г	Г
Recent pregnancy	Г	Г		Г
Patients with Varicose Veins			Г	Г
Patients with Cancer				
Patients with heart disease	Г			
Patients with lung disease				
Patients with bowel disease				
Patients with hormone disease				
Patients with history of thrombophilia	Г	Г	Г	Г
Patients with history of deep vein thrombosis (DVT)	Г	Г	Г	
Patients with history of pulmonary embolism (PE)	Г	Г	Г	Г
Family member who had a DVT or PE	Г	Г	Г	Г

Please rate the level of your concern regarding the risk of developing a VTE (tick the most applicable). **Required

Please don't select more than 1 answer(s) per row.

Please select exactly 20 answer(s).

Please don't select more than 20 answer(s) in any single column.

	Serious	Moderate	Mild	No
	Concern	Concern	Concern	Concern
Patients older than or equal to 60 years old	Г	Г	Γ	Г

Patients with a BMI over or equal to 30KG/m2	Г		Г	Г
Recent pelvic surgery	Г		Г	Г
Recent lower limb surgery	Г		Г	Г
Recent abdominal surgery	Г			
Patients on anticoagulations				
Patients sustaining an achilles tendon injury	Г	Г	Г	Г
Patients on oral contraceptive pill (OCP)	Г	Г	Г	Г
Patients on hormone replacement therapy (HRT)	Г	П	Г	Г
Recent pregnancy				
Patients with Varicose Veins	Г			
Patients with Cancer	Г			
Patients with heart disease	Г			
Patients with lung disease	Г			
Patients with bowel disease				
Patients with hormone disease	Г		Г	
Patients with history of thrombophilia	Г	Г	Г	Г
Patients with history of deep vein thrombosis (DVT)	Г	Г	Г	Г
Patients with history of pulmonary embolism (PE)	Г	Г	Г	Г
Family member who had a DVT or PE	Г	Г	Г	Г

Page 6: Clinical Guidelines

Does your hospital have local protocols o	or guidelines to aid in the management of VTE in
patients with lower limb immobilisation?	* Required

C Yes C No C I don't know
If Yes, which guidelines does your hospital use? * Required
 □ National Institute for Health and Clinical Excellence (NICE): 2012 guidelines □ Scottish Intercollegiate Guidelines Network (SIGN) (SIGN 122) guidelines □ European Society of Anesthesiology (ESA) 2017 guidelines □ College of Emergency Medicine 2012 □ Plymouth Guidelines □ BCSH Guidelines □ ACCP Guidelines □ I don't Know □ All of the above □ None of the above □ Other
If you selected Other, please specify:

Do you use any other guidelines to aid in the management of VTE in patients with lower limb immobilisation? **Required

YesNoI don't know
If Yes, which of these guidelines do you use?
 □ National Institute for Health and Clinical Excellence (NICE): 2012 guidelines □ Scottish Intercollegiate Guidelines Network (SIGN) (SIGN 122) guidelines □ European Society of Anesthesiology (ESA) 2017 guidelines □ College of Emergency Medicine 2012 □ Plymouth Guidelines □ BCSH Guidelines □ ACCP Guidelines □ I don't Know □ All of the above □ None of the above □ Other
If you selected Other, please specify:
Which risk assessment form does your hospital use? * Required
☐ Plymouth Rule Version 2 ☐ Plymouth Rule Version 3 ☐ GEMNet Risk Factors Score ☐ L-TRIP Score

Modified Caprini Score
□ I don't know
☐ All of the above
☐ None of the above
□ Other
If you selected Other, please specify:
Which risk assessment form do you use in clinical practice? ** Required
☐ Plymouth Rule Version 2
☐ Plymouth Rule Version 3
☐ GEMNet Risk Factors Score
□ L-TRIP Score
☐ Modified Caprini Score
□ I don't know
☐ All of the above
☐ None of the above
□ Other
If you selected Other, please specify:

C Always	
© Usually	
○ Sometimes	
© Rarely	
© Never	
 No guidelines in the department 	

How often are any or all of the previously mentioned guidelines or risk assessments

Have any of the previously mentioned guidelines or risk assessment forms ever been audited in your department? **Required

- © Yes
- O No
- I don't know
- No guidelines in the department

forms used in your department? * Required

Page 7: Clinical Practice

Are you aware of any patients who have returned to your department with a complication associated with a lower limb immobilisation while commenced on a prophylaxis? * Required

○ Yes					
○ No					
○ I don't know					
Other					
If you selected Other, I	olease specif	y:			
If Yes, please state the	complication	s reported.			
Your clinical decision	making? */	Required			
Please don't select more	than 1 answer	(s) per row.			
Please select exactly 4 a	nswer(s).				
Please don't select more	than 4 answer	(s) in any sing	le column.		
	Always	Usually	Sometimes	Rarely	Never

judgment instead of a recognised assessment tool	Г	Г	Г	Г	
How often do you complete a VTE risk assessment on your patients with lower limb immobilisation?	Г	Г	Г	Г	
If you assess patients with lower limb immobilisation for VTE do you document this?	Г	Г	Г	Г	
I usually base clinical decisions concerning VTE on one or more guidelines.	Г	Г	Г	Г	
Do you routinely pres * Required	scribe VTE pro	ophylaxis for _l	patients with l	ower limb imn	nobilisation?
C Yes C No C I don't know					

I use my clinical

What do you **routinely** prescribe for VTE prophylaxis for patients with lower limb immobilisation? Required

□ LMWH			

□ NOAC
☐ Rivaroxiban
☐ Warfarin
☐ Asprin
☐ Anti-embolic stockings
☐ All of the above
☐ None of the above
□ I don't know
□ Other
If you selected Other, please specify:
How much do patient's preferences influence your decision? * Required
© Frequently
Occasionally
© Sometimes
© Rarely
© Never

VTE risk assessment of patients with lower limb immobilisation. * Required

Please don't select more than 1 answer(s) per row.

Please select exactly 8 answer(s).

Please don't select more than 8 answer(s) in any single column.

	Always	Usually	Sometimes	Rarely	Never
Do you complete a VTE risk assessment form for patients with lower limb immobilisation?	Г			Г	Г
Do you complete the VTE risk assessment form in conjunction with the patient?	Г	Г		Г	Г
Do you weigh the patient?	Г	Г	Г	Г	
Do you measure the height of the patient?	Г	Г		Г	Г
Do you calculate the patients BMI?	Г	Г	П	Г	
Do you discuss with the patient risks and benefits of thrombolysis?	Г	Г		Г	Г
Do you give patients written information about VTE risks while in lower limb immobilisation?	Г			Г	Г
Do you give patients written information about VTE prophylaxisis?	Г	Г	Г	Γ	

Page 8: Barriers and Facilitators

Are there barriers that exist to prevent you from assessing patients with lower limb immobilisation for VTE? * Required

C Yes	
O No	
C I don't know	

Which of these are barriers in your own clinical setting that prevent you from assessing patients for risk of VTE? * Required

Please don't select more than 1 answer(s) per row.

Please select between 13 and 14 answers.

Please don't select more than 14 answer(s) in any single column.

	Yes	No
Too busy		Г
Forget about completing form		Г
No policy in your clinical setting		Г
No education provided		
No discharge advice for patients		Г
No height chart for measuring patients		Г
No weighting scales for patients		Г
No BMI conversion chart		Г
No VTE risk assessment forms available	Г	Г
Poor staff skill mix	Г	Г
Constant interruptions while with patients	Г	Г
No clear guidelines	Г	Г
No equipment available to give patients		

Other						
If Other (please specify): Optional						
How could these barriers be overcome? Optional						
Are there facilitators that you encounter that enable and allow you to prescribing VTE prophylaxis treatment for patients within the ED that have sustained a lower limb fracture? * Required						
© Yes						
© No						
I don't knowOther						
If you selected Other, please specify:						

for patients within the ED that have sustained a lower limb fracture?				
How satisfied are you with your current practice in relation to VTE risk and prevention for patients within the ED that have sustained a lower limb fracture? * Required				
Very satisfiedSatisfiedDissatisfiedVery Dissatisfied				
Are you aware of any patients who have returned to your department and were diagnosed as having a VTE as a result of a lower limb immobilisation? **Required*				
YesNoI don't know				
Would you like to receive education or training about VTE risk and lower limb immobilisation? * Required				
YesNoI don't know				

What are these facilitators that allow you to prescribing VTE prophylaxis treatment

Other					
If you selected Other, please specify:					
If you would like further education or training surrounding the topic of VTE, how long an education or training programme would you feel is appropriate?					
 □ Department inservice □ One day course □ Conference □ Week long course □ University based module - 3 months □ Post graduate certificate - 1 year □ Other 					
If you selected Other, please specify:					
Do you think patients should be informed about the risk of VTE when placed in a lower limb immobilisation? * Required					
YesNoI don't know					

Do you regard this as an important issue? * Required
YesNoI don't know
Is there anything not addressed in these questions that you would like to add?
Any additional comments?

Page 9: Final page

https://drive.google.com/file/d/1aaaKTfqHnYaNvkJE8gQJHWbr5ZegyCY8/view?usp=sharing

Thank you for your time in completing this questionnaire.

Key for selection options

3 - What is your current position?

Consultant

Specialist Registrar

Registrar

Nurse practitioner

Other

4 - What is your specialty?

Emergency medicine

Orthopaedics

General medicine

Haematology

Other

5 - How many years have you worked in your specialty?

- 1 5 years
- 6 10 years
- 11 -15 years
- 16 -20 years
- 21 + years

6 - Which settings do you practice?

Acute urban hospital – Emergency Department Acute rural hospital – Emergency Department Local Injury Unit Other

7 - On average how many patients does your department see a year?

<10,001 patients

10,001 - 20,000 patients

20,001 - 30,000 patients

30,001 -40,000 patients

40,001 -50,000 patients

50,001 - 60,000 patients

60,001 -70,000 patients

70,001 -80,000 patients

80,001 + patients

I don't Know

8 - Are you male or female?

Male

Female

Non-binary

Prefer not to say

9 - What is your age?

20-30

31-40

41-50

51-60

61-70

71+

11 - Have you ever attended a course or in service program that provided information on venous thromboembolism (VTE) risk assessment and prevention?

Yes

No

I don't know

-	12 - H	low would you rate	your overall knowledge	of venous thromboembolism
((VTE)	risk assessment?		

Poor

Fair

Good

Very Good

Excellent