Patient	Description	Inclusion	Exclusion	Rationale	Weaknesses
group					
In-patient	VTE death	ICD10 VTE	ICD10 VTE	Patients	Relies on accurate
VTE death	occurring	code* from	code at	admitted	HES admission coding
	while in-	ONS database	position 1 of	with	in index admission
	patient after	in position 1#	the HES	community	(that primary reason
	>3 days of	or position 1-	admission	acquired VTE	for admission is
	index	3~ of the		should be	coded at position 1).
	hospital	death		mostly	Otherwise cases of
	admission	certificate		excluded	delayed death after
		after >3 days			community acquired
		in-patient stay			VTE are included in
					analysis. Delayed
	ļ				death after admission
					with non-fatal
					hospital associated
					VTE is also excluded
VTE post-	VTE death	ICD10 VTE	ICD10 VTE	Exclude	Patients with
discharge	occurring	code from	code at any	patients with	previous history of
deaths <90	after	ONS database	position in	known	VTE may be excluded
days	discharge	in position 1	the HES	recent or	from analysis, even if
	from the	or position 1-3	index	chronic VTE	they develop hospital
	index	of the death	admission	disease.	associated VTE
	admission	certificate		Focus on	recurrence after the
	within 90	within 90 days		failure of	index admission
	days of	of discharge		primary	
	discharge			prevention	
Non-fatal	Readmission	ICD10 VTE	ICD10 VTE	Exclude	Unable to use HES
VTE	to hospital	code at	code at any	patients with	coding to accurately
readmission	with non-	position 1 or 2	position in	known	detect non-fatal VTE
	fatal VTE	of the HES	the HES	recent or	events occurring
	within 90	readmission	index	chronic VTE	during hospital
	days of	within 90 days	admission	disease.	admission. ICD10 VTE
	discharge	of the index		Focus on	code at position 2 not
	from index	admission		failure of	always a primary
	admission			primary	reason for admission
				prevention	

<sup>\*</sup>ICD10 VTE codes derived from DH (ref 5)

#Primary VTE death: ICD10 VTE code at position 1 of death certificate.

Supplementary table 1: Methodology for Patient Inclusion/Exclusion using HES/ONS Data

<sup>~</sup>VTE associated death: ICD10 VTE code at position 1, 2 or 3 of death certificate.