## Appendix S4: Results of secondary analyses

Table 1 shows the p-values for univariable analysis. There was little difference between the analyses. Some variables were significant predictors (p<0.05) on secondary analysis that were not significant predictors on primary analysis, for example giving up smoking during the pregnancy, history of varicose veins and history of thrombosis, but this simply reflected the p-value moving to the other side of the 0.05 threshold, presumably due to a slightly larger sample size.

Table 1. Onivariable analysis (p-values)				
Variable	Primary	Secondary	Secondary	Secondary
	analysis	with	with	with
		clinically	clinically	subsegmental
		diagnosed	ruled out	PE excluded
		PE	PE	
Age (continuous)	0.179	0.307	0.166	0.187
Age over 35	0.176	0.247	0.177	0.256
BMI (Continuous)	0.372	0.587	0.256	0.253
BMI 30 or more	0.942	0.631	0.775	0.781
Ex-smoker (Prior)	0.837	0.901	0.842	0.792
Ex-smoker (During)	0.082	0.082	0.035	0.080
Current Smoker	0.279	0.159	0.318	0.354
Pregnancies < 24 weeks (Continuous)	0.509	0.386	0.679	0.440
1 or more pregnancy < 24 weeks	0.980	0.937	0.776	0.883
Pregnancies > 24 weeks (Continuous)	0.017	0.014	0.014	0.017
1 or more pregnancy > 24 weeks	0.198	0.243	0.217	0.224
Previous pregnancy problems	0.442	0.888	0.252	0.493

## Table 1: Univariable analysis (p-values)

Previous pregnancy problems	0.442	0.888	0.252	0.493
Family History of VTE	0.205	0.125	0.324	0.160
History of Varicose Veins	0.045	0.084	0.033	0.056
History of IV Drug use	0.800	0.910	0.719	0.775
Known Thrombophilia	0.745	0.993	0.934	0.801
Surgery in previous 4 weeks	0.001	0.003	0.000	0.000
Injury in last 4 weeks	0.959	0.845	0.910	0.998
Previous VTE	0.073	0.092	0.025	0.081
Other previous medical problem	0.829	0.989	0.760	0.955
Other previous medical problem (VTE-	0.941	0.941	0.941	0.941
related)				

2nd Trimester	0.234	0.573	0.064	0.185
3rd Trimester	0.324	0.635	0.196	0.283
Post-Partum	0.101	0.105	0.168	0.142
Multiple Pregnancy	0.191	0.097	0.299	0.220
Long-haul travel during pregnancy	0.006	0.002	0.011	0.007
3 or more days Immobility/bed rest	0.887	0.988	0.970	0.995
during pregnancy				
Received thromboprophylaxis	0.000	0.000	0.000	0.000
Previous thrombotic event this	0.226	0.085	0.157	0.203
pregnancy				
Other problem with this pregnancy	0.006	0.095	0.003	0.006
Other problem with this pregnancy	0.713	0.815	0.903	0.772
(VTE-related)				
Presenting : Pleuritic chest pain	0.842	0.774	0.982	0.767
Presenting : Non-pleuritic chest pain	0.457	0.391	0.464	0.405
Presenting : Shortness of breath	0.520	0.895	0.796	0.317
(Exertion)				
Presenting : Shortness of breath (Rest)	0.142	0.135	0.104	0.239
Presenting : Haemoptysis	0.129	0.109	0.320	0.103
Presenting : Cough	0.988	0.913	0.772	0.940
Presenting : Syncope	0.218	0.090	0.189	0.291
Presenting : Palpitations	0.598	0.424	0.521	0.595
Presenting : Other	0.914	0.771	0.888	0.989
Temperature > 37.5	0.020	0.017	0.022	0.015
Temperature (Continuous)	0.003	0.002	0.001	0.003
Diastolic < 50 mmHg	0.221	0.195	0.162	0.202
Diastolic (Continuous)	0.256	0.503	0.210	0.265
Systolic < 90 mmHg	0.205	0.164	0.162	0.191
Systolic (Continuous)	0.322	0.137	0.480	0.350
O2 Saturation < 94%	0.000	0.001	0.000	0.000
O2 Saturation (Continuous)	0.000	0.001	0.000	0.000
Respiratory Rate > 24/min	0.919	0.956	0.722	0.798
Respiratory Rate (Continuous)	0.948	0.841	0.592	0.869

Heart rate >100/min (110/min 3 <sup>rd</sup>	0.556	0.618	0.615	0.524
trimester)				
Heart Rate (Continuous)	0.126	0.063	0.126	0.084
Clinical signs of DVT	0.199	0.104	0.418	0.274
PE related ECG abnormality	0.579	0.580	0.760	0.631
PE Related CXR abnormality	0.010	0.018	0.007	0.019
Other CXR abnormality	0.001	0.001	0.001	0.001
PE is most likely diagnosis OR equally	0.156	0.156	0.156	0.156
likely (permissive)				
PE is most likely diagnosis OR equally	0.000	0.000	0.000	0.000
likely (strict)				

Table 2 shows the AUROC estimates for the clinical decision rules. The results for secondary analyses were similar to the primary analysis.

Decision rule	Primary analysis	Secondary with	Secondary with	Secondary with
		clinically	clinically ruled	subsegmental
		diagnosed PE	out PE	PE excluded
Primary consensus	0.626	0.621	0.626	0.629
Sensitive consensus	0.620	0.599	0.629	0.622
Specific consensus	0.589	0.592	0.582	0.592
PERC	0.621	0.610	0.619	0.623
Simplified Revised	0.579	0.575	0.572	0.579
Geneva				
Well's (permissive)*	0.577	0.580	0.577	0.578
Well's (strict)*	0.732	0.716	0.728	0.731

## Table 2: AUROC estimates for the clinical decision rules

Table 3 shows the results for D-dimer analysis using the hospital laboratory measurements. Inclusion of women with clinically diagnosed PE and exclusion of women with subsegmental PE resulted in small changes to sensitivity, while inclusion of women with clinically ruled out PE resulted in a small increase in specificity. None of the estimates in the secondary analysis differed in a meaningful way to the primary analysis.

## Table 3: D-dimer (hospital) sensitivity and specificity

Threshold	Parameter	Primary	Secondary with	Secondary with	Secondary with
		analysis	clinically	clinically ruled	subsegmental
			diagnosed PE	out PE	PE excluded
Standard	Sensitivity	0.884	0.878	0.884	0.878
			0.7445 to 0.945		0.730 to 0.954

		0.741 to 0.956	43/49	0.741 to 0.956	36/41
		38/43		38/43	
	Specificity	0.088	0.088	0.092	0.088
		0.047 to 0.156	0.047 to 0.156	0.052 to 0.156	0.047 to 0.156
		11/125	11/125	13/141	11/125
Gestation	Sensitivity	0.698	0.694	0.698	0.707
specific		0.537 to 0.823	0.544 to 0.813	0.537 to 0.823	0.543 to 0.833
		30/43	34/49	30/43	29/41
	Specificity	0.328	0.328	0.355	0.328
		0.248 to 0.419	0.248 to 0.419	0.277 to 0.440	0.248 to 0.419
		41/125	41/125	50/141	41/125