Thrombophilia	Incidence	Thrombotic risk	Incidence of first thrombosis	Incidence of recurrent thromboembolism
Antithrombin (AT) deficiency	1 in 5005000	15-20 fold	1.8% per year (1.1 – 2.6%)	10% per year (6.1- 15.4%)
Protein C (PC) activity	1 in 500 (0.14- 0.5%)	15-20 fold	1.5% (1.1- 2.1%)	6.0% (3.9-8.7%)
Protein S (PS) deficiency	1 in 1000 (0.03- 0.13%)	15-20 fold	1.9% (1.3%- 2.6%)	8.4% (5.8%-11.7%)
Factor V Leiden	Caucasian 2-10%	Heterozygotes 3.5 fold Homozygotes 18 fold	0.5% per year, heterozygotes	1.56 fold (2.8% to 7.5% per year)
Prothrombin gene G20210A mutation	Northern Europe - 1.7% (1.3- 2.2%) Southern Europe - 3.0% (2.3- 3.7%) US African American 0.2% Asian 0	2-3 fold	0.3% per year	1.45 fold (0-2.9% per year)
Dysfibrinogenemia	Rare 0.8% of DVT patients	Not known	Not known	Not known
Hyperhomocysteinemia	Mild homocysteinemia 5-7% or population, homocystinuria- 1in 58,000 to 1,000,000	2-3 fold for mild hyperhomocysteinemia, 50% of patients with homocystinuria suffer thromboembolism by age 30	Not known	Not known
Methylene Tetrahydrofolate Reductase C677T Polymorphism	Homozygotes 12%	1.5 fold (1.2-1.9)	Not known	Not known
Factor VIII activity	11% of controls in Leiden Thrombophilia study (LETS)	4.8 fold increased risk of initial	0.49% per year	6.7 fold increased risk
Factor IX antigen	3% in healthy controls in LETS	2.5 fold increased risk	Not known	Not known
Factor XI antigen	10% of healthy controls in LETS	2.2 fold increased risk	Not known	Not known
Antiphospholipid antibodies	3-5% of general population, up to 50% in SLE patients	4.1-16.2 fold increased risk for thrombosis with LA,		6.8 fold increase
		1-2.5 fold for		2.5 fold increase

## Table III. Inherited and acquired thrombophilic disorders and incidence of venous thromboembolism

anticardiolipin antibodies,	
3.5-5.2 fold increased	
risk for	
Beta2Glycoprotein I	
antibodies	

**Abbreviations:** DIC- disseminated intravascular coagulation, MTHFR- methylene tetrahydrofolate reductase, CBS- cystathionine beta synthase, SLE- systemic lupus erythematosus, LA- lupus anticoagulant, DVT

## Compiled from:

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Lijfering WM, et al. Brit J Haematol. 2010., Rosendaal FR. Thromb Haemost 1999., Lijfering WM et al. Blood 2009., Segal JB et al. JAMA 2009., Giannakopoulos B, Passam F, et al. Blood 2009., Ray JG. Curr Opin Pulm Med 2008., Bertina RM. *Pathophysiol Haemost Thromb*. 2003, 2004.