

Supplemental Table

Characteristics of the genetic defects and onset of thrombotic episodes in the 15 unrelated Chinese subjects carrying Arg147Trp and Lys150del variants

patient No.	Age/sex	Activity (%)	Antigen (%)	Nucleotide variation (DNA)	Amino acid substitution	Thrombotic episodes (onset age)	Thrombophilic factors	Thrombotic episodes (family member)
1	20/M	19.0	42.0	g.1474G>A g.6152C>T	p.Glu29 Lys p.Arg147Trp	PE (19)		DVT, PVT (father with p.Glu29Lys)
2	27/M	39.0	42.1	g.5498C>T g.6152C>T	p.Arg15Trp p.Arg147Trp	DVT(25), DVT(26)		
3	24/M	46.0 19.5 ^a	64.4 20.9 ^b	g.6152C>T c.1680T>A ^c	p.Arg147Trp P.Tyr519X ^d	PE (22), DVT(22), DVT (24)	Protein S deficiency	DVT (father with p.Tyr519X in PROS)
4	47/M	30.0	48.4	g.6152C>T g.6245C>T	p.Arg147Trp# p.Arg178Trp#	DVT (40y), DVT (43)	Cholecystectomy	DVT (brother with the double mutations)
5	24/F	38.6	45.3	g.6152C>T	p.Arg147Trp	DVT (23), DVT (24)		
6	68/M	46.8	67.2	g.6152C>T	p.Arg147Trp	Both DVT and PE (68)	Cholecystectomy	
7	24/F	65.9	76.5	g.6152C>T	p.Arg147Trp	DVT (21)		
8	33/F	63.9	71.8	g.6152C>T	p.Arg147Trp	DVT (33)	Puerperium	
9	19/M	69.4	74.9	g.6152C>T	p.Arg147Trp	DVT (19)		
10	28/M	63.9	64	g.6152C>T	p.Arg147Trp	DVT (28)		
11	32/F	1.2	0	c.3135C>G c.6128T>G	p.Cys64Trp p.Phe139Val	DVT (24), MVT (30), DVT(31)		DVT, MVT and disseminated thrombosis (mother with p.Cys64Trp)
	6/F*	30.5	54.8	c.6128T>G c.6161-6163delAAG	p.Phe139Val p.Lys150del			
12	30/M	36.0	57.0	c.26T>C c.7212 C>T c.6161-6163delAAG	p.Leu-34Pro# p.Ala209Val# p.Lys150del	DVT (28y), DVT (30)	Protein S deficiency	DVT (mother with p.Lys150del combined with protein S deficiency), MVT (brother with the double mutations)
	proteinS	18.0 ^a	23.7. ^b					

13	19/M	50.3	61.3	c.6161-6163delAAG	p.Lys150del	Left CVT (19) DVT (19)
14	28/M	68.7	68.2	c.6161-6163delAAG	p.Lys150del	DVT (27)
15	18/F	56.0	44.0	c.6161-6163delAAG	p.Lys150del	

PC:A: 70-140%; PC:Ag: 70-130%; FPS:A: 63~135%; FPS: Ag: 60~150%.

a: FPS:A; b: FPS: Ag; c: PS cDNA; d: PS amino acid substitution; #: double mutations: *daughter of the Patient 11

DVT: deep venous thrombosis (indicating the low extremity here); PE: pulmonary embolism; PVT: portal venous thrombosis; MVT: mesenteric venous thrombosis; AVT: axillary vein thrombosis; ND: not detected

Clinical data were obtained as described by Ding et al in Ref. 16.