

Hospital-associated venous thromboembolism in pediatrics: a systematic review and meta-analysis of risk factors and risk-assessment models

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Table S1. PubMed search strategy with text-words and mesh/explode strategies.

Search	Query
#1	"venous thromboembolism" OR VTE OR "deep vein thrombosis" OR "venous thrombosis" OR "intracranial thrombosis" OR (((("Venous Thromboembolism/drug therapy"[Mesh] OR "Venous Thromboembolism/etiology"[Mesh] OR "Venous Thromboembolism/prevention and control"[Mesh])) OR ("Venous Thrombosis/drug therapy"[Mesh:NoExp] OR "Venous Thrombosis/etiology"[Mesh:NoExp] OR "Venous Thrombosis/prevention and control"[Mesh:NoExp])) OR ("Pulmonary Embolism/drug therapy"[Mesh] OR "Pulmonary Embolism/etiology"[Mesh] OR "Pulmonary Embolism/prevention and control"[Mesh])) OR ("Intracranial Thrombosis/drug therapy"[Mesh:NoExp] OR "Intracranial Thrombosis/etiology"[Mesh:NoExp] OR "Intracranial Thrombosis/prevention and control"[Mesh:NoExp])
#2	"clinical prediction rule" OR predict*[tiab] OR score*[tiab] OR scoring [tiab] OR observ*[tiab] OR "risk assessment" OR "risk factor" OR "risk factors" OR "risk factor model" OR "prevention and control" OR "predictive value of tests"[mesh] OR "observer variation"[mesh] OR "Risk Assessment"[Mesh] OR "Risk Factors"[Mesh]
#3	Teenage* OR adolescent* OR neonatal OR neonate* OR infant* OR kids OR kid OR pediatric* OR child OR children OR ("Adolescent"[Mesh] OR "Child"[Mesh] OR "Infant"[Mesh] OR "Pediatrics"[Mesh])
#4	#1 AND #2 AND #3
#5	#1 AND #2 AND #3 Filters: English
#6	("venous thromboembolism"[ti]) OR (VTE [ti])OR ("deep vein thrombosis"[ti]) OR ("venous thrombosis" [ti])OR ("intracranial thrombosis"[ti]) OR (((("Venous Thromboembolism/drug therapy"[Majr] OR "Venous Thromboembolism/etiology"[Majr] OR "Venous Thromboembolism/prevention and control"[Majr])) OR ("Venous Thrombosis/drug therapy"[Majr:NoExp] OR "Venous Thrombosis/etiology"[Majr:NoExp] OR "Venous Thrombosis/prevention and control"[Majr:NoExp])) OR ("Pulmonary Embolism/drug therapy"[Majr] OR "Pulmonary Embolism/etiology"[Majr] OR "Pulmonary Embolism/prevention and control"[Majr])) OR ("Intracranial Thrombosis/drug therapy"[Majr:NoExp] OR "Intracranial Thrombosis/etiology"[Majr:NoExp] OR "Intracranial Thrombosis/prevention and control"[Majr:NoExp])
#7	#2 AND #3 AND #6
#8	#2 AND #3 AND #6 Filters: English
#9	Teenage*[ti] OR adolescent*[ti] OR neonatal [ti]OR neonate*[ti] OR infant*[ti] OR kids[ti] OR kid[ti] OR pediatric*[ti] OR child[ti] OR children[ti] OR ("Adolescent"[Majr] OR "Child"[Majr] OR "Infant"[Majr] OR "Pediatrics"[Majr])
#10	#2 AND #6 AND #9
#11	#2 AND #6 AND #9 Filters: English

Table S2. Articles included, study type, and patient numbers.

First Author	Year	Study Type	# of VTE Cases	# of Controls
Harris	2014	Case-Control	267	58,262
Stokes	2014	Case-Control	48	274
Van Arendonk	2013	Case-Control	1655	400,674
Santoro	2013	Case-Control	48	96
Gray	2012	Case-Control	60	333
Maruyama	2012	Case-Control	13	34
Askegard-Giesmann	2012	Case-Control	671	2915
Sharathkumar	2012	Case-Control	173	346
Branchford	2012	Case-Control	78	160
Hanson	2012	Case-Control	41	123
Faustino	2011	Case-Control	29	116
Higgerson	2011	Case-Control	49	6591
O'Brien	2011	Case-Control	826	134,206
Hanson	2010	Case-Control	9	27
Dubios	2007	Case-Control	20	914
Farinasso	2007	Case-Control	41	56
Cyr	2006	Case-Control	11	3280
Kosch	2004	Case-Control	59	118
Heller	2003	Case-Control	149	149
Heller	2000	Case-Control	65	100
Sabharwal	2014	Case Series	46	
Tala	2014	Retrospective Cohort	34	
Pergantou	2014	Retrospective Cohort	24	
Pillai	2013	Retrospective Cohort	26	
Pai	2013	Retrospective Cohort	285	
Gasior	2013	Retrospective Cohort	24	
Samkova	2012	Retrospective Cohort	18	
Ferri	2012	Cross-sectional	32	
Al-aridi	2011	Retrospective Cohort	9	
Wright	2011	Retrospective Cohort	92	
Tshiflaro	2011	Retrospective Cohort	18	
Vu	2008	Cross-sectional	6935	
Schiavetti	2008	Prospective Cohort	5	
Sandoval	2008	Retrospective Cohort	99	
Sirachainan	2007	Retrospective Cohort	24	
Hollmig	2007	Retrospective Cohort	11	
Meister	2008	Prospective Cohort	9	
Morag	2006	Retrospective Cohort	133	
Male	2005	Prospective Cohort	21	
Levy	2004	Retrospective Cohort	14	
Rask	2005	Retrospective Cohort	128	
Golomb	2004	Retrospective Cohort	32	
Kuhle	2004	Case series	72	
Barnes	2004	Retrospective Cohort	16	
van Ommen	2003	Registry	100	
Male	2003	Prospective Cohort	29	

Bonduel	2002	Prospective Cohort	110	
Vavilala	2002	Retrospective Cohort	45	
Ruud	2002	Prospective Cohort	41	
Carvalho	2001	Retrospective Cohort	31	
Kim	2001	Prospective Cohort	43	
Nowak-Gottl	2001	Prospective Cohort	237	
Bonduel	2000	Prospective Cohort	56	
Mauz-Korholz	1999	Retro Cohort	10	
Beck	1998	Prospective Cohort	12	
DeAngelis	1996	Prospective Cohort	3	
Rohrer	1996	Prospective Cohort	1	
Uderzo	1995	Retrospective Cohort	12	
Radecki	1994	Retrospective Cohort	13	
Barron	1992	Retrospective Cohort	25	