SHORT COMMUNICATION

Is D-dimer Test Cost Effective and Time Sensitive for Diagnosis of Venous Thromboembolism in Emergency Department?

Lucia M. White¹, Mayukh K. Sarkar^{1, 2}

¹Department of Pathology, The University of Texas Medical Branch, Galveston, Texas, USA ²Sysmex America Inc., Lincolnshire, Illinois, USA

SUMMARY

Background: A D-dimer assay can be used to reduce unnecessary imaging when ruling out venous thromboembolism (VTE) in the Emergency Department (ED), thus potentially reducing patient visit times and costs.

Methods: This was a cross-sectional retrospective data analysis of an academic medical center ED visits between January 1 and June 30, 2019. ED visit length and VTE diagnostic cost were compared for visits with and without a D-dimer assay. The total sample size was 106 adult ED patients who were not at high risk of VTE and, of these, 27 encounters included D-dimer testing and 79 encounters did not. Outcomes were measured using independent samples *t*-tests to compare ED visit length and VTE diagnostic cost for ED visits with and without D-dimer tests. *Results:* D-dimer testing had a moderate effect upon ED visit length, but it did not correspond to differences in ED visit length or VTE diagnostic cost.

Conclusions: D-dimer testing was not statistically significant in improving the ED visit length or the VTE diagnostic cost compared to imaging studies for suspected VTE cases in the ED. (Clin. Lab. 2023;69:1-5. DOI: 10.7754/Clin.Lab.2022.220304)

Correspondence: Lucia White Department of Pathology 301 University Boulevard Galveston, TX 77555-1140 USA Phone: +1 (832) 632-7010 Fax: +1 (832) 632-6877 Email: lumwhite@utmb.edu

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Supplementary Data

Table S1. VTE ICD 10 codes submitted to hospital for raw data report.

Acute embolism and thrombosis of unspecified deep veins of right lower extremity 182401 Acute embolism and thrombosis of unspecified deep veins of lower extremity, bilateral 182403 Acute embolism and thrombosis of right femoral vein 182404 Acute embolism and thrombosis of right femoral vein 182411 Acute embolism and thrombosis of right femoral vein 182412 Acute embolism and thrombosis of right flamoral vein 182413 Acute embolism and thrombosis of right flamoral vein 182424 Acute embolism and thrombosis of right flamoral vein 182425 Acute embolism and thrombosis of right political vein 182426 Acute embolism and thrombosis of right political vein 182427 Acute embolism and thrombosis of right political vein 182433 Acute embolism and thrombosis of right political vein 182444 Acute embolism and thrombosis of right political vein 182443 Acute embolism and thrombosis of otherspecified political vein 182444 Acute embolism and thrombosis of otherspecified political vein 182443 Acute embolism and thrombosis of otherspecified deep vein of right political vein 182444 Acute embolism and thrombosis of otherspecified deep vien of right political vein <t< th=""><th>Code</th><th>Diagnosis Description</th></t<>	Code	Diagnosis Description
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	I82B19	Acute embolism and thrombosis of unspecified subclavian vein
I82220 Acute embolism and thrombosis of inferior vena cava		Acute embolism and thrombosis of superior vena cava
	I82220	Acute embolism and thrombosis of inferior vena cava

Table S2. ED visit lengths and VTE diagnostic costs for UTM	IB ED visits with D-dimer testing.
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Record Number	D-dimer Visit (minutes)	D-dimer Cost (U.S. dollars)
23	226	2,281
26	292	72
29	453	72
42	446	3,127
65	257	72
74	450	2,292
118	244	2,292
120	395	72
136	258	1,920
146	298	72
166	245	810
184	314	72
186	423	2,281
225	382	1,920
238	466	72
292	352	3,030
304	566	72
306	347	2,653
349	193	810
496	455	433
501	200	72
535	388	2,281
540	678	1,920
576	351	72
583	364	1,920
669	344	72
935	227	72

Record Number	Imaging Visit (minutes)	Imaging Cost (U.S. dollars)
7	656	1,978
9	163	738
16	89	361
21	433	4,317
25	259	2,586
34	195	1,848
35	167	1,099
36	384	738
52	867	361
55	302	361
69	279	2,958
70	306	901
81	166	361
82	406	738
91	163	738
96	238	361
99	105	2,586
100	152	361
102	353	361
110	255	361
115	452	1,617
119	183	2,220
121	291	361
130	114	361
131	272	738
132	147	361
138	325	361
151	182	361
154	236	361
158	196	361
167	321	738
174	173	361
175	191	361
177	160	361
185	276	738
188	196	361
191	557	361
192	682	2,220
205	645	738
220	311	361
232	889	361
240	385	361
243	601	361
248	544	2,220
250	147	361

Record Number	Imaging Visit (minutes)	Imaging Cost (U.S. dollars)
252	123	361
258	304	361
262	198	361
264	634	2,220
269	40	738
299	144	361
316	239	738
368	205	361
383	196	738
384	164	361
387	313	361
389	279	361
409	274	361
416	202	1,848
422	229	1,848
434	196	738
446	304	2,586
457	184	361
480	399	738
485	283	361
515	231	361
528	373	3,311
530	370	1,848
556	236	1,458
563	479	1,848
569	176	361
599	185	361
603	143	361
665	315	361
724	316	361
824	668	738
886	366	4,903
903	321	738
922	322	738

Table S3. ED visit lengths and VTE diagnostic costs for UTMB ED visits with no D-dimer testing (continued).