


## Editorial

# The Most Highly Downloaded Publications from Seminars in Thrombosis and Hemostasis: A Data Analysis 10 Years in the Making

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Welcome to another editorial relating to our celebration of 50 years of publishing for *Seminars in Thrombosis and Hemostasis* (STH). As noted several times previously, 2024 marks the 50<sup>th</sup> birthday of STH, which first published in 1974.<sup>1</sup> A half century of publishing is a landmark worthy of celebration. We started the celebrations in 2022, when we published our first 50<sup>th</sup> year celebratory issue.<sup>2</sup> A second Celebratory issue was published in 2023,<sup>3</sup> and a third compilation was published as the first issue of 2024.<sup>4</sup> The current issue of the journal represents the fourth and final issue compilation to celebrate this achievement.<sup>5</sup> All issues have been rich with content of a historical nature related to the fields of thrombosis and hemostasis. To further celebrate, we also planned to publish additional tributes to the rich history of STH in each issue of STH to publish in 2024. For the first issue of 2024, we republished the first paper ever published in STH, on the molecular structure of fibrinogen,<sup>6,7</sup> together with an accompanying Commentary from Neerman-Arbez and Casini.<sup>8</sup> In the second issue of 2024, we republished the original description of the Platelet Function Analyzer (PFA)-100,<sup>9,10</sup> also representing the third most highly cited manuscript from STH of all time,<sup>11</sup> together with an accompanying Commentary from me.<sup>12</sup> In the third issue of 2024, we republished “a critical reappraisal of the bleeding time,”<sup>13,14</sup> also representing the second most highly cited manuscript from STH of all time,<sup>11</sup> together with an accompanying Commentary from Prof Anetta Undas.<sup>15</sup> In the fourth issue of 2024, we

republished another early manuscript on the PFA-100,<sup>16,17</sup> which was one with the founding editor in chief of STH, Eberhard F. Mammen, as lead author, and also representing the fourth most highly cited manuscript from STH of all time,<sup>11</sup> together with an accompanying Commentary from one of the original coauthors Robert Gosselin.<sup>18</sup> In the current issue of the journal, the fifth issue of 2024, we are republishing an early manuscript on platelets,<sup>19,20</sup> this one representing the sixth most highly cited manuscript from STH of all time,<sup>11</sup> as well as the second most downloaded paper in recent past (see current Editorial), together with an accompanying Commentary from one of our senior editors, Julie B. Larsen.<sup>21</sup>

In the remaining issues of STH for 2024, we would plan to republish other most highly cited publications from STH of all time, or most highly downloaded publications from STH from the past 10 years, as also accompanied by Commentaries from experts in the specific featured fields. Unfortunately, the publisher was unable to provide data for downloads across the entire 50-year STH timeline but was able to provide data from 2014. This current Editorial therefore provides information around the 50 most highly downloaded papers from STH from 2014 to 2023 inclusive (– **Table 1**), representing a 10-year span, and is accompanying the fourth issue of STH for 2024. We have selected the top 50 downloaded papers as a tribute to 50 years of STH publishing.

I would like to make a few comments on this listing (– **Table 1**). The most highly downloaded paper from STH

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**Issue Theme** Celebrating 50 Years of Seminars in Thrombosis and Hemostasis—Part IV; Guest Editor: Emmanuel J. Favaloro, PhD, FFSc (RCPA)

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**Table 1** The 50 most highly downloaded papers from Seminars in Thrombosis and Hemostasis from 2014 to 2023<sup>a</sup>

Rank	Citation	Notes
1	Kumar KR, Cowley MJ, Davis RL. Next-generation sequencing and emerging technologies. <i>Semin Thromb Hemost.</i> 2019;45(7):661–673	Review—MP 2020
2	Jurk K, Kehrel BE. Platelets: physiology and biochemistry. <i>Semin Thromb Hemost.</i> 2005;31(4):381–392	Review—MP 2009
3 <sup>b</sup>	Gremmel T, Frelinger AL 3rd, Michelson AD. Platelet physiology. <i>Semin Thromb Hemost.</i> 2016;42(3):191–204	Review—MP 2018
4	Lippi G, Franchini M, Favaloro EJ, Targher G. Moderate red wine consumption and cardiovascular disease risk: beyond the “French paradox.” <i>Semin Thromb Hemost.</i> 2010;36(1):59–70	Review—MP 2012
5	Moore GW. Recent guidelines and recommendations for laboratory detection of lupus anticoagulants. <i>Semin Thromb Hemost.</i> 2014;40(2):163–171	Review—MP 2017
6	Lippi G, Favaloro EJ, Meschi T, Mattiuzzi C, Borghi L, Cervellini G. E-cigarettes and cardiovascular risk: beyond science and mysticism. <i>Semin Thromb Hemost.</i> 2014;40(1):60–65	Review—MP 2016
7	Gosselin RC, Adcock D, Dorgalaleh A, et al. International Council for Standardization in Haematology recommendations for hemostasis critical values, tests, and reporting. <i>Semin Thromb Hemost.</i> 2020;46(4):398–409	Review—MP 2021
8	Mariani G, Bernardi F. Factor VII deficiency. <i>Semin Thromb Hemost.</i> 2009;35(4):400–406	Review—MP 2011
9	Tufano A, Guida A, Di Minno MN, Prisco D, Cerbone AM, Di Minno G. Prevention of venous thromboembolism in medical patients with thrombocytopenia or with platelet dysfunction: a review of the literature. <i>Semin Thromb Hemost.</i> 2011;37(3):267–274	Review—MP 2013
10	de Moerloose P, Casini A, Neerman-Arbez M. Congenital fibrinogen disorders: an update. <i>Semin Thromb Hemost.</i> 2013;39(6):585–95	Review—MP 2016
11	Thachil J, Srivastava A. SARS-2 coronavirus-associated hemostatic lung abnormality in COVID-19: is it pulmonary thrombosis or pulmonary embolism? <i>Semin Thromb Hemost.</i> 2020;46(7):777–780	Commentary
12	Rak J. Microparticles in cancer. <i>Semin Thromb Hemost.</i> 2010;36(8):888–906	Review—MP 2012
13	Favaloro EJ, Lippi G. Recommendations for minimal laboratory testing panels in patients with COVID-19: potential for prognostic monitoring. <i>Semin Thromb Hemost.</i> 2020;46(3):379–382	Commentary
14	Gosselin RC, Marlar RA. Preanalytical variables in coagulation testing: setting the stage for accurate results. <i>Semin Thromb Hemost.</i> 2019;45(5):433–448	Review—MP 2021
15 <sup>c</sup>	George JN, Charania RS. Evaluation of patients with microangiopathic hemolytic anemia and thrombocytopenia. <i>Semin Thromb Hemost.</i> 2013;39(2):153–60	Review—MP 2015
16	Thomas J, Kostousov V, Teruya J. Bleeding and thrombotic complications in the use of extracorporeal membrane oxygenation. <i>Semin Thromb Hemost.</i> 2018;44(1):20–29	Review—MP 2021
17	Schreiber K, Breen K, Cohen H, et al. Hydroxychloroquine to improve pregnancy outcome in women with antiphospholipid antibodies (HYPATIA) protocol: a multinational randomized controlled trial of hydroxychloroquine versus placebo in addition to standard treatment in pregnant women with antiphospholipid syndrome or antibodies. <i>Semin Thromb Hemost.</i> 2017;43(6):562–571	Review—MP 2020
18	Favaloro EJ, Lippi G. Laboratory testing in the era of direct or non-vitamin K antagonist oral anticoagulants: a practical guide to measuring their activity and avoiding diagnostic errors. <i>Semin Thromb Hemost.</i> 2015;41(2):208–227	Review—MP 2017
19	Boonyawat K, Crowther MA. Venous thromboembolism prophylaxis in critically ill patients. <i>Semin Thromb Hemost.</i> 2015;41(1):68–74	Review—MP 2017
20	Bates SM. D-dimer assays in diagnosis and management of thrombotic and bleeding disorders. <i>Semin Thromb Hemost.</i> 2012;38(7):673–682	Review—MP 2016
21	Kell DB, Pretorius E. To what extent are the terminal stages of sepsis, septic shock, systemic inflammatory response syndrome, and multiple organ dysfunction syndrome actually driven by a prion/amyloid form of fibrin? <i>Semin Thromb Hemost.</i> 2018;44(3):224–238	Review—MP 2019
23	Kenet G, Aronis S, Berkun Y, et al. Impact of persistent antiphospholipid antibodies on risk of incident symptomatic thromboembolism in children: a systematic review and meta-analysis. <i>Semin Thromb Hemost.</i> 2011;37(7):802–809	Review—MP 2014

(Continued)

**Table 1** (Continued)

Rank	Citation	Notes
22	Iba T, Levi M, Levy JH. Sepsis-induced coagulopathy and disseminated intravascular coagulation. <i>Semin Thromb Hemost.</i> 2020;46(1):89–95	Review—MP 2021
24	Althaus K, Greinacher A. MYH9-related platelet disorders. <i>Semin Thromb Hemost.</i> 2009;35(2):189–203	Review
25	Di Minno A, Ambrosino P, Calcaterra I, Di Minno MND. COVID-19 and venous thromboembolism: a meta-analysis of literature studies. <i>Semin Thromb Hemost.</i> 2020;46(7):763–771	Review—MP 2022
26 <sup>d</sup>	Favaloro EJ. Clinical utility of the PFA-100. <i>Semin Thromb Hemost.</i> 2008;34(8):709–733	Review
27	Cuker A. Clinical and laboratory diagnosis of heparin-induced thrombocytopenia: an integrated approach. <i>Semin Thromb Hemost.</i> 2014;40(1):106–114	Review—MP 2018 (YIA 2010)
28	Fava C, Montagnana M, Favaloro EJ, Guidi GC, Lippi G. Obstructive sleep apnea syndrome and cardiovascular diseases. <i>Semin Thromb Hemost.</i> 2011;37(3):280–297	Review—MP 2013
29	Allaoui A, Khawaja AA, Badad O, et al. Platelet function in viral immunity and SARS-CoV-2 infection. <i>Semin Thromb Hemost.</i> 2021;47(4):419–426	Review—MP 2022
30	Kitchen S, Tiefenbacher S, Gosselin R. Factor activity assays for monitoring extended half-life FVIII and factor IX replacement therapies. <i>Semin Thromb Hemost.</i> 2017;43(3):331–337	Review—MP 2019
31	Page MJ, Pretorius E. A champion of host defense: a generic large-scale cause for platelet dysfunction and depletion in infection. <i>Semin Thromb Hemost.</i> 2020;46(3):302–319	Review
32	Warkentin TE. Heparin-induced thrombocytopenia in critically ill patients. <i>Semin Thromb Hemost.</i> 2015;41(1):49–60	Review
33	Demers M, Wagner DD. NETosis: a new factor in tumor progression and cancer-associated thrombosis. <i>Semin Thromb Hemost.</i> 2014;40(3):277–283	Review
34	Laridan E, Martinod K, De Meyer SF. Neutrophil extracellular traps in arterial and venous thrombosis. <i>Semin Thromb Hemost.</i> 2019;45(1):86–93	Review—YIA 2017
35	Al-Samkari H, Kuter DJ. Immune thrombocytopenia in adults: modern approaches to diagnosis and treatment. <i>Semin Thromb Hemost.</i> 2020;46(3):275–288	Review—YIA 2020
36	Chapman K, Seldon M, Richards R. Thrombotic microangiopathies, thrombotic thrombocytopenic purpura, and ADAMTS-13. <i>Semin Thromb Hemost.</i> 2012;38(1):47–54	Review—MP 2014 (YIA 2012)
37	Sethi S, Fervenza FC. Pathology of renal diseases associated with dysfunction of the alternative pathway of complement: C3 glomerulopathy and atypical hemolytic uremic syndrome (aHUS). <i>Semin Thromb Hemost.</i> 2014;40(4):416–421	Review—MP 2016
39	Mallett SV. Clinical utility of viscoelastic tests of coagulation (TEG/ROTEM) in patients with liver disease and during liver transplantation. <i>Semin Thromb Hemost.</i> 2015;41(5):527–537	Review MP 2018
38 <sup>e</sup>	Raskob GE, Angchaisuksiri P, Blanco AN, et al.; ISTH Steering Committee for World Thrombosis Day. Thrombosis: a major contributor to global disease burden. <i>Semin Thromb Hemost.</i> 2014;40(7):724–735	Review
42	Klil-Drori AJ, Tagalakis V. Direct oral anticoagulants in end-stage renal disease. <i>Semin Thromb Hemost.</i> 2018;44(4):353–363	Review—MP 2019 (YIA 2016)
41	Cuker A, Prak ET, Cines DB. Can immune thrombocytopenia be cured with medical therapy? <i>Semin Thromb Hemost.</i> 2015;41(4):395–404	Review—MP 2018 (YIA 2010)
40	Lippi G, Favaloro EJ, Sanchis-Gomar F. Sudden cardiac and noncardiac death in sports: epidemiology, causes, pathogenesis, and prevention. <i>Semin Thromb Hemost.</i> 2018;44(8):780–786	Review—MP 2020
43	Scharf RE. Drugs that affect platelet function. <i>Semin Thromb Hemost.</i> 2012;38(8):865–883	Review
44	Tapson VF. Thrombolytic therapy for acute pulmonary embolism. <i>Semin Thromb Hemost.</i> 2013;39(4):452–458	Review—MP 2015
45	Boccardo P, Remuzzi G, Galbusera M. Platelet dysfunction in renal failure. <i>Semin Thromb Hemost.</i> 2004;30(5):579–589	Review
46	Levi M, Poll T. Coagulation in patients with severe sepsis. <i>Semin Thromb Hemost.</i> 2015;41(1):9–15	Review—MP 2017
47	Baskurt OK, Meiselman HJ. Blood rheology and hemodynamics. <i>Semin Thromb Hemost.</i> 2003;29(5):435–450	Review

**Table 1** (Continued)

Rank	Citation	Notes
48	Lippi G, Salvagno GL, Gelati M, Poli G, Giavarina D, Favalaro EJ. Analytical assessment of the new roche cobas t 711 fully automated coagulation analyzer. <i>Semin Thromb Hemost.</i> 2019;45(3):308–314	Original study
49	Favaloro EJ, Pasalic L, Curnow J. Type 2M and type 2A von Willebrand disease: similar but different. <i>Semin Thromb Hemost.</i> 2016;42(5):483–497	Review
50	Levi M, Thachil J. Coronavirus disease 2019 coagulopathy: disseminated intravascular coagulation and thrombotic microangiopathy-either, neither, or both. <i>Semin Thromb Hemost.</i> 2020;46(7):781–784	Commentary

Abbreviations: MP, most popular; YIA, Young Investigator Award.

<sup>a</sup>From 2014 to the date of data compilation (August 11, 2023). Data from publisher of STH (Thieme). List excludes issue Prefaces and Editorials, but includes Reviews, Original Studies, and Commentaries.

<sup>b</sup>Commissioned by current Editor in Chief to provide an update to the historical platelet physiology review from 2005,<sup>19</sup> listed second on this list.

<sup>c</sup>Prof George has subsequently written an historical article on thrombotic thrombocytopenic purpura (TTP) for our 50<sup>th</sup> year celebration.<sup>42</sup>

<sup>d</sup>This review was written by the current Editor in Chief as a Tribute to the Founding Editor in Chief following his passing in 2008.<sup>43,44</sup>

<sup>e</sup>This review was copublished in several Thrombosis and Hemostasis journals to mark the inaugural “World Thrombosis Day” in 2014.<sup>45–49</sup>

is on the topic of next-generation sequencing, from the authorship team of Kumar, Cowley, and Davis.<sup>22</sup> This paper is almost a permanent fixture in the “most read” list in the online journal list of top 10.<sup>23</sup> The paper will be republished, with an accompanying Commentary from the original authors later this year. The second most popular (MP) paper is from the writing team of Jurk and Kehrel, on the physiology and biochemistry of platelets.<sup>19,20</sup> This is also a perennial favorite of STH readers, and always on the top list of most downloaded papers in every year of analysis, as well as being an almost permanent fixture in the “most read” list in the online journal list of top 10.<sup>23</sup> Indeed, as noted above, we have republished this paper in the current issue of STH,<sup>20</sup> with an accompanying Commentary.<sup>21</sup> The perennial popularity of this 2005 paper actually led me to commission an update for the journal, which was aptly written by Gremmel, Frelinger and Michelson,<sup>24</sup> and which also regularly appears on the online journal list of top 10,<sup>23</sup> as well as being listed as the 3<sup>rd</sup> most popular paper in the past 10 years (►Table 1). And, yes, the three of these highly downloaded papers were still on the online listing<sup>23</sup> at time of writing this editorial. The updated review on platelet physiology will also be republished in a subsequent issue of 2024, again with an accompanying Commentary from the original authors.

It is perhaps not surprising that the list mostly contains prior “MP” papers from our yearly assessments (e.g.,<sup>25–29</sup>). The lead paper on ►Table 1 won the MP award for 2020,<sup>25</sup> the second paper won the MP award from the inaugural awards in 2009,<sup>30</sup> and the third paper won the MP award from 2018,<sup>31</sup> and so on. It should also be noted here that papers that are free to download from the publisher’s Web site will have an advantage for downloads over papers that are only available to subscription users. Furthermore, after winning an MP award, these papers become free to download to all users of the online platform, including nonsubscription users. Indeed, if a paper is on the list (►Table 1) and not a prior MP awardee, then this should be taken as reflecting an especially deserving special mention, perhaps indicating it

just missed out on an MP award or was ineligible. For example, the Table also includes several Commentaries, especially as related to COVID-19, with these not being eligible for the MP award (only full papers, either reviews or original studies qualify).<sup>25–29</sup>

Also of interest is that some of the papers derived from STH issues published to celebrate the 40<sup>th</sup> year celebrations,<sup>32,33</sup> missed out making the top 50 list in ►Table 1 but were in the top 100 list.<sup>34–36</sup> Many of the papers listed in ►Table 1 also appear in our most cited listings (e.g.,<sup>37–41</sup>), including the recent Editorial around the most cited papers from STH of all time.<sup>11</sup> Finally, several papers were also from past winners of the Eberhard F. Mammen Young Investigator Award and so represent multiple accolades for the authors of these papers.

Of course, not all the papers appearing on this top 50 download papers list from 2014 to 2023 represent newer material, for example also including several papers from the most highly cited papers from STH of all time.<sup>11</sup> We sincerely thank all the authors appearing on this list; you have truly captured the attention of the STH readership. As always, we look forward to continuing to publish material of interest to our readership for the next 50 years!

**Conflict of Interest**

None declared.

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