

# 별첨 2

## 배제문헌

### 배제문헌 목록

#### 〈배제사유〉

1. CLIA(CIA) 검사를 수행하지 않은 연구
2. 적절한 의료결과가 하나 이상 보고되지 않은 연구
3. 동물실험 및 전 임상시험 연구
4. 원저가 아닌 연구
5. 사례보고(Case report) 인 연구
6. 회색문헌(초록 및 학회 발표 등)
7. 한국어 및 영어로 출판되지 않은 연구
8. 기타사유

#### 배제문헌 목록

연번	제1저자	연도	제목	사유
1	Warkentin	2020	Combination of two complementary automated rapid assays for diagnosis of heparin-induced thrombocytopenia (HIT)	1
2	Tardy	2020	Detection of platelet-activating antibodies associated with heparin-induced thrombocytopenia	4
3	Holaubek	2020	Injection Site Erythema in a Patient on Therapeutic Anticoagulation with Low Molecular weight Heparin after Mechanical Aortic Valve Replacement: A Rare Presentation of Heparin- And Protamine-Induced Thrombocytopenia	5
4	Jansen	2020	Experimental thrombocytopenia does not affect acute kidney injury 24 hours after renal ischemia reperfusion in mice	3
5	Ullah	2020	Heparin induced thrombocytopenia may recover with intermittent Heparin in dialysis patients	6
6	Dulicek	2020	Heparin-induced thrombocytopenia treated with fondaparinux: single center experience	1
7	Bui	2020	Physicochemical Characteristics of Platelet Factor 4 under Various Conditions are Relevant for Heparin-Induced Thrombocytopenia Testing	3
8	Preston	2014	Plasma exchange on venovenous extracorporeal membrane oxygenation with bivalirudin anticoagulation	1
9	Carll	2019	A laboratory investigation in response to clinical concern regarding heparin-PF4 ELISA accuracy	6
10	DeLuna	2019	Hit: Anti-platelet factor 4-heparin (pf4-h) assay validation and comparison study	6
11	Gangahar	2019	Reduction in false-positive PF4/heparin antibody testing following implementation of a latex immunoturbidimetric assay	6

연번	제1저자	연도	제목	사유
12	Pierre	2019	Implementation of a fully automated latex immunoturbidimetric assay for the diagnosis of heparin-induced thrombocytopenia in a high-volume university hospital laboratory	6
13	Brodard	2020	Accuracy of heparin-induced platelet aggregation test for the diagnosis of heparin-induced thrombocytopenia	1
14	Selleng	2014	Prevalence and clinical implications of anti-PF4/heparin antibodies in intensive care patients: a prospective observational study	1
15	Tan	2012	Evaluating Heparin-Induced Thrombocytopenia: The Old and the New	1
16	Matsuo	2012	Clinical evaluation of acute systemic reaction and detection of IgG antibodies against PF4/heparin complexes in hemodialysis patients	1
17	Althaus	2020	Heparin-induced thrombocytopenia: Diagnostic challenges in intensive care patients especially with extracorporeal circulation	1
18	Nguyen	2020	Characterization of the interaction between platelet factor 4 and homogeneous synthetic low molecular weight heparins	1
19	Malicev	2020	The use of flow cytometry in the diagnosis of heparin-induced thrombocytopenia (HIT)	4
21	Sadik	2015	Impact of Platelet Functional Assays on the Cost of Treating Suspected Heparin-Induced Thrombocytopenia	1
22	Bayat	2015	Evaluation of clinical and laboratory data for early diagnosis of heparin-induced thrombocytopenia	4
23	Dore	2014	Interrater agreement for two systems used to determine the probability of heparin-induced thrombocytopenia	1
24	Dee	2014	Use of argatroban and catheter-directed thrombolysis with alteplase in an oncology patient with heparin-induced thrombocytopenia with thrombosis	1
25	Ashby	2019	Catastrophic heparin induced thrombocytopenia resulting in cardiac arrest	6
26	Warkentin	2020	Serotonin-release assay-negative heparin-induced thrombocytopenia	1
27	Farooqui	2019	Comparative studies on the interaction of unfractionated heparin and sulodexide with functional anti-heparin platelet factor 4 antibodies	6
28	Zhu	2019	Antibody cloning identifies pathogenic and non-pathogenic antibodies in heparin-induced thrombocytopenia and defines the molecular signatures that differentiate the two types of antibodies	6
29	Padmanabhan	2019	New monoclonal antibodies reveal distinct specificities for platelet factor 4 bound to heparin Vs	6
30	Huynh	2019	Pathogenic antibodies in heparin-induced thrombocytopenia specifically target an immunodominant region on platelet factor 4	6
31	Kra	2019	Utility and pitfalls of stepwise laboratory testing for heparin induced thrombocytopenia: Retrospective review from an academic medical center	6
32	Ball	2019	Effective implementation of a structured protocol for facilitation of the judicious use of antibody test for diagnosis of heparin induced thrombocytopenia	6
33	Polisetty	2019	Is heparin induced thrombocytopenia expert probability (HEP) scoring system superior to 4T'S scoring in the diagnosis of heparin induced thrombocytopenia? A prospective observational study from a tertiary care cardiac centre in India	6
34	Guner	2019	Author's reply	4
35	Huynh	2019	Characterization of platelet factor 4 amino acids that bind pathogenic antibodies in heparin-induced thrombocytopenia	1
36	Korva	2019	Characterization of biomarker levels in crimean-congo hemorrhagic fever and hantavirus fever with renal syndrome	1
37	Warkentin	2019	Laboratory diagnosis of heparin-induced thrombocytopenia	4
38	Althaus	2019	Evaluation of a flow cytometer-based functional assay using platelet-rich plasma in the diagnosis of heparin-induced thrombocytopenia	1
39	Bruck	2019	Intrahepatic Hematoma and Pulmonary Embolism in a Young Woman with Oral Contraceptives Complicated by Type II Heparin Induced Thrombocytopenia Requiring ECMO-Therapy: A Case Report	1
40	Perdomo	2019	Neutrophil activation and NETosis are the major drivers of thrombosis in heparin-induced thrombocytopenia	1
41	Okura	2019	Critical role of platelets in the production of thymus and activation-regulated chemokine in children: A case series study	4

연번	제1저자	연도	제목	사유
42	Seider	2019	The Use of Cangrelor and Heparin for Anticoagulation in a Patient Requiring Pulmonary Thromboendarterectomy Surgery with Suspected Heparin-Induced Thrombocytopenia	1
43	Irani	2019	Use of intravenous immunoglobulin G to treat spontaneous heparin-induced thrombocytopenia	1
44	Liederman	2019	Heparin-induced thrombocytopenia: An international assessment of the quality of laboratory testing	4
45	Younis	2019	Comparison of a clinical-laboratory algorithm 4t and heparin-induced thrombocytopenia expert probability scores in the diagnosis of heparin-induced thrombocytopenia in the critical care setting	1
46	Taguchi	2019	Simultaneous liver-kidney transplantation in patient with a history of heparin-induced thrombocytopenia: A case report and literature review	4
47	Pollak	2019	Heparin-induced thrombocytopenia complicating extracorporeal membrane oxygenation support: Review of the literature and alternative anticoagulants	4
48	Samos	2019	Apixaban: a novel agent to treat heparin induced thrombocytopenia and to prevent embolism in patient with atrial fibrillation after multiple valve replacement? Journal of Thrombosis and Thrombolysis	1
49	Krauel	2019	Fibronectin modulates formation of PF4/heparin complexes and is a potential factor for reducing risk of developing HIT	1
50	Jin	2019	Implementation of Whole-Blood Impedance Aggregometry for Heparin-Induced Thrombocytopenia Functional Assay and Case Discussion	1
51	Cipok	2019	Pathogenic heparin-induced thrombocytopenia and thrombosis (HIT) antibodies determined by rapid functional flow cytometry	1
52	Bashover	2019	Use of a whole-cell ELISA to detect additional antibodies in setting of suspected heparin-induced thrombocytopenia	1
53	Refaai	2019	Evaluation of a rapid and automated heparin-induced thrombocytopenia immunoassay	1
54	Scala	2019	Cardiac Surgery Successfully Managed With Cangrelor in a Patient With Persistent Anti-PF4/Heparin Antibodies 8 Years After Heparin-Induced Thrombocytopenia	5
55	Erdoes	2019	Anticoagulation in Patients With Heparin-Induced Thrombocytopenia Antibodies: New Armamentarium for an Individually Tailored Approach in Cardiac Surgery	4
56	Shmookler	2019	Inpatient management strategies in a severe case of heparin-induced thrombocytopenia	1
57	Bakchoul	2019	Autoimmune Heparin-Induced Thrombocytopenia after Transcatheter Aortic Valve Implantation: Successful Treatment with Adjunct High-Dose Intravenous Immunoglobulin	4
58	Vayne	2019	Frequency and Clinical Impact of Platelet Factor 4-Specific Antibodies in Patients Undergoing Extracorporeal Membrane Oxygenation	1
59	Joseph	2019	Diagnosis and management of heparin-induced thrombocytopenia: a consensus statement from the Thrombosis and Haemostasis Society of Australia and New Zealand HIT Writing Group	4
60	Nguyen	2019	Reactivity of platelet-activating and nonplatelet-activating anti-PF4/heparin antibodies in enzyme immunosorbent assays under different conditions	1
61	Farley	2019	Prevalence and Overtesting of True Heparin-Induced Thrombocytopenia in a 591-Bed Tertiary Care Teaching Hospital	4
62	Warkentin	2019	Timeline of heparin-induced thrombocytopenia seroconversion in serial plasma samples tested using an automated latex immunoturbidimetric assay	1
63	DePont	2019	Heparin-Induced Thrombocytopenia: Finding the Needle in the Haystack*	4
64	Malalur	2019	Limited impact of clinician education on reducing inappropriate PF4 testing for heparin-induced thrombocytopenia	1
65	Wang	2019	A multi-center clinical observation of recombinant human thrombopoietin for the treatment of sepsis-associated thrombocytopenia	1
66	Kizlik-Masson	2019	Cleavage of anti-PF4/heparin IgG by a bacterial protease and potential benefit in heparin-induced thrombocytopenia	3
67	Schaefer	2019	Heparin-induced thrombocytopenia diagnostic testing after adult cardiac surgery: A single-centre experience and development	1
68	Compton	2019	PIFA plus P4 assay for screening of heparin-induced thrombocytopenia	4
69	Eekels	2019	An international external quality assessment for laboratory diagnosis of heparin-induced thrombocytopenia	1

연번	제1저자	연도	제목	사유
70	Nawas	2019	A protean protein	4
71	Abdillah	2019	Heparin-Induced Thrombocytopenia in Infants after Heart Surgery	4
72	Li	2019	Prospective evaluation of heparin-induced thrombocytopenia expert probability and 4T scores in Chinese patients with suspected heparin-induced thrombocytopenia	1
73	Condon	2019	Pharmacist involvement in clinical assessment and laboratory testing for heparin-induced thrombocytopenia	1
74	Scala	2019	A rare case of persistent anti-PF4/heparin antibodies successfully managed with cangrelor in a patient undergoing cardiac surgery	6
75	Li	2019	Diagnostic value of two immunoassays for detecting heparin/PF4 complex antibodies in heparin-induced thrombocytopenia	7
76	Elgohary	2019	The significant application of the 4T criteria in assessing the proper need for a HIT study assay in a Saudi tertiary care hospital	6
77	Elgohary	2019	A service improvement re-audit: The role of the 4t criteria in assessing the need for a hit assay in a tertiary hospital setting	6
78	Tchen	2019	Utilization of anticoagulation in the treatment of hit and appropriateness of diagnostic testing	6
79	Richert	2019	Heparin-Induced Thrombocytopenia in Medical Icu: Hitting Back at over-Testing	6
80	Webber	2019	Plasmapheresis reduces HIT/PF4 antibodies prior to intraoperative heparin reexposure: A retrospective case series of patients with heparin-induced thrombocytopenia	6
81	Oczynok	2019	Hit you while you're down: Early stent thrombosis due to heparin-induced thrombocytopenia	6
82	Brodard	2019	Feasibility of a new rapid functional assay for the diagnosis of heparin-induced thrombocytopenia: A standardized flow cytometry assay	6
83	Marchetti	2019	Prospective validation of a rapid and accurate diagnostic algorithm for heparin-induced thrombocytopenia	6
84	Butt	2019	Successful Heartmate 3 LVAD Implantation in a Patient with Heparin Induced Thrombocytopenia Using Pre-Implantation Plasmapheresis and Intraoperative Continuous Prostacyclin	6
85	Duarte	2019	Heterogeneity in neutrophil response to platelet factor 4/heparin immune complexes in heparin-induced thrombocytopenia	6
86	DeSimone	2019	Impact of automated HIT antibody testing on diagnosis of heparin induced thrombocytopenia	6
87	Aidery	2019	Autoimmune HLT—successful treatment with ivIgG and DOAC and laboratory testing of ivIgG therapy in HIPA—test	6
88	BaumannKreuziger	2019	Implementation of electronic 4T score improves platelet factor 4 (PF4) elisa utilization	6
89	Rigano	2019	Evaluation of the automated Hemosil Acustar Hit IgG chemiluminescent immunoassay for the diagnosis of heparin-induced thrombocytopenia	6
90	Tan	2019	Rivaroxaban for heparin-induced thrombocytopenia—safety and efficacy updates from a case series	6
91	Fan	2019	Serological investigation of suspected heparin induced thrombocytopenia in China: 69 hospitals	6
92	Robetorye	2019	Hit diagnosis workflow experience at the Mayo Clinic in Arizona: PF4 elisa assay optical density threshold for clinical guidance while a waiting for confirmatory testing	6
93	Li	2019	Performance characteristics of latex immunoturbidimetric assay and particle immunofiltration assay for the diagnosis of immune heparin-induced thrombocytopenia	6
94	Li	2019	Prospective evaluation of the Hep score and 4Ts score in patients with suspected heparin-induced thrombocytopenia from China	6
95	Duboscq	2019	Exclusion of heparin-induced thrombocytopenia by a rapid lateral flow immunoassay	6
96	Lee	2019	FCγRIIIa polymorphisms and allele-specific haplotypes in heparin-induced thrombocytopenia (HIT)	6
97	Brodard	2019	Feasibility of a new rapid functional assay for the diagnosis of heparin-induced thrombocytopenia: A standardized flow cytometry assay	6

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98	Marchetti	2019	Prospective validation of a rapid and accurate diagnostic algorithm for heparin-induced thrombocytopenia	6
99	CoutinhoCruz	2019	A delicate balance	6
100	Boni	2019	Heparin-induced thrombocytopenia (HIT): A possible cause of venous-thromboembolism (VTE) in active systemic vasculitis	6
101	Wong	2019	Monitoring heparin-induced thrombocytopenia antibody reactivity in a heart failure patient undergoing plasma exchange and IVIg prior to heart transplantation	6
102	Morrow-Sutton	2019	Therapeutic plasma exchange in left ventricular assist device patient with heparin induced thrombocytopenia	6
103	Benito	2019	Heparin-induced thrombocytopenia (HIT): A case report	6
104	Prechel	2018	Profiling Heparin-Induced Thrombocytopenia (HIT) Antibodies in Hospitalized Patients With and Without Diabetes	1
106	East	2018	Heparin-Induced Thrombocytopenia in the Critically Ill Patient	4
107	Ramu	2018	Plasma exchange to remove heparin-induced thrombocytopenia antibodies and the use of heparin during cardiopulmonary bypass in critically ill cardiac patients	4
108	Warkentin	2018	Platelet-Activating Antibodies Are Detectable at the Earliest Onset of Heparin-Induced Thrombocytopenia With Implications for the Operating Characteristics of the Serotonin-Release Assay	1
109	Fenelus	2018	HITTING the diagnosis: testing for heparin-induced thrombocytopenia in cancer patients	1
110	Amiral	2018	An update on evidence based diagnostic and confirmatory testing strategies for heparin induced thrombocytopenia using combined immunological and functional assays	4
111	Khandelwal	2018	Polyreactive IgM initiates complement activation by PF4/heparin complexes through the classical pathway	4
112	Warkentin	2018	High sensitivity and specificity of an automated IgG-specific chemiluminescence immunoassay for diagnosis of HIT	4
113	Khandelwal	2018	Novel Immunoassay for Complement Activation by PF4/Heparin Complexes	4
114	Liu	2018	Significant association of anti-platelet factor 4/heparin antibody with cardiovascular disease in hemodialysis patients: a longitudinal 7-year study	1
115	Maharaj	2018	Anti-PF4/heparin antibodies are increased in hospitalized patients with bacterial sepsis	4
116	Patel	2018	Heparin-induced thrombocytopenia in a cardiac surgery patient with early and persistent thrombocytopenia and initial negative immunological and functional assays	4
117	Park	2018	Intravenous immunoglobulin as an adjunct therapy in persisting heparin-induced thrombocytopenia	4
118	Chen	2018	Absolute immature platelet counts in the setting of suspected heparin-induced thrombocytopenia may predict anti-PF4-heparin immunoassay testing results	1
119	Marler	2018	The effect of obesity on the rate of heparin-induced thrombocytopenia	1
120	Mattioli	2018	Heparin-Induced Thrombocytopenia in Cardiac Surgery Patients	4
121	Cetinarlan	2018	Heparin-induced thrombocytopenia after MitraClip: A case report	5
122	Zheng	2018	The Clinical Utility of the Heparin Neutralization Assay in the Diagnosis of Heparin-Induced Thrombocytopenia	1
123	Favaloro	2018	Laboratory tests for identification or exclusion of heparin induced thrombocytopenia: HIT or miss? American Journal of Hematology	4
124	Lim	2018	Initial and long term impact of a multi-disciplinary task force in the diagnosis and management of heparin-induced thrombocytopenia	4
125	Huynh	2018	Development of a high-yield expression and purification system for platelet factor 4	4
127	Lee	2018	Abciximab/Heparin Therapy for Left Ventricular Assist Device Implantation in Patients With Heparin-Induced Thrombocytopenia	1
128	Fathi	2018	Heparin-induced thrombocytopenia (HIT): Identification and treatment pathways	4
129	Greinacher	2018	Heparin-induced thrombocytopenia	1
130	Vadi	2018	The Fondaparinux paradox: Fondaparinux-related heparin-induced thrombocytopenia	5

연번	제1저자	연도	제목	사유
131	Fulda	2018	Retrospective analysis of seven years of heparin induced thrombocytopenia (HIT): A one center experience	6
132	Shikdar	2018	Recurrent venous thrombosis due to persistent presence of heparin antibody in a patient with heparin-induced thrombocytopenia and may-thurner syndrome	6
133	Brodard	2018	Accuracy of heparin-induced platelet aggregometry (PAT) for the diagnosis of heparin-induced thrombocytopenia	6
134	Gomez	2018	Utility of D-dimers in the diagnostic work up of heparin-induced thrombocytopenia (HIT)	6
135	Marchetti	2018	Prospective validation of a rapid and accurate diagnostic algorithm for heparin-induced thrombocytopenia	6
136	Jindal	2018	The Appropriateness of Testing PF4/Heparin antibody in patients suspected of heparin-induced thrombocytopenia	6
137	Wolfe	2018	Risk of subsequent thrombosis in patients with isolated heparin-induced thrombocytopenia	6
138	Myint	2018	Appropriateness of heparin-induced thrombocytopenia (HIT) testing and the reliability of 4-Ts scoring in critically ill patients	6
139	Stapor	2018	Platelet trends are not predictive of heparin induced thrombocytopenia in patients on extra corporeal membrane oxygenation	6
140	Arachchillage	2018	Incidence of thrombocytopenia and heparin induced thrombocytopenia in patients receiving extracorporeal membrane oxygenation (ECMO) compared to cardiopulmonary bypass and the limited sensitivity of pre-test probability score	6
141	Zia-ur-RehmanShah	2018	Are we doing too many hit tests III? Blood	6
142	Maharaj	2018	Anti-PF4/heparin antibody levels in bacteremia fungemia and sepsis	6
143	Deutsch	2018	Pathogenic heparin induced thrombocytopenia and thrombosis (HIT) antibodies determined by simple rapid functional flow cytometry	6
144	Vayne	2018	Frequency of anti-PF4/heparin antibodies in patients treated with extra-corporeal membrane oxygenation and detection by sensitized serotonin release assay of pathogenic heparin-induced thrombocytopenia antibodies	6
145	Hidiatov	2018	Heparin-independent platelet activation by sera from patients with assist heart devices	6
146	Iliopoulou	2018	Evaluation of hit syndrome with an automated immunoassay in correlation with the 4T score in cardiovascular patients	6
147	Johnson	2018	Serotonin release assay (SRA)-negative hit a newly recognized entity: Implications for diagnosis and management	6
148	Gori	2018	Evaluation of automated immunoassays in the diagnosis of heparin induced thrombocytopenia: A large experience of the florence atherothrombotic diseases center	6
149	Beretta	2018	Stenosis of the renal artery in a patient with autoimmune heparin-induced thrombocytopenia: Successful multidisciplinary angioplasty with stenting	6
150	Cosmi	2018	Heparin induced thrombocytopenia: 10 years of experience in a university and tertiary care hospital	6
151	Hulko	2018	Comparison of platelet activation of electron-beam and steam sterilized membranes	6
152	Parker	2018	Effect of therapeutic levels of heparin on the HIT-PF4 elisa antibody assay	6
153	Nazy	2018	Improving laboratory testing for heparin induced thrombocytopenia	6
154	Samuel	2018	Pharmacoeconomic analysis of direct thrombin inhibitors using polyspecific elisa antibodies in suspected heparin induced thrombocytopenia	6
155	Greinacher	2018	Anti-PF4/Polyanion antibody induced autoimmune HIT: A new mechanism of autoimmunity	6
156	JayakodyArachchillage	2018	Limits to sensitivity of 4T score for heparin induced thrombocytopenia	6
157	Byrne	2018	Utility of PF4/IgG elisa optical density values as an indicator of positivity of the heparin induced platelet activation test in laboratory testing for heparin induced thrombocytopenia (HIT)	6
158	Soufla	2018	Urgent laboratory investigation of hit syndrome with an automated immunoassay in cardiovascular patients	6

연번	제1저자	연도	제목	사유
159	Zheng	2018	A novel diagnostic algorithm for heparin-induced thrombocytopenia	6
160	Hamarshi	2018	Performance of igg specific anti-pf4/heparin in hit diagnosis in critical care settings	6
161	Hamarshi	2018	Descriptive analysis of clinical and laboratory scores for hit in critical care settings	6
162	Hamarshi	2018	External validation of the hit expert probability (hep) score in critically ill patients	6
163	Hamarshi	2018	Clinical-laboratory algorithm for diagnosis of hit in critical care settings	6
164	Tomicic	2018	Laboratory investigation of heparin-induced thrombocytopenia in the Croatian Institute of Transfusion Medicine in the period from 2011 to 2016	6
165	JayakodyArachchillage	2018	Does one size fit for everyone? pre-test probability of heparin induced thrombocytopenia (4-T's score)	6
166	Cunningham	2018	A case of 'double hit' thrombocytopenia	6
167	Cho	2018	Double-duty plasma exchange: patient with heparin-induced thrombocytopenia and bivascular acute intravascular hemolysis	6
168	Freeman	2018	Retrospective review of argatroban use and dosing in critical care	6
169	Brodard	2018	Accuracy of heparin-induced platelet aggregometry (PAT) for the diagnosis of heparin-induced thrombocytopenia	6
170	Kraus	2018	Effect of platelet size on the platelet reactivity in the HIPA-test	6
171	Imen	2018	Clinical and biological aspects of Heparin-induced thrombocytopenia in intensive care unit	6
172	Desai	2018	The ability of the immucor IgG-specific ELISA optical density result to predict sra positivity for the diagnosis of heparin-induced thrombocytopenia (HIT)	6
173	Fenelus	2018	Testing for heparin-induced thrombocytopenia in cancer patients	6
174	Gurnani	2018	Predictive value of the 4T score for heparin-induced thrombocytopenia in cardiac surgery patients	6
175	Thomson	2018	Pharmacoeconomic analysis for diagnosis and treatment of suspected heparin-induced thrombocytopenia	6
176	Gurnani	2018	Comparison of scoring tools to determine the risk of hit in critically ill cardiac surgery patients	6
177	Markovic	2017	False positive immunoassay for heparin-induced thrombocytopenia in the presence of monoclonal gammopathy: A case report	5
178	Besser	2017	Heparin-Induced Thrombocytopenia and Vascular Surgery	4
179	Guarino	2017	New platelet functional method for identification of pathogenic antibodies in HIT patients	1
180	Vayne	2017	Beneficial effect of exogenous platelet factor 4 for detecting pathogenic heparin-induced thrombocytopenia antibodies	1
181	Malicev	2017	The level of heparin-induced antibodies in correlation with the result of the flow cytometric functional assay in the patients with suspected HIT	1
182	Mian	2017	Autoimmune HIT due to apheresis catheter heparin flushes for stem cell harvesting before autotransplantation for myeloma	4
183	Jones	2017	A Platelet Factor 4-Dependent Platelet Activation Assay Facilitates Early Detection of Pathogenic Heparin-Induced Thrombocytopenia Antibodies	1
184	Rodeghiero	2017	A hit to current "hit" wisdom: A century later it's time for a change	4
185	Knoebll	2017	Is It HIT? Critical Care Medicine	4
186	Nguyen	2017	Anti-platelet factor 4/polyanion antibodies mediate a new mechanism of autoimmunity	4
187	Cadamuro	2017	Effectiveness of a Laboratory Gate-Keeping Strategy to Overcome Inappropriate Test Utilization for the Diagnosis of Heparin-Induced Thrombocytopenia	1
188	Kerenyi	2017	Evaluation of flow cytometric HIT assays in relation to an IgG-Specific immunoassay and clinical outcome	1
189	Poudel	2017	Spontaneous HIT syndrome post-knee replacement surgery with delayed recovery of thrombocytopenia: a case report and literature review	5
190	Lau	2017	Laboratory testing protocols for Heparin-induced thrombocytopenia (HIT) testing	4
191	Raschke	2017	Clinical effectiveness of a Bayesian algorithm for the diagnosis and management of heparin-induced thrombocytopenia	1
192	Wong	2017	Performance of 4T score and heparin-platelet factor 4 antibody in the diagnosis of heparin-induced thrombocytopenia (HIT) in cancer	1

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193	Mitrosz	2017	The causes of thrombocytopenia after transcatheter aortic valve implantation	1
194	Husseinzadeh	2017	Diagnostic accuracy of IgG-specific versus polyspecific enzyme-linked immunoassays in heparin-induced thrombocytopenia: a systematic review and meta-analysis	4
195	Favaloro	2017	Clinical and laboratory diagnosis of heparin induced thrombocytopenia: an update	4
196	Maeda	2017	Identifying patients at high risk of heparin-induced thrombocytopenia-associated thrombosis with a platelet activation assay using flow cytometry	1
197	Nguyen	2017	Platelet factor 4/heparin complexes present epitopes differently on solid-phase vs platelet surfaces	4
198	Warkentin	2017	Performance characteristics of an automated latex immunoturbidimetric assay [HemosIL <sup>sup</sup> HIT-Ab(PF4-H) <sub>inf</sub> ] for the diagnosis of immune heparin-induced thrombocytopenia	1
199	Welsby	2017	The association of anti-platelet factor 4/heparin antibodies with early and delayed thromboembolism after cardiac surgery	1
200	Zollner	2017	Platelet activation in the presence of neutral protamine Hagedorn insulin: a new feature of antibodies against protamine/heparin complexes	1
201	Padmanabhan	2017	IVIg for Treatment of Severe Refractory Heparin-Induced Thrombocytopenia	1
202	Warkentin	2017	Direct oral anticoagulants for treatment of HIT: Update of Hamilton experience and literature review	4
203	Hong	2017	A rare case report of acyclovir-induced immune thrombocytopenia with tongue hematomas as the first sign and a literature review	5
204	Kuter	2017	Clinical outcomes in a cohort of patients with heparin-induced thrombocytopenia	1
205	Harada	2017	Overtreatment of Heparin-Induced Thrombocytopenia in the Surgical ICU	1
207	Marik	2017	Response	4
208	Aldallal	2017	Heparin in HIT: Effectiveness as an anticoagulant	4
209	Ezekwudo	2017	Apixaban for treatment of confirmed heparin-induced thrombocytopenia: A case report and review of literature	5
210	Rouge	2017	Argatroban for an alternative anticoagulant in HIT during ECMO	5
211	Nagler	2017	Profile of Instrumentation Laboratory's HemosIL AcuStar HIT-Ab(PF4-H) assay for diagnosis of heparin-induced thrombocytopenia	4
212	Ritchie	2017	Comparison of an IgG-Specific Enzyme-Linked Immunosorbent Assay Cutoff of 0	1
213	Gan	2017	Delayed-onset heparin-induced skin necrosis: a rare complication of perioperative heparin therapy	5
214	Schlosser	2017	Petechial rash and thrombocytopenia with unfractionated heparin (UFH) use: Heparin induced thrombocytopenia (HIT) in a child with non-vegetative infective endocarditis	6
215	Vayne	2017	Development of PF4/heparin dependent antibodies in patients undergoing extracorporeal membrane oxygenation and clinical impact	6
216	Nowak-Harnau	2017	Practical limitations of diagnostic algorithms in the management of heparin induced thrombocytopenia: Clinical case report	6
217	Ahmadinejad	2017	Prevalence of heparin induced thrombocytopenia among Iranian patients with cardiac surgery	6
218	KerenPolitsky	2017	Experience in diagnostic assays for heparin-induced thrombocytopenia	6
219	Sartori	2017	Anti-PF4/heparin antibodies and platelet derived PF4 bearing microparticles in acute sepsis	6
220	Faille	2017	Isolation of a monoclonal IgG kappa with functional autoantibody activity against platelet factor 4/heparin from a patient with a monoclonal gammopathy of undetermined significance and clinically overt heparin thrombocytopenia	6
221	Zheng	2017	The feasibility of heparin neutralization assay to replace serotonin release assay in the diagnosis of heparin-induced thrombocytopenia	6
222	DeCooman	2017	Evaluation of an automated chemiluminescent assay and two ELISA's for detection of heparin induced IgG antibodies in the diagnosis of heparin induced thrombocytopenia (HIT)	6
223	Tan	2017	Soluble glycoprotein vi (SGPVI) measurement is a useful biomarker of platelet activation in heparin-induced thrombocytopenia (HIT) and correlates with thrombotic events	6
224	Nguyen	2017	A new mechanism of autoimmune hit caused by a subset of antibodies	6



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225	Leger	2017	Heparin induced thrombocytopenia: A laboratory comparison of the IGG specific eia vs polyspecific eia	6
226	Mukherjee	2017	Heparin-induced thrombocytopenia with very high antibody titer is associated with slower platelet recovery	6
227	Khalighi	2017	Hit diagnosis: A proposed new definition for clinical research	6
228	Khandelwal	2017	In vitro complement activation by PF4/heparin complexes is mediated by plasma IGM	6
229	Cipok	2017	Sensitive and specific functional flow cytometry assay for rapid diagnosis of heparin induced thrombocytopenia and thrombosis (HIT)	6
230	Bitar	2017	Heparin-induced thrombocytopenia: Are we ordering too much	6
231	Peeke	2017	A 2 year of review of hit evaluations at an urban medical center with an aim towards quality improvement and the development of practical testing strategies	6
232	Johnston	2017	Platelet factor 4 binds to released von willebrand factor strands from injured endothelium and forms a prothrombotic hit antigenic complex	6
233	Tsui	2017	Integration of a heparin-induced thrombocytopenia Order-Set (HITOS): A retrospective study	6
234	Lim	2017	Impact of systems-based hematologists in maintaining a hit program using continuous clinical audit and education in an academic medical center	6
235	Uprasert	2017	High incidence of true heparin-induced thrombocytopenia and heparin-induced thrombocytopenia antibody development in critically ill medical patients	6
236	Huynh	2017	The identification of the amino acids on platelet factor 4 that bind pathogenic antibodies in heparin-induced thrombocytopenia	6
237	Tan	2017	Soluble glycoprotein vi (SGPVI) measurement is a useful biomarker of platelet activation in heparin-induced thrombocytopenia (HIT) and correlates with thrombotic events	6
238	Balasubramaniam	2017	Alternative anticoagulation with bivalirudin in high-risk cardiac surgery: A case report	6
239	Althaus	2017	Anti-teicoplanin antibodies as a cause of a false positive HIPA test	6
240	Hammer	2017	In vitro heparin-independent platelet activation: A further diagnostic challenge in patients undergoing extracorporeal circulation in the intensive care setting	6
241	Plamenac	2017	Preoperative screening for anti-platelet factor 4/heparin antibodies does not accurately predict heparin-induced thrombocytopenia post vad	6
242	Nowak-Harnau	2017	Heparin induced thrombocytopenia-practical limitations of diagnostic algorithms	6
243	Isaac	2017	Massive heparin-induced thrombocytopenia-related thrombosis despite two negative platelet factor 4 immunoassays	6
244	Jin	2017	Implementation of wholeblood impedance aggregometryfor heparin-induced thrombocytopeniafunctional assay	6
245	Kumar	2017	A comparison of stic Expert HIT and ID-PaGIA heparin/PF4 antibody test in suspected heparin-induced thrombocytopenia	6
246	Angelov	2017	Characterization of platelet activation markers in early onset preeclampsia	6
247	Soufla	2017	Evaluation of a rapid nanoparticle-based lateral flow immunoassay (stic expert hit) for the diagnosis of heparininduced thrombocytopenia in a cardiothoracic hospital	6
248	Delnoij	2017	Limited sensitivity of the 4T-score in patients with confirmed heparin-induced thrombocytopenia during extracorporeal life support	6
249	Ilic	2017	Early identification of heparin-induced thrombocytopenia in surgical intensive care patients by using the HIT Expert Probability score: A pilot study	6
250	Ogihara	2016	Pulse-spray catheter-directed thrombolysis with urokinase and argatroban for thrombo-occlusion of an inferior vena cava filter due to heparin-induced thrombocytopenia with thrombosis	5
251	Warkentin	2016	Platelet Activation Testing for Heparin-Induced Thrombocytopenia Antibodies: A Problem That Needs Fixing? Chest	4
252	Selleng	2016	Heparin-induced thrombocytopenia in cardiac surgery and critically ill patients	1
253	Warkentin	2016	Clinical picture of heparin-induced thrombocytopenia (HIT) and its differentiation from non-HIT thrombocytopenia	1
254	Delcea	2016	Biophysical tools to assess the interaction of PF4 with polyanions	2
255	Maiti	2016	Indiscriminate testing for heparin-induced thrombocytopenia a teachable moment	4
256	Scully	2016	How we manage patients with heparin induced thrombocytopenia	4

연번	제1저자	연도	제목	사유
257	Sun	2016	Diagnostic accuracy of rapid immunoassays for heparin-induced thrombocytopenia: A systematic review and meta-analysis	4
258	Khandelwal	2016	Immune pathogenesis of heparin-induced thrombocytopenia	1
259	Samos	2016	Heparin-induced thrombocytopenia presenting with deep venous thrombosis and pulmonary embolism successfully treated with rivaroxaban: Clinical case report and review of current experiences	4
260	Warkentin	2016	Management of heparin-induced thrombocytopenia	4
261	Alvarez	2016	Acquired and Hereditary Hypercoagulable States in Patients with Continuous Flow Left Ventricular Assist Devices: Prevalence and Thrombotic Complications	1
262	Izumi	2016	Reduced induction of anti-PF4/heparin antibody in RA patients after total knee arthroplasty	1
263	Padmanabhan	2016	A Novel PF4-Dependent Platelet Activation Assay Identifies Patients Likely to Have Heparin-Induced Thrombocytopenia/Thrombosis	1
264	Sokolovic	2016	Platelet Count Trends and Prevalence of Heparin-Induced Thrombocytopenia in a Cohort of Extracorporeal Membrane Oxygenator Patients	1
265	Krauel	2016	Further insights into the anti-PF4/heparin IgM immune response	1
266	Bakchoul	2016	An update on heparin-induced thrombocytopenia: diagnosis and management	4
267	Bito	2016	Mechanical prophylaxis is a heparin-independent risk for anti-platelet factor 4/heparin antibody formation after orthopedic surgery	1
268	Nagler	2016	Diagnostic value of immunoassays for heparin-induced thrombocytopenia: A systematic review and meta-analysis	4
269	Mya	2016	Screening frequency incidence and pattern of heparin-induced thrombocytopenia syndrome at a large tertiary institution	1
270	Sampat	2016	HIT or Miss: The Sequential Diagnostic Approach to Heparin-Induced Thrombocytopenia Illustrated in a Child with Acute Post-Streptococcal Glomerulonephritis	1
271	Cuker	2016	Does my patient have HIT? There should be an app for that	4
272	Schrottmaier	2016	Platelet activation at the onset of human endotoxemia is undetectable in vivo	1
273	Jatzlauk	2016	Flucloxacillin-induced immune thrombocytopenia	5
274	Malicev	2016	Evaluation of a flow cytometric assay for the confirmation of heparin-induced thrombocytopenia	1
275	Warkentin	2016	Demand on-demand testing for the diagnosis of heparin-induced thrombocytopenia	4
276	Jouni	2016	Partially desulfated heparin modulates the interaction between antiprotamine/heparin antibodies and platelets	3
277	Pouplard	2016	A rapid test (STic Expert) for the diagnosis of heparin-induced thrombocytopenia - response to De Cooman and Devreese	4
278	Khoury	2016	Acute intraoperative heparin-induced thrombocytopenia (HIT) and thrombosis during coronary artery bypass grafting: Two case reports providing evidence for the role of preoperative LMWH in triggering sensitization	5
279	Burnett	2016	Heparin-induced thrombocytopenia: reducing misdiagnosis via collaboration between an inpatient anticoagulation pharmacy service and hospital reference laboratory	1
280	Senzel	2016	Negative heparin-induced thrombocytopenia test result after massive transfusion: Believe it or not? American Journal of Clinical Pathology	1
281	Warkentin	2016	Letter of response to Peters and Vlaar commentary	4
282	Hata	2016	Non-immune mediated thrombocytopenia caused by thromboprophylaxis for the perioperative care of urological surgery: A case report and review of the literature	5
283	Collins	2016	Autoimmune heparin-induced thrombocytopenia: A case report	6
284	Lee	2016	Functional studies of monoclonal antibodies against human TFPI for next generation hemophilia therapy	6
285	Bon	2016	Evaluation of anti-heparin-PF4 complex antibodies and platelets-derived PF4 bearing microparticles in sepsis	6
286	Siegemund	2016	Quantification of anti-ADAMTS 13 antibodies using an activity-based approach	6
287	Nguyen	2016	Detailed characterization of PF4/Heparin antibodies shows that qualitative difference determines their clinical relevance	6

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288	Marchetti	2016	Rapid HIT diagnosis: Comparative evaluation of 3 immunoassays	6
289	Baschin	2016	Platelet activation by platelet factor 4/heparin antibodies in the absence of heparin: Implications for laboratory investigations of heparin-induced thrombocytopenia	6
290	Ortli	2016	Thrombocytopenia – Is there too much focus on HIT type II diagnostics? Hamostaseologie	6
291	Lambert	2016	Multidisciplinary approach of the management of Heparin-Induced Thrombocytopenia (HIT) at the Hopitaux Universitaires of Strasbourg	6
292	Mariampillai	2016	Heparin-induced thrombocytopenia antibody testing and its cost effectiveness: Taking a financial HIT	6
293	Ero	2016	Thromboelastography and the functional confirmation of heparin-induced thrombocytopenia in donor whole blood	6
294	Schlam	2016	Adequate use of the 4T's score as a primary screening tool for heparin induced thrombocytopenia	6
295	Refaai	2016	Evaluation of a rapid and automated heparin-induced thrombocytopenia immunoassay	6
296	Khandelwal	2016	Novel ELISA-based assay for detection of complement activation by PF4/heparin complexes	6
297	Vayne	2016	Beneficial effect of exogenous PF4 on SRA for detecting pathogenic HIT antibodies	6
298	Rollin	2016	Characterization of 5B9 a chimeric monoclonal anti-PF4/H antibody with a human Fc fragment and which mimics the effects of HIT human antibodies	6
299	Gollomp	2016	A special role for neutrophil extracellular traps (NETs) and neutrophils in the prothrombotic nature of heparin-induced thrombocytopenia	6
300	Krauel	2016	Staphylococcal autolysin and lipoteichoic acids recruit platelet factor 4 to the bacterial surface	6
301	Zheng	2016	Increased CXCL4/PF4 presence in systemic sclerosis and absence of heparin directed autoantibodies	6
302	Kumar	2016	Heparin-induced thrombocytopenia: Correlation of clinical and laboratory parameters	6
303	Tycinska	2016	The mechanisms of thrombocytopenia after transcatheter aortic valve implantation	6
304	Lau	2016	Evaluation of modified heparin-induced platelet activation assay (HIPA) and correlation against pf4-elisa method from STAGO at tan tock SENG Hospital Singapore	6
305	Liverani	2016	Protein kinase C-delta inhibition modulates platelet activation and platelet-leukocyte interaction during sepsis	6
306	Parquin	2016	The high frequency of antibodies against the platelet Factor 4/Heparin complex in patients with lung transplantation is not associated with thrombotic events	6
307	Uaprasert	2016	A rapid IgG specific lateral flow immunoassay demonstrates superior diagnostic performance to platelet Factor 4/Heparin-Particle Gel immunoassay in screening for heparin-induced thrombocytopenia	6
308	Maeda	2016	Very low incidence of heparin-induced thrombocytopenia in pediatric patients even in those with a high pretest probability	6
309	Tomer	2016	Sensitive and specific functional flow cytometry assay for the rapid diagnosis of heparin-induced thrombocytopenia and thrombosis (HIT)	6
310	Jamil	2016	Analysis of heparin induced thrombocytopenia screening tests in critical care units	6
311	Wintz	2016	Intraoperative therapeutic plasma exchange to decrease heparin-induced thrombocytopenia (HIT) antibodies immediately prior to heart transplantation	6
312	Samhour	2016	Utilization of 4T score to determine the pretest probability of heparin induced thrombocytopenia at unity hospital	6
313	Patsouras	2015	Elevated expression of platelet-derived chemokines in patients with antiphospholipid syndrome	1
314	Warkentin	2015	Heparin-induced thrombocytopenia in critically ill patients	1
315	Padmanabhan	2015	A modified PF4-dependent CD62p expression assay selectively detects serotonin-releasing antibodies in patients suspected of HIT	4
316	Beauverd	2015	Suspicion of heparin-induced thrombocytopenia in internal medicine: How appropriate is the ordering of anti-PF4/heparin antibody testing? Platelets	1

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317	Tapan	2015	Outcome of patients with positive heparin-platelet factor-4 antibodies: A retrospective multi-institutional observational study	1
318	Okata	2015	Spontaneous heparin-induced thrombocytopenia syndrome without any proximate heparin exposure infection or inflammatory condition: Atypical clinical features with heparin-dependent platelet activating antibodies	5
319	Sakr	2015	What's new about heparin-induced thrombocytopenia type II	4
320	VanDerVeen	2015	Serial ADAMTS13 measurements during initial plasma exchange therapy guide decisions for management of unresponsive thrombotic thrombocytopenic purpura	5
321	Joseph	2015	External validation of the hit expert probability (HEP) score	1
322	Krzych	2015	Heparin-induced thrombocytopenia	4
323	Matsuo	2015	Production of anti-platelet factor 4/heparin complex antibodies after cardiovascular surgery	1
325	Panzer	2015	Serological features of antibodies to protamine inducing thrombocytopenia and thrombosis	1
326	Pasalic	2015	The new and the old of heparin-induced thrombocytopenia	4
327	Jourdy	2015	Prospective evaluation of automatized PF4/heparin immunoassays HemosIL HIT-ab (PF4-H) for the diagnosis of heparin-induced thrombocytopenia	1
328	Slavik	2015	Polymorphism of the Fcγ3 Receptor II as a possible predisposing factor for heparin-induced thrombocytopenia	1
329	Park	2015	Presence of antiheparin/platelet factor 4 immunoglobulin g is associated with poor prognosis in patients with suspected disseminated intravascular coagulation	2
330	Lu	2015	Clinical and laboratory characteristics associated with a high optical density anti-platelet factor 4 ELISA test	1
331	Linkins	2015	Combination of 4Ts score and PF4/H-PaGIA for diagnosis and management of heparin-induced thrombocytopenia: Prospective cohort study	1
332	Favaloro	2015	Toward improved diagnosis of HIT	1
333	Linkins	2015	Heparin induced thrombocytopenia	4
334	Nazi	2015	Pitfalls in the diagnosis of heparin-Induced thrombocytopenia: A 6-year experience from a reference laboratory	1
335	Warkentin	2015	The platelet serotonin-release assay	1
336	Warkentin	2015	Plasma exchange to remove HIT antibodies: Dissociation between enzyme-immunoassay and platelet activation test reactivities	1
337	Linkins	2015	Rivaroxaban for treatment of HIT: A riveting first experience	4
338	Brandt	2015	Polyphosphates form antigenic complexes with platelet factor 4 (PF4) and enhance PF4-binding to bacteria	1
339	Samuelson	2015	Use of a computer-based provider order entry (CPOE) intervention to optimize laboratory testing in patients with suspected heparin-induced thrombocytopenia	1
340	Glick	2015	Clinically suspected heparin-induced thrombocytopenia during extracorporeal membrane oxygenation	1
341	Nazi	2015	Distinguishing between anti-platelet factor 4/heparin antibodies that can and cannot cause heparin-induced thrombocytopenia	1
342	Padmanabhan	2015	Heparin-independent PF4-dependent binding of HIT antibodies to platelets: Implications for HIT pathogenesis	1
343	Chaturvedi	2015	Over-testing for heparin induced thrombocytopenia in hospitalized patients	1
344	Karnes	2015	A genome-wide association study of heparin-induced thrombocytopenia using an electronic medical record	1
345	Obeng	2015	Pediatric heparin-induced thrombocytopenia: Prevalence thrombotic risk and application of the 4Ts scoring system	1
346	Cai	2015	Atomic description of the immune complex involved in heparin-induced thrombocytopenia	3
347	Chen	2015	The frequency of heparin-induced thrombocytopenia in Taiwanese patients undergoing cardiopulmonary bypass surgery	1
348	Chen	2015	Compound MacKay-03 inhibits growth and induces megakaryocytic differentiation in human leukaemia cells and augments megakaryocytopoiesis	1
349	Perjar	2015	Heparin-induced thrombocytopenia associated with hematopoietic progenitor cell-apheresis collection	6

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350	Gumulec	2015	Biobanking for heparin induced thrombocytopenia	6
351	Creasey	2015	A case of heparin-induced thrombocytopenia with thrombosis and cross-reacting antibodies to fondaparinux successfully treated with rivaroxaban	6
352	Fulda	2015	Description of a process to optimize diagnosis and management of hit in a university hospital	6
353	Vasse	2015	High frequency of anti-platelet factor 4 /heparin antibodies in patients with lung transplantation	6
354	McMillan	2015	Role of platelet activation in the pathogenesis of heart failure in End-stage renal disease patients	6
355	Choi	2015	Non-pathogenic antibodies in HIT: Clustering for clarity	6
356	Erica	2015	Testing for heparin induced thrombocytopenia: Comparison of practice at an academic center with choosing wisely guidelines	6
357	Uaprasert	2015	Low pre-test probability scores are not sufficient to exclude heparin-induced thrombocytopenia in critically ill patients	6
358	Padmanabhan	2015	A novel PF4-dependent platelet activation assay identifies patients likely to have heparin-induced thrombocytopenia/thrombosis (HIT)	6
359	Awad	2015	Are we doing too many hit tests? II	6
360	Paddock	2015	Efficiency of diagnosing hit at a large academic medical center	6
361	Piche	2015	Characterization of heparin-induced thrombocytopenia in status 1A cardiac transplant candidates	6
362	Ferguson	2015	Comparison of optical density ranges of igg specific elisa utilizing confirmatory results of SRA	6
363	O'Brien	2015	Assessing the clinical and economic impact of an automated on-demand immunoassay for the diagnosis of heparin induced thrombocytopenia	6
364	Alrabeh	2015	The utility of the PIFA PLUS P4 assay for screening of heparin-induced thrombocytopenia type 2 (HIT-II)	6
365	Nagy	2015	Pain as unique manifestation of high titer anti-PF4/heparin antibodies	6
366	Giaccherini	2015	Monitoring hemostatic potential of platelets during storage of platelet concentrates for transfusion	6
367	Kwan	2015	The 4T score for heparin induced thrombocytopenia in burn patients: Does hitting the target help select patients for testing? Journal of Burn Care and Research	6
368	Tomicic	2015	Evaluation of the use of national guidelines for diagnosis and management of Heparin-Induced Thrombocytopenia (HIT) in the croatian institute of transfusion medicine in the period from 2011 to 2014	6
369	Byrne	2015	Audit of test results following the introduction of a testing algorithm for heparin induced thrombocytopenia (HIT) in a referral laboratory	6
370	King	2015	Impact of overdiagnosis of HIT in a large community hospital	6
371	Horner	2015	Rapid functional heparin induced thrombocytopenia (HIT) assay using multiplate: Comparison with heparin induced platelet activation (HIPA) assay and ACL AcuStar antigen assay	6
372	Siegemund	2015	An activity-based approach to anti-ADAMTS 13 antibodies	6
373	Lee	2015	A novel approach for hemophilia therapy through antibody targeted TFPI	6
374	Vichitrachaneekorn	2015	The incidence of heparin-induced thrombocytopenia in critically ill medical patients	6
375	Delcea	2015	Biophysical characterization of the interaction between platelet factor 4 and synthetic low molecular weight heparins	6
376	Delcea	2015	Thermal stability of platelet factor 4 and its complexes with heparins studied by differential scanning calorimetry	6
377	Aleidan	2015	Is the incidence trend of heparin-induced thrombocytopenia decreased by the increased use of low-molecular-weight-heparin? Journal of Thrombosis and Haemostasis	6
378	Miyata	2015	Dynamic mechanical thromboprophylaxis is a major heparin-independent risk factor for the formation of anti-platelet factor 4/heparin antibodies in patients undergoing total knee or HIP arthroplasty	6
379	Rollin	2015	Development and characterization of 5B9 a potential international standard for the diagnosis of heparininduced thrombocytopenia	6

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380	Maeda	2015	Impact of platelet activation detected by the washed platelet activation assay on thrombotic outcomes in patients clinically suspected of having heparin-induced thrombocytopenia	6
381	Delcea	2015	Polyphosphate chain length determines antigenicity of complexes formed with platelet factor 4 (PF4) and PF4-binding to bacteria	6
382	Tirunagari	2015	Saved from hit	6
383	Soleimani	2015	Timing is everything	6
384	Menon	2015	Between a rock and a hard place: A patient with heparin-induced thrombocytopenia and concurrent bleeding	6
385	Maeda	2014	Impact of heparin-induced thrombocytopenia on acute coronary artery thrombosis in patients undergoing PCI	4
386	Lehner	2014	Repeated premature hemofilter clotting during regional citrate anticoagulation as indicator of heparin induced thrombocytopenia	1
388	Leroux	2014	Prospective evaluation of a rapid nanoparticle-based lateral flow immunoassay (STic Expert <sup>sup</sup> )/sup> HIT) for the diagnosis of heparin-induced thrombocytopenia	1
389	Gardiner	2014	DiagnoSTic assays for heparin-induced thrombocytopenia	1
390	Bockeria	2014	EComment	4
391	Sun	2014	Ten-year screening for thrombocytopenia after aortic valve replacement	1
392	deBree	2014	Heparin-induced thrombocytopenia after ICD-lead flushing	5
393	Birschmann	2014	Non-transient "self-sustaining" heparin-induced thrombocytopenia: 4-Year persistence of a platelet-activating PF4/heparin-antibody status without heparin exposure	5
394	Warkentin	2014	An instrument-based immunoassay with an appropriate normal range: Minimizing HIT overdiagnosis	4
395	Fiorenza	2014	Assessment of a modified 4T scoring system for heparin-induced thrombocytopenia in critically ill patients	1
396	Garritsen	2014	High sensitivity and specificity of a new functional flow cytometry assay for clinically significant heparin-induced thrombocytopenia antibodies	1
397	Medvedev	2014	Micropatterned array to assess the interaction of single platelets with platelet factor 4-heparin-IgG complexes	1
398	WanHaslinda wani	2014	Laboratory and clinical profile of anti-PF4 antibodies among acute coronary syndrome patients treated with UFH or Fondaparinux: A single centre study	1
399	Martin	2014	Heparin-induced thrombocytopenia testing is over-utilized in cirrhosis & correlates with poor clinical outcomes	1
400	Brandt	2014	Characterisation of the conformational changes in platelet factor 4 induced by polyanions: Towards in vitro prediction of antigenicity	1
401	Fried	2014	Prior hematologic conditions carry a high morbidity and mortality in patients supported with continuous-flow left ventricular assist devices	1
402	Cuker	2014	Clinical and laboratory diagnosis of heparin-induced thrombocytopenia: An integrated approach	1
403	Kotwal	2014	Heparin: Induced thrombocytopenia: Incidence and laboratory approach to diagnosis in Indians	1
404	Warkentin	2014	Serological investigation of patients with a previous history of heparin-induced thrombocytopenia who are reexposed to heparin	1
405	Pearson	2014	Correlation of ELISA optical density with clinical diagnosis of heparin-induced thrombocytopenia: A retrospective study of 104 patients with positive anti-PF4/heparin ELISA	1
406	Bakchoul	2014	Current insights into the laboratory diagnosis of HIT	1
407	Resseguie	2014	Heparin allergy: Get "HIT" with the facts	4
408	Ganzel	2014	Platelet factor 4/heparin-particle gel immunoassay (PaGIA) is a weak method for heparin-induced thrombocytopenia (HIT) evaluation of post cardio-pulmonary bypass surgery patients	1
409	Grandvuillem in	2014	Unusual Case of HIT With Cardiac Arrest During Hemodialysis	5
410	Chuansumrit	2014	Hemostatic derangement in dengue hemorrhagic fever	4

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411	Gellatly	2014	Fondaparinux: An effective bridging strategy in heparin-induced thrombocytopenia and mechanical circulatory support	4
412	Warkentin	2014	Platelet microparticle generation assay for detection of HIT antibodies: Advance retreat or too soon to tell? Thrombosis Research	4
413	Chan	2014	Heparin-induced thrombocytopenia due to heparin lock in a hemodialysis patient: A case report	5
414	Reagan	2014	Differences in the clinical course of heparin induced thrombocytopenia before and after the availability of HIT IgG class testing	1
415	Schulze	2014	New insights in heparin-induced thrombocytopenia by the use of fluid-phase assays to detect specifically platelet factor 4/heparin complex antibodies and antibody-secreting cells	3
416	Schindewolf	2014	Frequent off-label use of fondaparinux in patients with suspected acute heparin-induced thrombocytopenia (HIT) - Findings from the GerHIT multi-centre registry study	1
417	Slavik	2014	The advantages and limitations of impedance aggregometry in detection of heparin-induced thrombocytopenia	1
418	Warkentin	2014	Spontaneous heparin-induced thrombocytopenia syndrome: 2 new cases and a proposal for defining this disorder	5
419	Bakchoul	2014	Anti-platelet factor 4/heparin antibodies in patients with impaired graft function after liver transplantation	1
420	Burger	2014	Intravenous Warfarin and Heparin-Induced Thrombocytopenia: Making the Diagnosis, Management, Modern Monitoring and Multidisciplinary Care	5
421	Yoshika	2014	A Case of Heparin-Induced Thrombocytopenia with Discrepancy in the Results of Anti-Platelet Factor 4/Heparin Antibodies between Latex-Particle-Enhanced Immunoturbidimetric Assay and Enzyme Immunoassay	5
422	Schindewolf	2014	Generation of HIT antibodies in orthopedic surgery patients in the absence of heparin	6
423	Cronin	2014	Full automation of heparin induced thrombocytopenia ELISA assay on dynex DSX ELISA platform	6
424	Whiting	2014	Validation of an algorithm to confirm or rule out heparin-induced thrombocytopenia (HIT): Preliminary results	6
425	Erkoc	2014	Upper and lower extremity gangrenes with heparin induced thrombocytopenia in a hemodialysis patient	6
426	Sivera	2014	Case report of antiphospholipid antibodies (aPL) and fondaparinux heparin-induced thrombocytopenia (HIT): A diagnostic dilemma	5
427	Morelli	2014	Update on laboratory diagnosis of heparin-induced thrombocytopenia (HIT)	6
428	Greinacher	2014	New insights into the pathogenesis of HIT: From innate immunity to an autoimmune syndrome	6
429	Sampietro	2014	A 5-year experience of testing for heparin induced thrombocytopenia (HIT)-antibodies in a University Hospital	6
430	Patel	2014	Evaluation of anti-platelet factor-4 laboratory test ordering in the cardiovascular intensive care unit	6
431	Vaughn	2014	Implementation of a heparin-induced thrombocytopenia management program reduces the cost of diagnostic testing and pharmacologic treatment in an academic medical center	6
432	Dhakal	2014	Heparin re-exposure in patients with heparin-induced thrombocytopenia (HIT)	6
433	Mukhi	2014	Hit: Secondary drop phenomenon in platelets	6
434	Turley	2014	Clinical features of heparin-induced thrombocytopenia diagnosed by lumi-aggregometry	6
435	Nazi	2014	Low level platelet-activating antibodies in patients suspected of having heparin-induced thrombocytopenia but testing negative in the "gold standard" functional test	6
436	Nannapaneni	2014	A rapid heparin antibody detection assay performs better than 4t's score in predicting HIT diagnosis: A single community medical center retrospective analysis	6
437	Rollin	2014	Influence of FCgammaRIIA H131R polymorphism on the risk of thrombosis in hit and variable effect of normal IgG on platelet activation	6
438	Chaturvedi	2014	Over-testing for heparin induced thrombocytopenia in hospitalized patients with thrombocytopenia	6

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439	Prechel	2014	Complexes of platelet factor 4 and heparin elicit toll-like receptor 4-mediated cytokine release	6
440	Rosenblatt	2014	Heparin induced thrombocytopenia testing and anticoagulation use at a tertiary care center	6
441	Greinacher	2014	HIT-when to consider and when to treat? Oncology Research and Treatment	6
442	Sampat	2014	Heparin-induced thrombocytopenia in a child with post-infectious glomerulonephritis	6
443	Marler	2014	Consequences of treating false positive heparin-induced thrombocytopenia	6
444	Ferguson	2014	Evaluation of IGG versus IGG/IGM/IGA PF4 elisa for diagnosis of hit and argatroban usage	6
445	Strobel	2014	Use of the ID-PaGIA Heparin/PF4 antibody test as a screening test for Heparin/PF4 IgG antibodies	6
446	Khadour	2014	The effect of a partially desulfated heparin (ODSH) on the interaction between anti-protamine/heparin antibodies and platelets	6
447	Kerenyi	2014	Laboratory diagnosis of heparin induced thrombocytopenia	6
448	Revelli	2014	Evaluation of an automated assay for the detection of heparin antibodies	6
449	Bashover	2014	Development of a whole-cell elisa that detects additional antibodies to platelets and red blood cells in the setting of suspected heparin-induced thrombocytopenia	6
450	Huang	2014	Efficacy of therapeutic plasma exchange in heparin-induced thrombocytopenia patients prior to cardiac surgery with heparin	6
451	Kim	2014	The peril of antibody testing for heparin-induced thrombocytopenia: A case report	6
452	Padmanabhan	2014	Platelet-activating HIT antibodies bind preferentially to PF4 treated platelets in the absence of heparin: Implications for HIT pathogenesis	6
453	Sullivan	2014	Rapid detection of IgG, IgA, IgM antibodies associated with heparin-induced thrombocytopenia (HIT)	6
454	Riteco	2014	A simple functional assay for heparin-induced thrombocytopenia testing	6
455	Bakchoul	2014	Current insight in the laboratory diagnosis of hit	6
456	FarmStephanie	2014	Assessment of the diagnostic algorithm for heparin-induced thrombocytopenia	6
457	Stormer	2014	Diagnostic of heparin-induced thrombocytopenia type II using multiple electrode aggregometry (HIMEA)	6
458	Nautiyal	2014	A swing and a miss: Heparin induced thrombocytopenia (HIT) with an initially negative antibody screen	6
459	Sikara	2014	Plasma levels of PF-4VAR/CXCL4L1 a non allelic variant of platelet factor-4 (PF-4/CXCL4) are elevated in patients with antiphospholipid syndrome (APS)	6
460	Raschke	2013	Improving clinical interpretation of the anti-platelet factor 4/heparin enzyme-linked immunosorbent assay for the diagnosis of heparin-induced thrombocytopenia through the use of receiver operating characteristic analysis stratum-specific likelihood ratios and Bayes theorem	1
461	Nazi	2013	FcgammaRIIa proteolysis as a diagnostic biomarker for heparin-induced thrombocytopenia	1
462	Kelton	2013	Nonheparin anticoagulants for heparin-induced thrombocytopenia	4
463	Pasic	2013	Uncomplicated postoperative course after transfusion of 176 units of blood products during a single cardiovascular surgery	1
464	Zhao	2013	The Clinical Significance and Risk Factors of Anti-Platelet Factor 4/heparin Antibody on Maintenance Hemodialysis Patients: A Two-Year Prospective Follow-up	1
465	Thong	2013	Management of heparin-induced thrombocytopenia (HIT) in patients with systemic vasculitis and pulmonary haemorrhage	5
466	Matsuo	2013	Evaluation of circuit and AV fistula clotting and detection of anti-PF4/heparin complex antibodies in hemodialysis patients suspected of having heparin-induced thrombocytopenia	1
467	Cuker	2013	Novel diagnostic assays for heparin-induced thrombocytopenia	1
468	Singla	2013	Protamine-induced immune thrombocytopenia	5
469	Pamela	2013	Heparin-induced thrombocytopenia: The role of platelets genetic polymorphisms	1



연번	제1저자	연도	제목	사유
470	Mozzo	2013	Meningococemia and heparin-induced thrombocytopenia: A dangerous combination	1
471	Pouplard	2013	Incidence of antibodies to protamine sulfate/heparin complexes in cardiac surgery patients and impact on platelet activation and clinical outcome	1
472	Solano	2013	Using HitAlert flow cytometry to detect heparin-induced thrombocytopenia antibodies in a tertiary care hospital	1
473	Greinacher	2013	Heparin-induced thrombocytopenia	1
474	Studt	2013	Heparin-induced thrombocytopenia associated with thrombotic microangiopathy	1
475	Lee	2013	Diagnosis and management of heparin-induced thrombocytopenia	4
476	Mammen	2013	Comprehensive review of anticoagulation strategies in renal replacement therapies	4
477	Pierce	2013	Evaluation of heparin-induced thrombocytopenia (HIT) laboratory testing and the 4Ts scoring system in the intensive care unit	5
478	Warkentin	2013	Anti-PF4/heparin antibodies and venous graft occlusion in postcoronary artery bypass surgery patients randomized to postoperative unfractionated heparin or fondaparinux thromboprophylaxis	1
479	Andrews	2013	Prospective observational evaluation of the particle immunofiltration anti-platelet factor 4 rapid assay in MICU patients with thrombocytopenia	1
480	Dasararaju	2013	Heparin induced thrombocytopenia: Review	4
481	Wanat	2013	PF4/heparin antibody testing and treatment of heparin-induced thrombocytopenia in the intensive care unit	1
482	Aimoto	2013	Refractoriness to platelet transfusion in acute myeloid leukemia correlated with the optical density of anti-platelet factor 4/heparin antibodies	1
485	Sylvester	2013	Impact of an immunoglobulin G-specific enzyme-linked immunosorbent assay on the management of heparin-induced thrombocytopenia	1
486	Zheng	2013	Critical role for mouse marginal zone B cells in PF4/heparin antibody production	3
487	Beiras-Fernandez	2013	Platelet Factor 4-Positive Thrombi Adhering to the Ventricles of a Ventricular Assist Device in Patients with Heparin-Induced Thrombocytopenia Type II	1
488	Hron	2013	Alternative diagnosis to heparin-induced thrombocytopenia in two critically ill patients despite a positive PF4/heparin-antibody test	1
489	Mehta	2013	Predictors and outcomes of suspected heparin-induced thrombocytopenia in subarachnoid hemorrhage patients	1
490	Jaax	2013	Complex formation with nucleic acids and aptamers alters the antigenic properties of platelet factor 4	3
491	Vithanarachi	2013	Sequential testing—a new consideration when diagnosing HIT	6
492	Schindewolf	2013	Frequent off-label use of fondaparinux in patients with suspected acute heparin-induced thrombocytopenia (HIT) – results from the GerHIT multicentre registry study	6
493	Sokolovic	2013	Incidence and characteristics of heparin induced thrombocytopenia (HIT) in a cohort of ECMO patients	6
494	Ha	2013	Immature platelet counts may predict which cases of suspected heparin-induced thrombocytopenia (HIT) yield a positive anti-pf4 immunoassay	6
495	Castillo	2013	Use of plasmapheresis in heparin-induced thrombocytopenia (HIT) with thrombosis and acute hemorrhage	6
496	Seidel	2013	Laboratory and clinical performance of rapid immunoassays in diagnosis of heparin induced thrombocytopenia: Comparison of lateral flow and gel centrifugation with ELISA technique	6
497	Schindewolf	2013	Frequent off-label use of fondaparinux in patients with suspected acute heparin-induced thrombocytopenia (HIT)—results from the GerHIT multicentre registry study	6
498	Hron	2013	Heparin-induced thrombocytopenia (HIT II) in liver transplant recipients: A prospective study on prevalence risk-assessment and impact on clinical outcome	6
499	Althaus	2013	Evaluation of automated immunoassays in the diagnosis of heparin induced thrombocytopenia	6
500	Sikara	2013	Plasma levels of PF-4var/CXCL4L1 a non allelic variant of platelet factor-4 (PF-4/CXCL4) are elevated in patients with antiphospholipid syndrome (APS)	6

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501	Kumar	2013	Hit happens: The inpatient dilemma of heparin induced thrombocytopenia	6
502	Minet	2013	Acustar HIT-IGG and heparin-induced multiple electrode aggregometry: A useful combination for rapid diagnosis of type-II HIT	6
503	Schulze	2013	Determination of anti-PF4/heparin complex antibodies in the fluid phase (P4549)	6
504	Jouni	2013	Immunization against protein/heparin complexes in pediatric patients undergoing cardiac surgery	6
505	Iluonakhamhe	2013	Plasma exchange effective in acute management of heparin induced thrombocytopenia in setting of acute inter-cerebral hemorrhage	6
506	Felli	2013	Argatroban in the management of patients with heparin-induced thrombocytopenia type II (HIT) undergoing implantation of a left ventricular assist device	6
507	Cegarra	2013	Fondaparinux management for heparin-induced thrombocytopenia in postoperative cardiac surgery patients	6
508	Schindewolf	2013	Frequent off-label use of fondaparinux in patients with suspected acute heparin-induced thrombocytopenia (HIT)-results from the GerHIT multi-centre registry study	6
509	Alkhatib	2013	Heparin induced thrombocytopenia in cardiac transplant recipients: Incidence and complications	6
510	Walenga	2013	Thrombotic biomarker profiling of plasma samples from patients undergoing bypass surgery using protein chip array	6
511	Sullivan	2013	A multiplex flow cytometry bead assay for simultaneous detection of IgG, IgA, IgM heparin-dependent antibodies	6
512	Linkins	2013	Combination of 4T's score and rapid gel centrifugation assay excludes hit in a prospective cohort study	6
513	Schaefer	2013	Improving recognition, diagnosis, and management of heparin induced thrombocytopenia by implementing a computer-based clinical decision support system	6
514	Tapan	2013	Outcome of patients with positive heparin-platelet factor 4 antibodies: A retrospective observational study	6
515	Warkentin	2013	Spontaneous heparin-induced thrombocytopenia syndrome: Two new cases and a proposal for defining this disorder	6
516	Deutsch	2013	Heparin-induced thrombocytopenia: A rapid reliable and practical functional flow-cytometric assay	6
517	Padmanabhan	2013	A novel assay for the preferential detection of "pathogenic" hit antibodies	6
518	Gohari	2013	Intricacies of treating heparin induced thrombocytopenia with preexisting antiphospholipid syndrome and renal insufficiency	6
519	Paul	2013	A threshold optical density value in immunoassay predicts thrombosis in patients with heparin induced thrombocytopenia	6
520	Thind	2013	Correlation of heparin confirmatory test (HCT) with Optical Density (OD) and serotonin release assay (SRA) in the diagnosis of Heparin Induced Thrombocytopenia (HIT)	6
521	Seguchi	2013	Clinical impact of platelet transfusion on thromboembolism in patients with acute heparin-induced thrombocytopenia	6
522	Kaneko	2013	Heparin-induced thrombocytopenia in japan	6
523	Depasse	2013	Diagnosis and exclusion of hit	6
524	Wanaka	2013	Recurrence of heparin-induced thrombocytopenia induced by the re-administration of heparin after negative conversion of HIT antibodies in a patient with hemodialysis	6
525	Turley	2013	The utility of ELISA optical density as a prognostic tool in patients with confirmed heparin-induced thrombocytopenia	6
526	Thomas	2013	A rheological study of incipient clots formed by heparinized plasma: Assessing the health risk associated with HIT and exploring the use of Gel Point detection for therapeutic management	6
527	Bosworth	2013	The assessment of patients with heparin-PF4 antibody positivity: The importance of expert haematological input remains	6
528	Kavakli	2013	Incidence of Heparin-induced thrombocytopenia in sick children who used unfractionated heparin for prophylaxis in intensive care unit	6

연번	제1저자	연도	제목	사유
529	Schindewolf	2013	Frequent off-label use of fondaparinux in patients with suspected acute heparin-induced thrombocytopenia (HIT)-final results from the GerHIT multi-centre registry study	6
530	Walenga	2013	Protein chip array and thrombotic biomarker profiling of plasma samples undergoing bypass surgery	6
531	Wanaka	2013	Significance of the measurement of HIT antibodies on diagnosis of heparin-induced thrombocytopenia in the patients with hemodialysis	6
532	Miyashita	2013	Evaluation of three new fully automated quantitative immunoassays on diagnosis of heparin-induced thrombocytopenia	6
533	Krauel	2013	Fibronectin inhibits anti-PF4/heparin antibody induced platelet activation and low fibronectin levels are a potential risk factor for developing clinical HIT	6
534	Walenga	2013	In vitro immunogenicity assessment of branded enoxaparin and a US generic version of enoxaparin	6
535	Fareed	2013	Further studies on the pro-inflammatory and thrombotic mediators in patients with suspected heparin-induced thrombocytopenia	6
536	Vithanarachi	2013	Improving specificity for diagnosing heparin-induced thrombocytopenia through repeated testing	6
537	Bansal	2013	Variations in the prevalence of HIT antibodies during the period 2004-2012	6
538	Fareed	2013	Recombinant thrombomodulin as an alternate anticoagulant in the long-term management of patients with heparin-induced thrombocytopenia	6
539	Maeda	2013	Impact of heparin-induced thrombocytopenia on acute coronary artery thrombosis in patients undergoing percutaneous coronary intervention	6
540	Leroux	2013	Prospective evaluation of a rapid and IgG specific nanoparticle-based lateral flow immunoassay (Stic Expert HIT) for the diagnosis of heparin-induced thrombocytopenia	6
541	Pouplard	2013	Detection and measurement of anti-IL8 IgG antibodies in cardiac surgery patients and heparin-induced thrombocytopenia using a multiplexed fluorimetric assay	6
542	Rollin	2013	Impact of polymorphisms affecting ACP1 which codes for a protein tyrosine phosphatase on levels of antibodies to platelet factor 4/heparin complexes	6
543	Warkentin	2013	Serological investigation of 20 patients re-exposed to heparin with a previous history of heparin-induced thrombocytopenia (HIT)	6
544	Litvinov	2013	Bimolecular interactions of platelet factor 4 (PF4) with HIT-pathogenic versus non-pathogenic anti-PF4/ heparin antibodies	6
545	Tsai	2012	Anti-PF4/heparin antibodies are associated with arteriovenous fistula thrombosis in non-diabetic hemodialysis patients	1
546	Nellen	2012	Rapid exclusion or confirmation of heparin-induced thrombocytopenia: A single-center experience with 1291 patients	1
547	Sakr	2012	Heparin-induced thrombocytopenia type II in a surgical intensive care unit	1
548	Zhang	2012	Serum antibodies to the heparin/platelet factor 4 complex are an independent predictor of thrombotic complications following pediatric fontan surgery	1
549	Haouach	2012	Contributions of biological tests and the 4 Ts score in the diagnosis of heparin induced thrombocytopenia	4
550	Smythe	2012	Assessing the impact of a heparin-induced thrombocytopenia protocol on patient management outcomes and cost	1
551	Sachais	2012	Rational design and characterization of platelet factor 4 antagonists for the study of heparin-induced thrombocytopenia	3
552	Khandelwal	2012	A renal HIT	4
553	Sachais	2012	Dynamic antibody-binding properties in the pathogenesis of HIT	3
554	Jaax	2012	Management of heparin-induced thrombocytopenia	4
555	Joglekar	2012	Disruption of PF4/H multimolecular complex formation with a minimally anticoagulant heparin (ODSH)	3
556	Cuker	2012	Update in the diagnosis and management of heparin-induced thrombocytopenia	1
557	Cuker	2012	How I treat heparin-induced thrombocytopenia	4
559	Tafur	2012	Natural language processor as a tool to assess heparin induced thrombocytopenia awareness	1
560	Satoh	2012	Heparin-dependent and -independent anti-platelet factor 4 autoantibodies in patients with systemic lupus erythematosus	1

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561	Fieland	2012	Dabigatran use in a postoperative coronary artery bypass surgery patient with nonvalvular atrial fibrillation and heparin-PF4 antibodies	5
562	Slavik	2012	Current possibilities of laboratory diagnosis heparin-induced thrombocytopenia	1
563	Lamuraglia	2012	The identification and management of heparin-induced thrombocytopenia in the vascular patient	1
564	Boyce	2012	Challenges to the design and execution of controlled clinical studies of anticoagulants in patients with heparin-induced thrombocytopenia: Lessons learned	4
565	Warkentin	2012	HITlights: A career perspective on heparin-induced thrombocytopenia	1
566	Bakchoul	2012	Recent advances in the diagnosis and treatment of heparin-induced thrombocytopenia	4
567	Voican	2012	Heparin induced thrombocytopenia: A review	4
568	Radaideh	2012	Incidence of isolated heparin-induced thrombocytopenia and risk of thrombosis by IgG-specific anti-PF4/heparin ELISA	4
569	Morel-Kopp	2012	Validation of whole blood impedance aggregometry as a new diagnostic tool for HIT: Results of a large Australian study	1
570	Malicev	2012	Serological and functional tests for the diagnosis of heparin-induced thrombocytopenia	4
571	Martinuzzo	2012	Levels of antiplatelet factor 4-heparin antibodies and 4T score for heparin induced thrombocytopenia	1
572	Gumulec	2012	Diagnosis of heparin-induced thrombocytopenia in the Czech Republic	4
573	Baroletti	2012	Thrombosis in suspected heparin-induced thrombocytopenia occurs more often with high antibody levels	1
574	Warkentin	2012	Optical densities reduce odds of heparin-induced thrombocytopenia over-diagnosis	4
575	Warkentin	2012	The serological profile of fondaparinux-associated heparin-induced thrombocytopenia syndrome	4
576	Park	2012	Usefulness of anti-PF4/heparin antibody test for intensive care unit patients with thrombocytopenia	1
577	McFarland	2012	Improving the specificity of the PF4 ELISA in diagnosing heparin-induced thrombocytopenia	1
578	Kia	2012	The utility of hit testing in patients with cirrhosis	6
579	Fiorenza	2012	Assessment of a modified scoring system for the diagnosis of heparin-induced thrombocytopenia in critically ill patients	6
580	Chan	2012	Epidemiology of heparin induced thrombocytopenia in the intensive care unit	6
581	Fareed	2012	Prevalence of heparin-induced thrombocytopenia antibodies during the period 2004-2011: Relevance to heparin composition	6
582	Chaudry	2012	Comparative studies on the hit antibody-mediated platelet aggregation/serotonin release by synthetic pentasaccharide and two chemoenzymatically synthesized heptasaccharides	6
583	Burnett	2012	Collaboration between inpatient anticoagulation service and hospital reference laboratory to reduce overdiagnosis of heparin-induced thrombocytopenia	6
584	Dore	2012	Evaluation of interobserver agreement between two heparin-induced thrombocytopenia scores	6
585	Gaddh	2012	Evaluation of 4T score and polytypic solid-phase elisa test in the diagnosis of heparin-induced thrombocytopenia	6
586	Aranda	2012	An ultralow-molecular-weight heparin (Semuloparin) does not mediate hit antibody-mediated aggregation of platelets	6
587	Smith	2012	Heparin-induced thrombocytopenia antibody is more common in patients with active bacterial infection	6
588	Panchal	2012	Hit by HITT (heparin induced thrombocytopenia and thrombosis)	6
589	Morelli	2012	Laboratory testing for heparin induced thrombocytopenia	6
590	Hassan	2012	Incidence of heparin induced thrombocytopenia in the transplant population: A large retrospective cohort single transplant centre experience	6
591	Ingham	2012	Incidence of direct thrombin inhibitor therapy for presumed heparin induced thrombocytopenia before and after implementation of heparin induced thrombocytopenia IGG subtype antibody test	6

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592	Pongas	2012	Anti-platelet factor 4/heparin antibodies in patients with gram negative bacteremia	6
593	Pouplard	2012	Prospective evaluation of a rapid nanoparticle-based lateral flow immunoassay (Stic Expert HIT) for the diagnosis of heparin-induced thrombocytopenia	6
594	Pearson	2012	Correlation of elisa optic density with clinical diagnosis of heparin-induced thrombocytopenia: A retrospective study of 104 patients with positive anti-PF4/heparin antibodies	6
595	Macher	2012	Single center experience with the nanoparticle-based flow immunoassay for diagnosis of heparin-induced thrombocytopenia (HIT)	6
596	Kavakli	2012	The incidence of heparin-induced thrombocytopenia (HIT) after prophylactic heparin exposure in pediatric intensive care and congenital cardiology patients: A single center prospective and phase-IV study: Turkish experience	6
597	Joglekar	2012	Pf4/h complexes induce germinal centers in vivo	6
598	Garritsen	2012	Using a functional flow cytometric assay (HITAlert) to support clinical heparin-induced thrombocytopenia (HIT) diagnosis	6
599	Kopitar	2012	Phenotypisation of microparticles in heparin-induced thrombocytopenia	6
600	Mittal	2012	Prevalence of heparin-induced thrombocytopenia antibodies during the period 2004-2011: Relevance to heparin composition	6
601	Gergics	2012	Comparison of two heparin-induced thrombocytopenia tests	6
602	Sinkovits	2012	Connection between platelet-activation and complement-activation in thrombotic thrombocytopenic purpura	6
603	Kamber	2012	Laboratory validation of two monospecific (IgG) ELISAs for the detection of pf4/heparin antibodies	6
604	Barco	2012	Heparin-induced thrombocytopenia: Clinical perspective and serological evaluations in 52 consecutive patients	6
605	Consiglio	2012	Pretest clinical score (4TS) and laboratory testing for reliable diagnosis of heparin-induced thrombocytopenia	6
606	Rogolino	2012	Performance evaluation of automated immunoassays for the detection of anti PF4/heparin complex antibodies	6
607	Novelli	2012	Evaluation of a new rapid test for detection of anti PF4-heparin antibodies in hit diagnosis	6
608	Scarpato	2012	New diagnostic tests for detection of H/PF4 antibodies	6
609	Lowe	2012	Drug-induced immune thrombocytopenia caused by ampicillin	6
610	Macher	2012	The LFI-HIT as a rapid test for HIT diagnosis has a slightly lower sensitivity but higher specificity compared to the PaGIA	6
611	Bakchoul	2012	Anti-protamine sulphate/PF4 antibodies can activate platelets and cause thrombocytopenia in vivo	6
612	Toussaint-Hacquard	2012	Prospective evaluation of the new automated immunoassay Hemosil HIT-AB in the diagnosis of Heparin-Induced Thrombocytopenia (HIT)	6
613	Just	2012	Review of Serotonin Release Assay (SRA) results for confirmation of Heparin Induced Thrombotic Thrombocytopenia (HITT)	6
614	Aurore	2012	A true hit is not a hit is not a hit	6
615	Gelas	2012	Heparin-Induced Thrombocytopenia (HIT) diagnosis: Detection of heparin-dependent antibodies of the IGG isotype by using the zymutest hia monostrip IGG kit (hyphen biomed)	6
616	Gemmell	2012	Evaluation of the hitalert test for heparin-induced thrombocytopenia	6
617	Greinacher	2012	Heparin-induced thrombocytopenia: Too many hits for hit	6
618	Studt	2012	Thrombotic microangiopathy (TMA) complicated by heparin-induced thrombocytopenia (HIT) following hemodialysis (HD): Report of two cases	6
619	Petrescu-Jipa	2012	Incidence of heparin-induced thrombocytopenia type II (HIT II): Retrospective evaluation of clinical and laboratory data (2008-2011)	6
620	Kiefel	2012	Lateral flow immunoassay-a useful tool for detection of PF4/heparin antibodies in HIT? Hamostaseologie	6
621	Czwalinna	2012	First experience with the Hemosil AcuStar HIT IgG (Instrumentation Laboratory)-is a quick answer the better answer to rule out Heparin-induced Thrombocytopenia (HIT)? Hamostaseologie	6

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622	Kolde	2012	A rapid IgG specific immunoassay for heparin induced thrombocytopenia (HIT)	6
623	Sachs	2012	A new nanoparticle-based lateral-flow immunoassay for the rapid and safe exclusion of heparin-induced thrombocytopenia (HIT)	6
624	Walenga	2012	Comparative studies on the HIT antibody mediated platelet aggregation/serotonin release by synthetic pentasaccharide and two chemoenzymatically synthesized heptasaccharides	6
625	Aranda	2012	An ultra low molecular weight heparin (Semuloparin) does not mediate HIT antibody mediated aggregation of platelets	6
626	Fareed	2012	Variations in the prevalence of heparin induced thrombocytopenia antibodies during the period 2004-2011	6
627	Selleng	2012	Prevalence and clinical implications of platelet factor 4/heparinantibodies in critically ill patients	6
628	Jaax	2012	In vivo immunogenicity of platelet factor 4/aptamer complexes	6
629	Krauel	2012	Endotoxin of gram-negative bacteria contributes to PF4 binding thereby exposing PF4/heparin-like epitopes	6
630	Mullier	2012	Platelet microparticle generation assay: A valuable predictor of clinical outcome in heparin-induced thrombocytopenia diagnosis	6
631	Vitale	2012	Pretest clinical score (4Ts) and laboratory testing for reliable diagnosis of heparin-induced thrombocytopenia	6
632	GiorgiPierfranceschi	2012	Argatroban for treatment of vein thrombosis complicating heparin-induced thrombocytopenia in haemodialyzed multiple myeloma: A case report	6
633	GiorgiPierfranceschi	2012	Argatroban for treatment of DVT complicating heparin-induced thrombocytopenia in multiple myeloma undergoing hemodialysis: A case report	6
634	Bansal	2012	Variations in the prevalence of hit antibodies during the period 2004-2012	6
635	Sylvester	2012	Meeting its match: Nonspecific versus IGG-specific PF4 antibody testing in the management of heparin-induced thrombocytopenia	6
636	Karakuzu	2012	Do we underestimate heparin induced trombocytopenia? International Journal of Cardiology	6
637	Bingo	2019	[Undetectable anti-platelet factor 4/heparin antibodies with IgG-specific chemiluminescent immunoassays in a heparin-induced thrombocytopenia patient]	5
638	Keren-Politsky	2019	[Experience in Diagnostic Assays for Heparin-Induced Thrombocytopenia - Experience of a Tertiary Hospital in Israel]	1
639	Liu	2018	Rare heparin induced thrombocytopenia type I reaction in a hemodialysis patient: Case report	5
640	Favaloro	2018	Laboratory tests for identification or exclusion of heparin induced thrombocytopenia: HIT or miss? American Journal of Hematology	4
641	Sewing	2017	Assessing single-stranded oligonucleotide drug-induced effects in vitro reveals key risk factors for thrombocytopenia	4
642	Strobel	2017	Use of the ID-PaGIA Heparin/PF4 Antibody Test as a screening test for heparin/platelet factor 4 antibodies	3
643	Meinders	2016	Repercussion of Megakaryocyte-Specific Gata1 Loss on Megakaryopoiesis and the Hematopoietic Precursor Compartment	3
644	Malicev	2016	Evaluation of a flow cytometric assay for the confirmation of heparin-induced thrombocytopenia	1
645	Bloom	2016	Body mass index strongly impacts the diagnosis and incidence of heparin-induced thrombocytopenia in the surgical intensive care unit	1
646	Laverdure	2016	PF4-heparin antibodies during ECMO: incidence course and outcomes	4
647	Lambert	2015	Intramedullary megakaryocytes internalize released platelet factor 4 and store it in alpha granules	3
648	Martinuzzo	2014	[Anti PF4/heparin antibodies detection by immunoturbidimetry in the diagnosis of heparin-induced thrombocytopenia]	4
649	Kreimann	2014	Binding of anti-platelet factor 4/heparin antibodies depends on the thermodynamics of conformational changes in platelet factor 4	6
650	Pongas	2013	Antiplatelet factor 4/heparin antibodies in patients with gram negative bacteremia	6
651	Sakata	2013	[New stream for the measurement of anti-platelet factor 4/heparin antibodies]	7
652	Rollin	2013	Impact of polymorphisms affecting the ACP1 gene on levels of antibodies against platelet factor 4-heparin complexes	4

연번	제1저자	연도	제목	사유
653	Nazi	2013	FcγRIIIa proteolysis as a diagnostic biomarker for heparin-induced thrombocytopenia	6
654	Lee	2013	High incidence of antibodies to protamine and protamine/heparin complexes in patients undergoing cardiopulmonary bypass	6
655	Bakchoul	2013	Anti-protamine-heparin antibodies: incidence, clinical relevance and pathogenesis	6
656	Galea	2013	Heparin-induced multiple electrode aggregometry is a promising and useful functional tool for heparin-induced thrombocytopenia diagnosis: confirmation in a prospective study	1
657	Vatanparast	2012	Evaluation of a pretest scoring system (4Ts) for the diagnosis of heparin-induced thrombocytopenia in a university hospital setting	1
658	Haouach	2012	Contributions of biological tests and the 4Ts score in the diagnosis of heparin induced thrombocytopenia	1
659	Gremmel	2012	Frequency of heparin/platelet factor 4-dependent platelet antibodies in patients undergoing angioplasty and stenting for cardiovascular disease and their role for on-clopidogrel platelet reactivity	1
660	Yusuf	2012	Prognostic importance of preoperative anti-PF4/heparin antibodies in patients undergoing cardiac surgery	1
661	Warkentin	2013	Heparin-induced thrombocytopenia in medical surgical critical illness	1
662	Soucy	2019	Secondary outcomes of the guided self-help behavioral activation and physical activity for depression trial	4