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No.	Field	Keywords	Published	Title	Brief of the Article
1	Dyslipidemic disease	Dyslipidemia/ Pemafibrate/ Drug Efficacy/ Comparison with NMR	2021	Distinct Differences in Lipoprotein Particle Number Evaluation between GP-HPLC and NMR: Analysis in Dyslipidemic Patients Administered a Selective PPARα Modulator, Pemafibrate. Yamashita S et al. J Atheroscler Thromb. 2021 Feb 2.	The study indicates that LipoSEARCH (GP-HPLC) is much accurate for analyzing lipoprotein particle numbers (PNs) compare to NMR and it can be useful tool for assessing drug efficacy.
2	Healthy donor Standard Value	Standard value (Healthy Subject)	2013	Serum cholesterol and triglyceride reference ranges of twenty lipoprotein subclasses for healthy Japanese men and women. Furusyo N, et al. Atherosclerosis. 2013; 231(2): 238-245.	Conducted large clinical study (825 fasting healthy subjects (267 men./558 women)) and indicated cholesterol and triglyceride subclass levels. It is a good reference of normal control standard value.
3	Dyslipidemic disease	Clinical trial / SPPARM α Pemafibrate	2016	Effects of K-877, a novel selective PPARα modulator (SPPARMα), in dyslipidaemic patients: A randomized, double blind, active- and placebo-controlled, phase 2 trial Ishibashi S, et al. Atherosclerosis. 2016 Jun;249:36-43.	Monitoring change of lipid profile with hyperlipidemia patients who have high TG and low LDL-Cholesterol before and after administration in the phase II clinical study of novel hyperlipidemia drug (K-877 -Pemafibrate),
4	Coronary artery disease	Efficacy Test (Eicosapentaenoic acid / statin)	2020	Administration of eicosapentaenoic acid may alter lipoprotein particle heterogeneity in statin-treated patients with stable coronary artery disease: A pilot 6-month randomized study. Tani S, Yagi T, Matsuo R, Kawauchi K, Atsumi W, Matsumoto N, Okumura Y.	Study of efficacy of eicosapentaenoic acid (EPA) in statine-treated patients with stable coronary artery disease. As the result, smaller LDL conc and particle number were decreased and large HDL and its particle number were increased.
5	Diabetes	Efficacy Test / EPA/DHA Lotrigo [®]	2018	N-3 polyunsaturated fatty acids improve lipoprotein particle size and concentration in Japanese patients with type 2 diabetes and hypertriglyceridemia: a pilot study. Ide K, et al. Lipids Health Dis 2018;17(1):51 PMID: 29544483	Clinical research of pharmacology. Monitoring after administration of EPA/DHA drug with T2DM.
6	Diabetes	Efficacy Test /Omega-3 fatty acid ethyl esters	2020	Omega-3 fatty acid ethyl esters improve low-density lipoprotein subclasses without increasing low-density lipoprotein-cholesterol levels: A phase 4, randomized study. Masuda D, et al. Atherosclerosis 2020 292 163-170 PMID: 31809985	Clinical study for evaluating efficacy of Omega-3 fatty acid ethyl esters with 53 highperlipidemia patients. After 8 weeks administration, maximum improvement was observed. LDL particle size, lipid in blood, concentration of lipoprotein and apolipoprotein were decreased in the group administrated Omega-3 fatty acid ethyl esters. VLDL,LDL, sdLDL, HDL subclass particle number were also significantly decreased.
7	Liver disease	Antihyperlipidemic drug screening test / Liver-humanized mice (PXB-cell)	2020	Lipoprotein profile and lipid metabolism of PXB-cells(), human primary hepatocytes from liver-humanized mice: proposal of novel in vitro system for screening anti-lipidemic drugs. Hata K et al. Biomed Res. 2020;41(1):33-42. doi: 10.2220/biomedres.41.33. PMID: 32092738	Antihyperlipidemic drug screening test using PXB-cell .
8	Hormone	Aromatase- knockout mice / Estrogen	2017	Abnormal lipid/lipoprotein metabolism and high plasma testosterone levels in male but not female aromatase-knockout mice. Amano A, et al. Arch Biochem Biophys 2017;622:47-58. PMID: 28341248	Study of association between sex hormone and lipid metabolism. Increasing of blood testosterone and decreasing LDL-TG, small dense LDL-TG were only observed with male aromatase knockout mice, not with female mice.
9	Autism Spectrum Disorder (ASD)	Autism Spectrum Disorder (ASD) /VLDL	2020	"VLDL-specific increases of fatty acids in autism spectrum disorder correlate with social interaction". Usui N et al. EBioMedicine 2020 Jul 30;58:102917. PMID: 32739868	Comparison study of Autism Spectrum Disorder (ASD) children and typical development (TD). The level of VLDL-TG and VLDL-Cho were significantly decreased and VLDL particle number was also remarkably decreased. Degradation of VLDL is progressed with children who suffer ASD and as the result hypolipidemia is caused. It has been suggested that such failure might be associated with the diseases.
10	Arteriosclerosis	Methodology, particle number	2016	Recent Advances in Analytical Methods on Lipoprotein Subclasses: Calculation of Particle Numbers from Lipid Levels by Gel Permeation HPLC Using "Spherical Particle Model" Mitsuyo Okazaki and Shizuya Yamashita J.Oleo Sci. 65, (4) 265-282 (2016)	Indicated analytical methods of calculation of particle number of lipoprotein.
11	LCAT deficiency	Renal Damage / LCAT / VLDL Lp8	2014	"Lipoprotein Subfractions Highly Associated With Renal Damage in Familial Lecithin:Cholesterol Acyltransferase Deficiency." Kuroda M et al. Arterioscler Thromb Vasc Biol 2014; 34(8): 1756-62.	Study used 20 subclasses of lipoprotein profile in renal damage in familial lectin cholesterol acyltransferase deficiency.

