Publication (including reports of ≥25 patients)	Type of Report	Functional Lupus	Antigenic Studies	Comments
	-	Anticoagulant Studies		
Gutiérrez López de Ocáriz X et al. Thrombosis and antiphospholipid antibodies in patients with SARS-COV-2 infection (COVID-19). Int J Lab Hematol. 2020 Dec;42(6):e280-e282. PMCID: 32851784, PMC7461094.	Retrospective N=27	6 patients (22.2%) were positive for LA	One patient (3.7%) positive for IgA anti- beta-2 glycoprotein I antibodies	No double LA/antibody positivity was found
Gatto M et al. Frequency and clinical correlates of antiphospholipid antibodies arising in patients with SARS-CoV-2 infection: findings from a multicentre study on 122 cases. Clin Exp Rheumatol. 2020 Jul-Aug;38(4):754-759. Epub 2020 Jul 28. PMID: 32723434.	Retrospective N=122	22.2% positive for LA	IgG aCL 13.4% IgM aCL 2.7% IgA aCL 1.7% IgG anti-β2GPI 6.3% IgM anti-β2GPI 7.1% IgA anti-β2GPI 3.3%	Venous or arterial thromboses occurred in 18/46 (39.1%) COVID-19 patients and were not associated with positive aPL (p=0.09).
Devreese KMJ, Linskens EA, Benoit D, Peperstraete H. Antiphospholipid antibodies in patients with COVID-19: A relevant observation? J Thromb Haemost. 2020 Sep;18(9):2191-2201. PMID: 32619328; PMCID: PMC7361253.	Prospective cohort N=31	21/31 (67.7%) LA positive	IgG aCL 19.4% IgM aCL 3.2% IgA aCL 9.7% IgG anti-β2GPI 9.7% IgM anti-β2GPI 3.2% IgA anti-β2GPI 9.7% Anti-PS/PT IgG 6.5% Anti-PS/PT IgM 12.9%	LA single positivity is frequent during (acute phase) COVID-19 infection; however, not clearly related to thrombotic complications. Triple aPL positivity and high aCL/aβ2GPI titers are rare. Repeat testing suggests aPL to be mostly transient.
Borghi MO et al. Anti-Phospholipid Antibodies in COVID-19 Are Different From Those Detectable in the Anti- Phospholipid Syndrome. Front Immunol. 2020 Oct 15;11:584241. PMID: 33178218; PMCID: PMC7593765.	Retrospective N=122	Not evaluated	IgG aCL 5.7% IgM aCL 6.% IgG anti-β2GPI 15.6% IgM anti-β2GPI 9.0% IgA anti-β2GPI 6.6% Anti-PS/PT IgG 2.5% Anti-PS/PT IgM 9.8%	aPL show a low prevalence in COVID-19 patients and are not associated with major thrombotic events. aPL in COVID-19 patients are mainly directed against β2GPI but do not bind the β2GPI domain I associated with pathogenicity in APS
Gil-Etayo FJ et al. Anti-Phospholipid Antibodies and COVID-19 Thrombosis: A Co-Star, Not a Supporting Actor. Biomedicines. 2021 Jul 27;9(8):899. PMID: 34440103; PMCID: PMC8389622.	Prospective cohort	19.4% (n=67) LA positive	n=360 IgG aCL 2.2% IgM aCL 2.8% IgG anti-β2GPI 1.1% IgM anti-β2GPI 2.8% IgA anti-β2GPI 11.1% Anti-PS/PT IgG 1.9% Anti-PS/PT IgM 2.5%	Presence of aPL was significantly associated with thrombosis (OR: 2.33), with greater degree of association for persistent positivty
Reyes Gil M, Barouqa M, Szymanski J, Gonzalez-Lugo JD, Rahman S, Billett HH. Assessment of Lupus Anticoagulant Positivity in Patients With Coronavirus Disease 2019 (COVID-19). JAMA Netw Open. 2020 Aug 3;3(8):e2017539. PMID: 32785632.	Retrospective N=68	44% LA positive	IgG aCL 0% IgM aCL 1.6% IgG anti-β2GPI 0% IgM anti-β2GPI 1.7%	LA was associated with incidence of thrombosis in patients with COVID-19.

Gasparini G, Canepa P, Verdiani S, Carmisciano L, Cozzani E, De Grazia D, Andrea O, Icardi G, Parodi A. A retrospective study on the prevalence of anti-phospholipid antibodies, thrombotic events and cutaneous signs of vasculopathy in 173 hospitalized COVID-19 patients. Int J Immunopathol Pharmacol. 2021 Jan-Dec;35:20587384211042115 PMID: 34541915; PMCID: PMC8460963.	Retrospective N=173	Not evaluated	IgG aCL 1.7% IgM aCL 8.1% IgA aCL 2.3% IgG anti-β2GPI 2.3% IgM anti-β2GPI 14.4% IgA anti-β2GPI 20.8%	No association between aPL positivity and disease outcomes including thrombosis, invasive ventilation and mortality
Le Joncour A et al. Antiphospholipid antibodies and thrombotic events in COVID-19 patients hospitalized in medicine ward. Autoimmun Rev. 2021 Feb;20(2):102729. PMID: 33321245; PMCID: PMC7834187.	Prospective cohort N=104	39.6% LA positive	IgG anti-β2GPI 8.7% IgM anti-β2GPI 2.9% IgA anti-β2GPI 5.8% aCL not reported by isotype, but "mostly" IgA	aCL and aβ2-GPI antibodies (not LA) were significantly associated with the occurrence of thrombotic events
Najim M et al. Prevalence and clinical significance of antiphospholipid antibodies in patients with coronavirus disease 2019 admitted to intensive care units: a prospective observational study. Rheumatol Int. 2021 Jul;41(7):1243-1252. Epub 2021 May 5. PMID: 33954813; PMCID: PMC8098785.	Prospective cohort N=60	35% LA positive	IgG anti-β2GPI 1.7% IgM anti-β2GPI 1.7%	Presence of aPLs does not seem to affect the outcomes of critically ill patients with COVID-19 in terms of all-cause mortality and thrombosis.
Xiao M. Antiphospholipid Antibodies in Critically III Patients With COVID-19. Arthritis Rheumatol. 2020 Dec;72(12):1998-2004. PMID: 32602200; PMCID: PMC7361932.	Retrospective N=79	2.5% LA positive	IgG aCL 5.1% IgM aCL 2.5% IgA aCL 21.5% IgG anti-β2GPI 15.2% IgM anti-β2GPI 1.3% IgA anti-β2GPI 24.1% Anti-PS/PT IgG 0% Anti-PS/PT IgM 8.9%	aPL Ab only seen in critically ill cohort
Zuo Y et al. Prothrombotic autoantibodies in serum from patients hospitalized with COVID-19. Sci Transl Med. 2020 Nov 18;12(570):eabd3876. PMID: 33139519; PMCID: PMC7724273.	Retrospective N=172	Not evaluated	IgG aCL 4.7% IgM aCL 23.0% IgA aCL 3.5% IgG anti-β2GPI 2.9% IgM anti-β2GPI 5.2% IgA anti-β2GPI 4.1% Anti-PS/PT IgG 24.0% Anti-PS/PT IgM 18.0%	Similar to IgG from patients with antiphospholipid syndrome, IgG fractions isolated from patients with COVID-19 promoted NET release from neutrophils isolated from healthy individuals.
Harzallah I, Debliquis A, Drénou B. Lupus anticoagulant is frequent in patients with Covid-19. J Thromb Haemost. 2020 Aug;18(8):2064-2065. PMID: 32324958; PMCID: PMC7264773.	Retrospective N=56	45% LA positive	aPL Ab isotypes not quantitatively reported	

Siguret V, Voicu S, Neuwirth M, Delrue M, Gayat E, Stépanian A, Mégarbane B. Are antiphospholipid antibodies associated with thrombotic complications in critically ill COVID-19 patients? Thromb Res. 2020 Nov;195:74-76. Epub 2020 Jul 8. PMID: 32663703; PMCID: PMC7342042.	Prospective cohort N=74	85% LA positive	aPL Ab isotypes not quantitatively reported	Despite its high prevalence, LA are not associated with thrombosis occurrence
Pineton de Chambrun M et al. High frequency of antiphospholipid antibodies in critically ill COVID-19 patients: a link with hypercoagulability? J Intern Med. 2021 Mar;289(3):422-424. Epub 2020 Jul 13. PMID: 32529774; PMCID: PMC7307032.	Retrospective N=25	92% LA positive	aPL Ab isotypes not quantitatively reported	