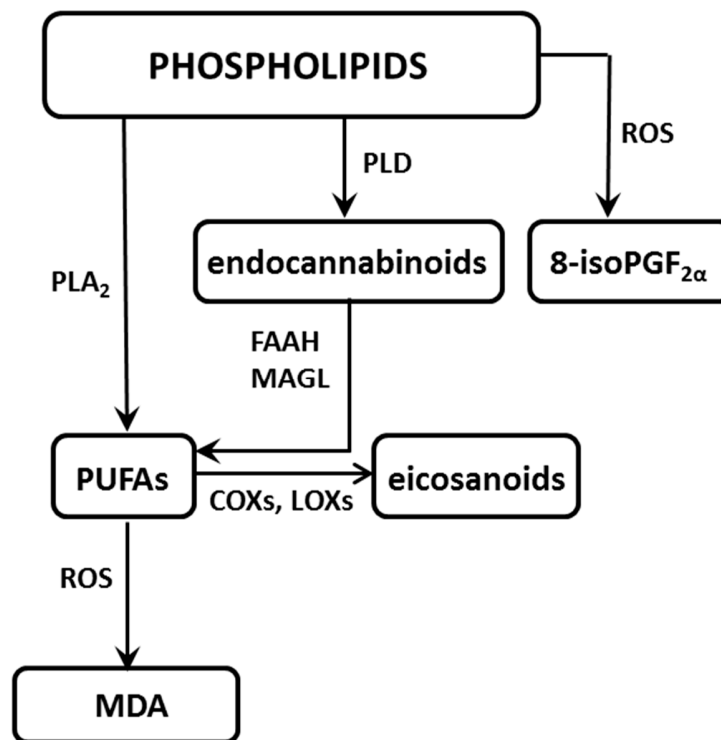


**Table S1.** Changes in examined parameters comparing the control to deceased COVID 19 patients and recovered COVID 19 patients group of plasma samples. One-way ANOVA analysis parameters; mean difference was significant at the 0.05 level ( $p < 0.0001$ \*\*\*\*;  $p < 0.001$ \*\*\*;  $p < 0.01$ \*\*;  $p < 0.05$ \*; n.s. – not significant).

	Control			Covid 19 recovered			Covid 19 deceased			Control vs. Covid 19 recovered	Control vs. Covid 19 deceased	Covid 19 recovered vs. Covid 19 deceased
	Mean	SD	n	Mean	SD	n	Mean	SD	n			
PL-AA	209.8	36.4	33	103.9	19.3	66	174.5	38.6	22	****	****	****
PL-DHA	98.8	29.3	33	50.3	12.8	66	50.1	11.8	22	****	****	ns
free AA	3.58	0.88	33	13.1	2.92	66	7.12	1.65	22	****	****	****
free DHA	2.75	0.54	33	4.11	1.03	66	3.96	0.67	22	****	****	ns
PLA2	10.69	2.32	33	27.59	7.81	66	13.22	3.86	22	****	ns	****
LOX	0.18	0.03	33	0.38	0.08	66	0.35	0.07	22	****	****	ns
COX-1	14.6	2.9	33	20.5	5.8	66	16.8	4.1	22	****	ns	**
COX-2	10.6	2.1	33	21.15	6.7	66	9.7	3.1	22	****	ns	****
MDA	1.61	0.38	33	2.92	0.75	66	3.52	1.05	22	****	****	**
8-isoPGF2 $\alpha$	0.99	0.34	33	4.88	1.39	66	3.87	1.15	22	****	****	**
PGE2	2.45	0.38	33	7.34	1.87	66	2.59	0.78	22	****	ns	****
TXB2	0.57	0.11	33	2.9	0.7	66	5.17	1.85	22	****	****	****
12-HETE	22.78	8.94	33	99.66	31.2	66	34.33	8.98	22	****	ns	****
15-d-PGJ2	10.09	2.46	33	18.34	4.76	66	11.17	3.08	22	****	ns	****
2-AG	4.04	0.77	33	11.25	2.56	66	7.05	1.43	22	****	****	****
AEA	2.34	0.52	33	5.59	1.25	66	5.57	1.54	22	****	****	ns
PEA	25.98	5.3	33	37.67	7.8	66	41.53	9.2	22	***	****	ns
OEA	11.02	2.32	33	15.63	4.22	66	18.52	4.56	22	****	****	**
TNF $\alpha$	7.1	1.05	33	11.13	2.64	66	8.94	1.27	22	****	**	***
IL-10	0.64	0.13	33	1.01	0.17	66	0.76	0.1	22	****	*	****



**Figure S1.** Phospholipid metabolism in response to reactions with reactive oxygen species (ROS) and enzymes (cyclooxygenases-(COXs) and lipoxygenases-(LOXs)).

FAAH - fatty acid amide hydrolase, MAGL - monoacylglycerol lipase, MDA - malondialdehyde, PLA<sub>2</sub> – phospholipase A<sub>2</sub>, PLD - phospholipase D, PUFAs – polyunsaturated fatty acids.