

Overview MIA data PiCo and FFX

Preliminary

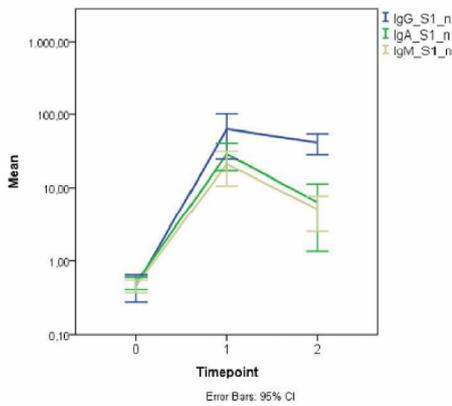
30-9-2020

Spike S1 Ig isotypes (PiCo)

rapid decay of IgA and IgM

N=57

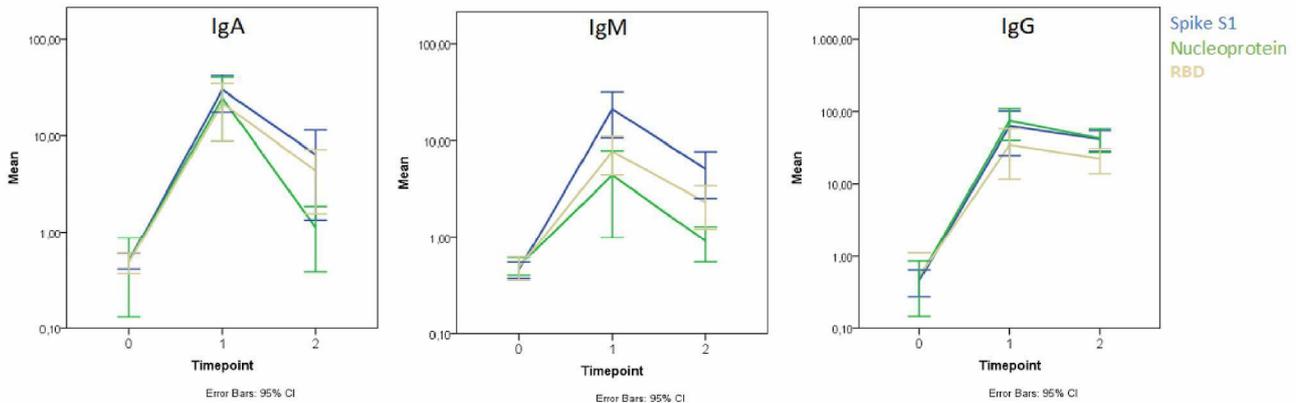
A



C

		PiCo1 V PiCo2	P3 V PiCo2
		Sig. (2-tailed)	Sig. (2-tailed)
IgG	S1	0,288	0
	N	0,094	0
	RBD	0,318	0
IgA	S1	0,001	0,023
	N	0,004	0,134
	RBD	0,01	0,008
IgM	S1	0,004	0,001
	N	0,047	0,034
	RBD	0,003	0,002

B

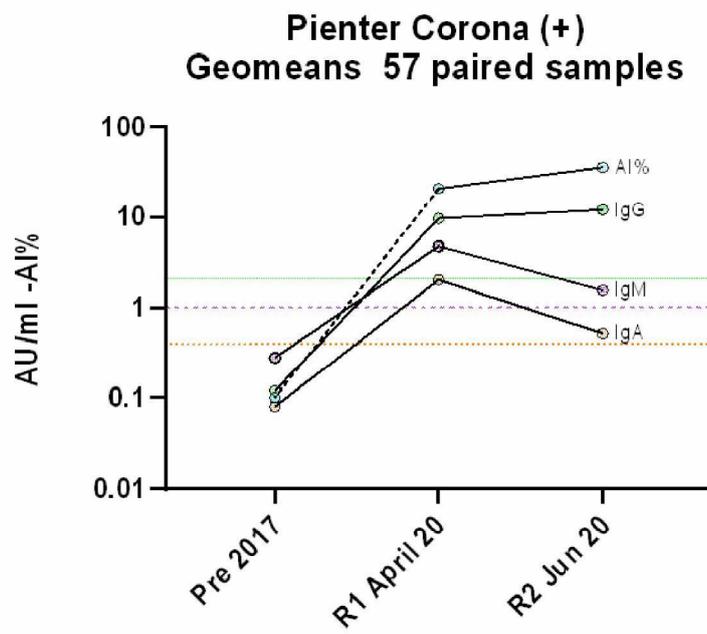


- Concentration data normalized @ T0
- X-axes data to be replaced with days since symptoms?
- C: paired samples test

Time points
 0 = pienter 3
 1 = April
 2- June

Normalized concentration data for comparison

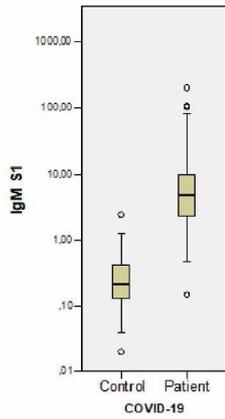
Pienter corona IgAGM, avidity for S1



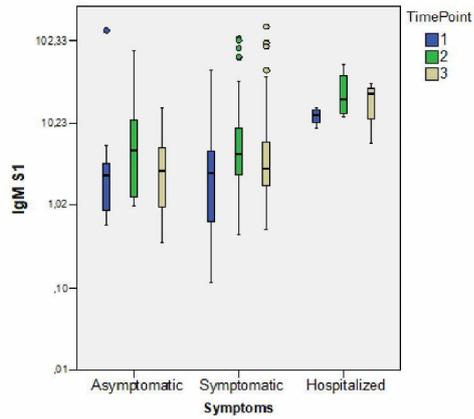
Sampling relative to time since onset of disease symptoms (FFX)

		Age group			
		1-16	17 >		
		Mean	Count	Mean	Count
					Significance
Age		12		42	
Sex	male		14 (47%)		33 (37%)
Days post symptoms		10		12	0.210
Index case			0		55
Symtoms					<0.001
	Asymptomatic		9 (30%)		2 (2.5%)
	Non-hospitalized		21 (70%)		71 (88.8%)
	Hospitalized		0 (0%)		7 (8.8%)

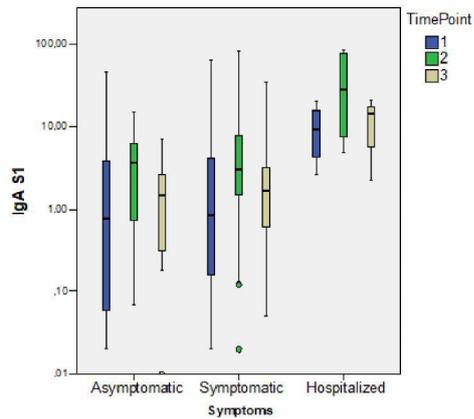
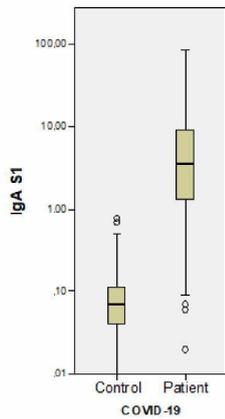
Reference panels



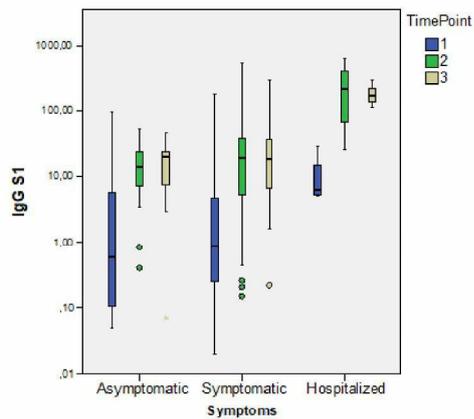
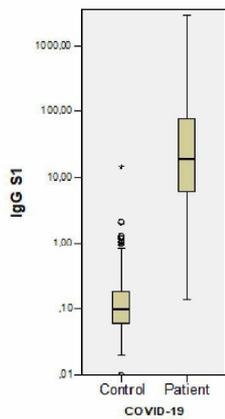
Spike S1 antibody kinetics (FFX)



snelle IgM inductie (vergelijk met 'Control' in linker plaatje)



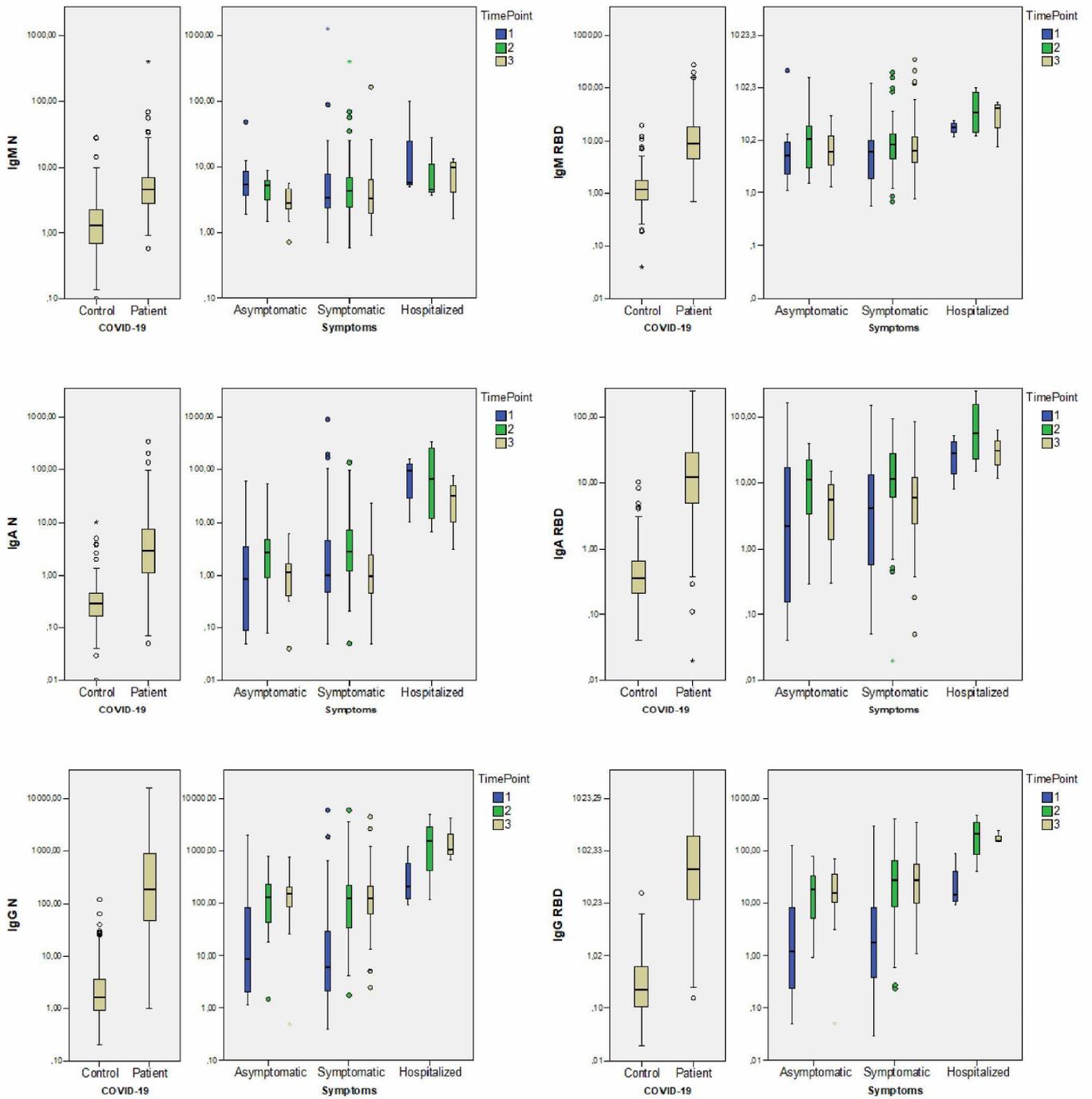
IgA lijkt af te nemen tussen T2 en T3



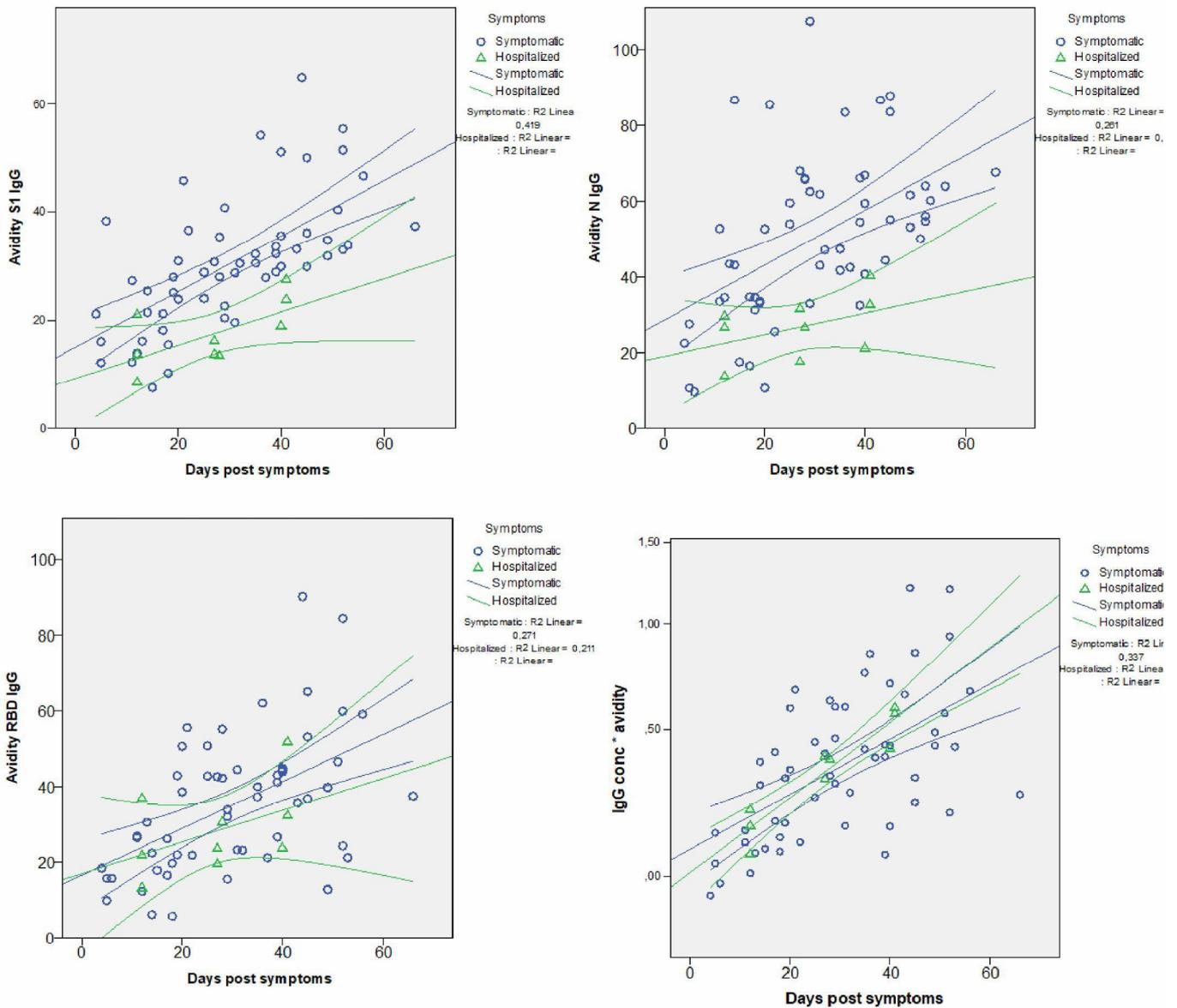
IgG blijft op niveau

Tijd tussen T1, 2 en 3 is een paar weken (varieert tussen personen)

N and RBD antibody kinetics (FFX)



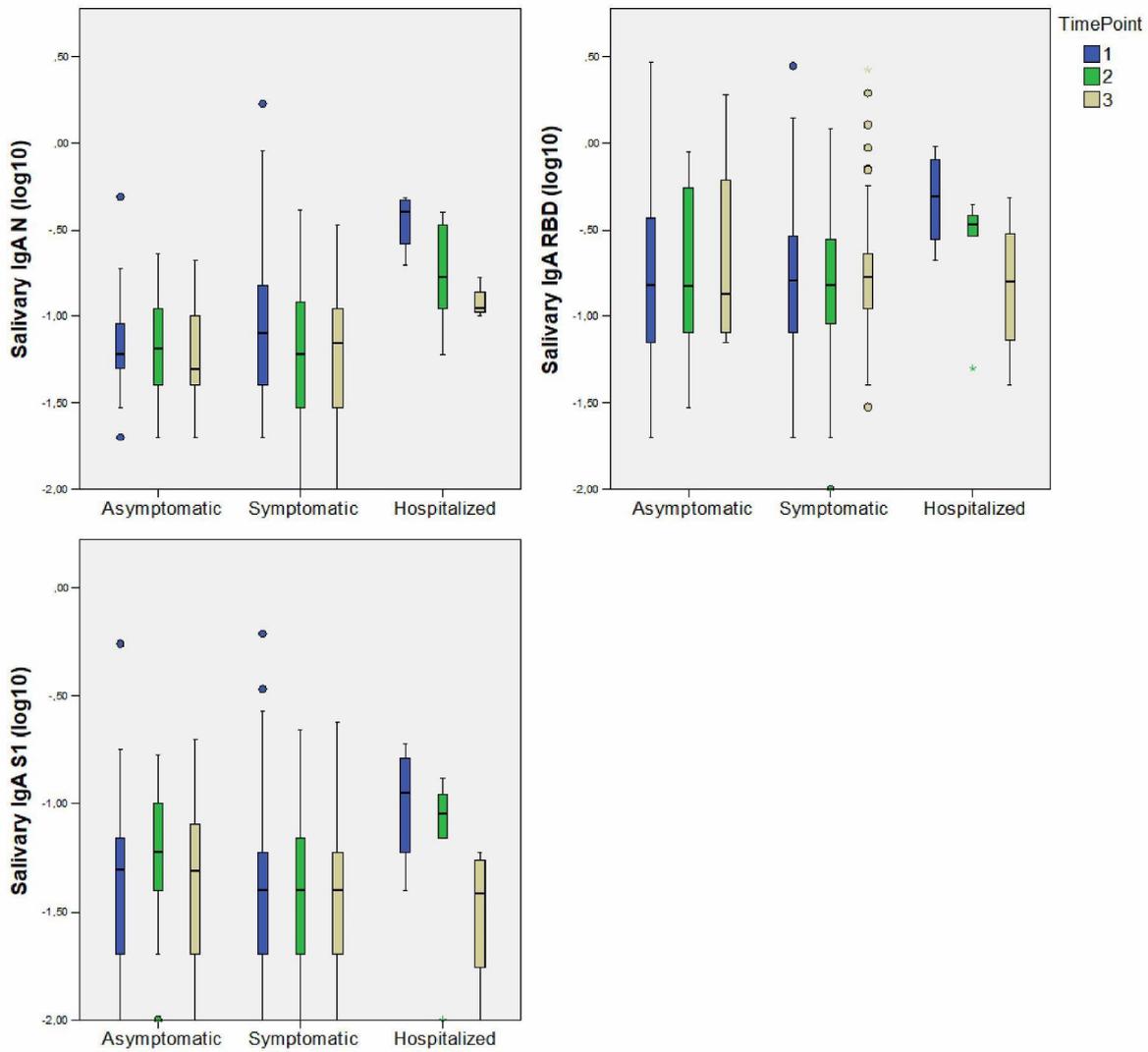
Avidity (FFX)



Previous paper: hospitalized patients have higher concentrations of antibodies
 These data suggest a lower overall avidity in hospitalized patients (green).

Graph in red box: Corrected for concentration, no difference

Salivary IgA

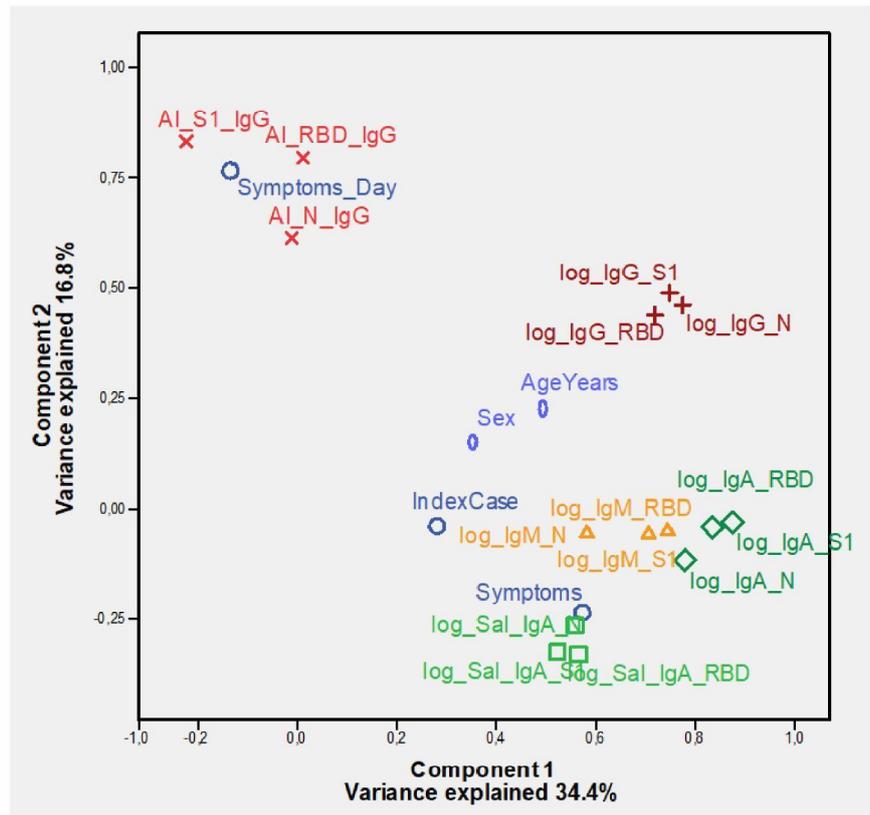


Control Panel data lacking (unknown cutoff for positivity)
 Salivary IgA is not very sensitive (tested 1:10, serum ref was used IgA)

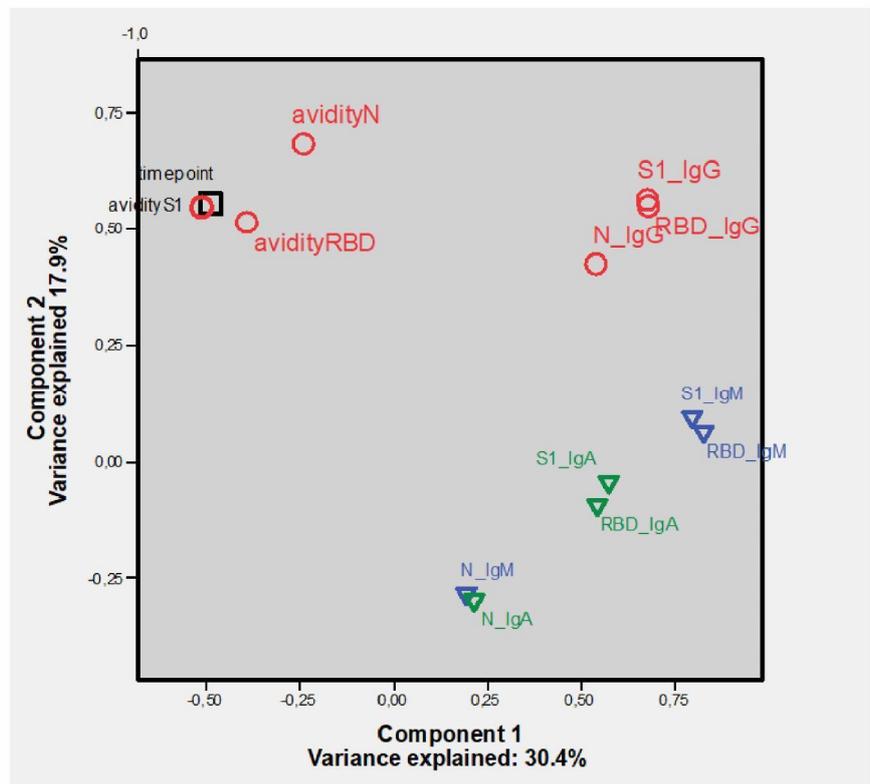
To Do: IgG

Similar clustering of sero data between FFX and PiCo

FFX



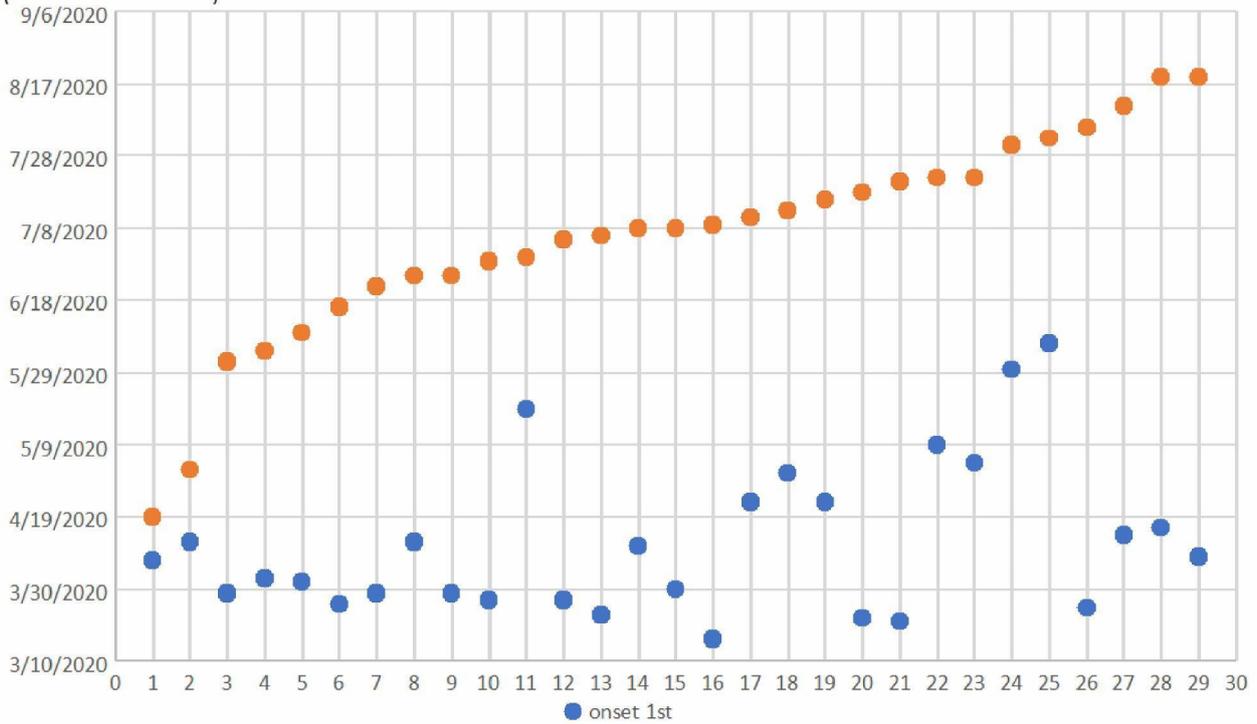
PiCo



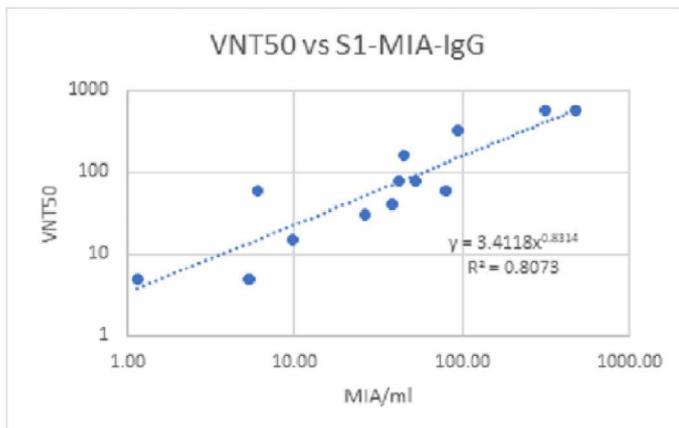
Reinfection

5.1.2e (IDS), 5.1.2e

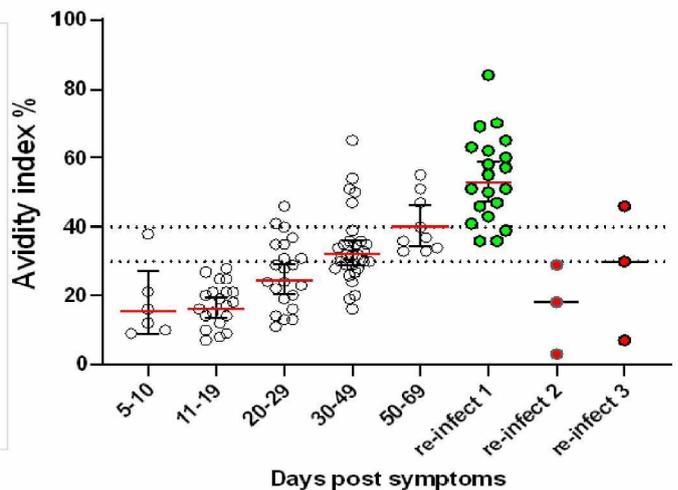
Sequence analysis results of primary and secondary infections confirms reinfection (different virus)



Correlation MIA and virus neutralization



S1 AI% ffx grouped in time



Summary

- Rapid decay of IgA (and IgM)
 - Faster decay of anti-N antibodies
 - Spike S1 IgG most persistent
 - All concentrations decrease, avidity increases
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- PiCo and FFX: Two independent studies, One message