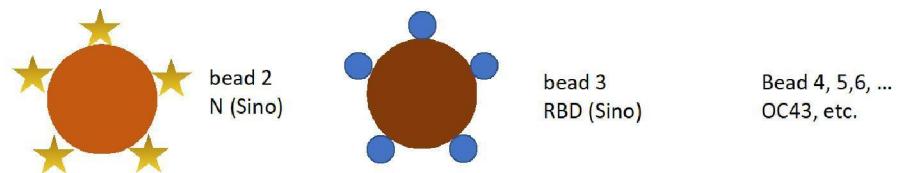


SARS-CoV-2 IgM, A, G kinetics

PiCo (PIENTER Corona)

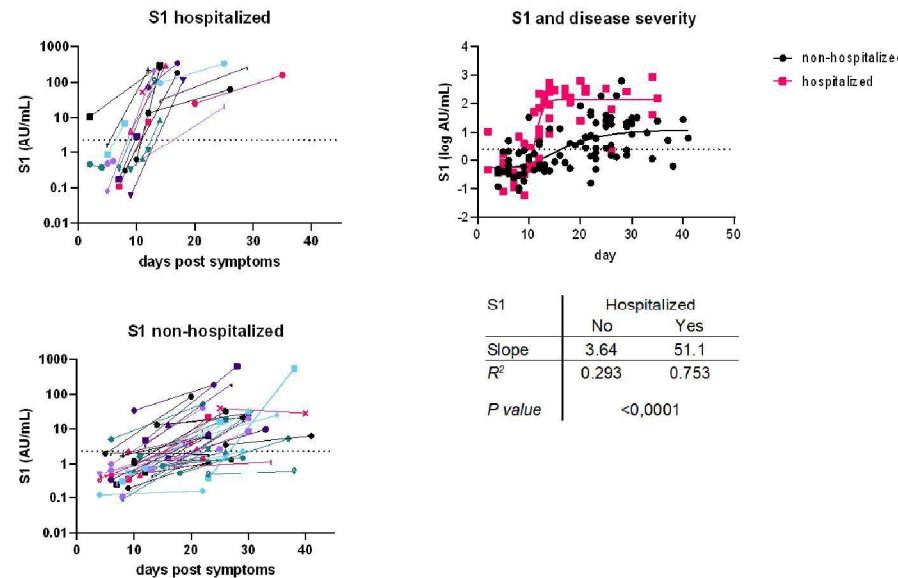
- PIENTER3 presamples
 - PiCo1, April ~ 3200
 - PiCo2 & PiCo+, June ~ 7400
 - PiCo3, October ~ ?
-
- Fingerprick blood, self-collected
 - Questionnaire

SARS-CoV-2 MIA (MBA)



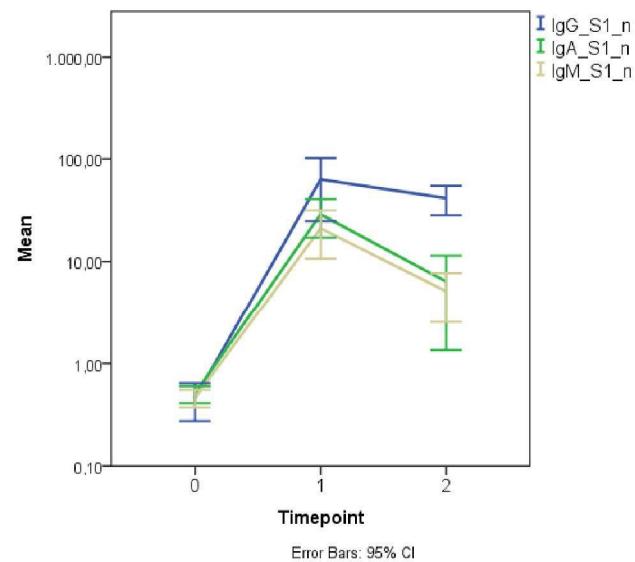
Seroconversion in relation to disease severity

- Time to seroconversion
- Concentration

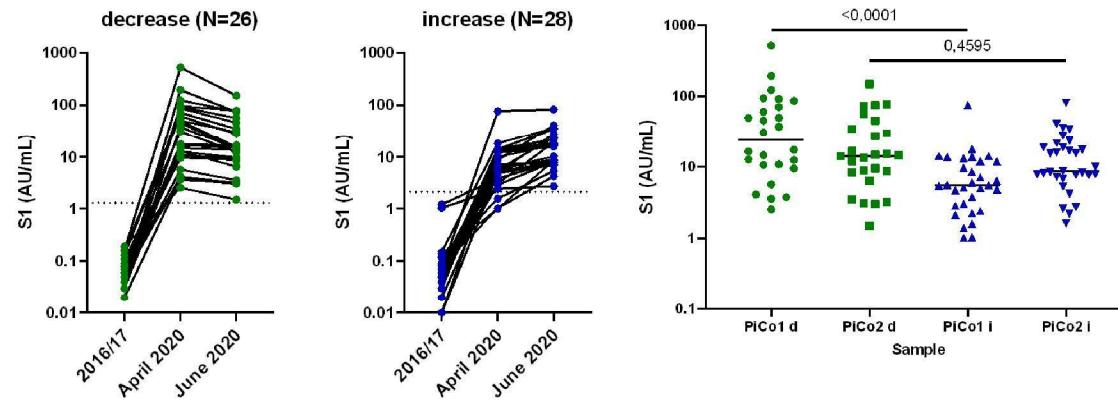


Den Hartog et. Al. *The Journal of Infectious Diseases*, jiaa479,
<https://doi.org/10.1093/infdis/jiaa479>

Spike S1 Ig isotypes

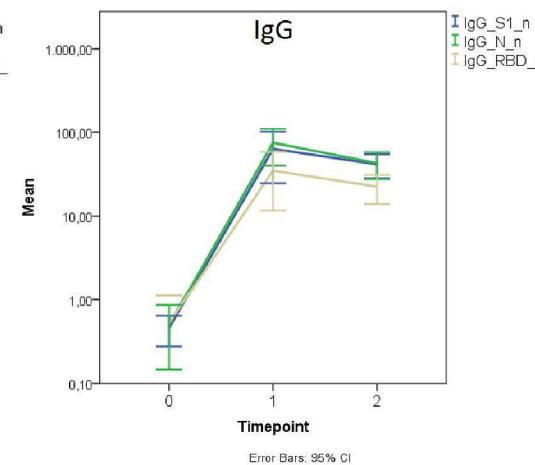
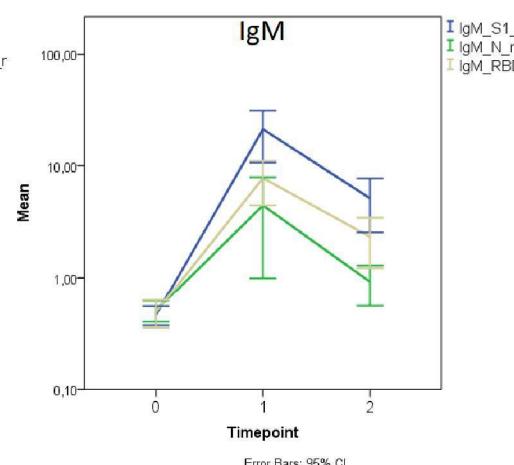
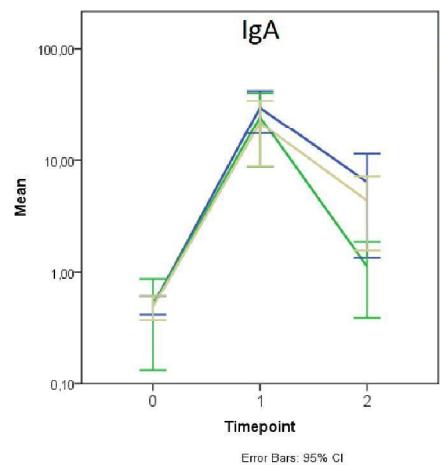


Concentrations changes (PiCo)



IgG and antibodies to S1 most persistent (PiCo)

Spike S1
Nucleoprotein
RBD



Error Bars: 95% CI

Error Bars: 95% CI

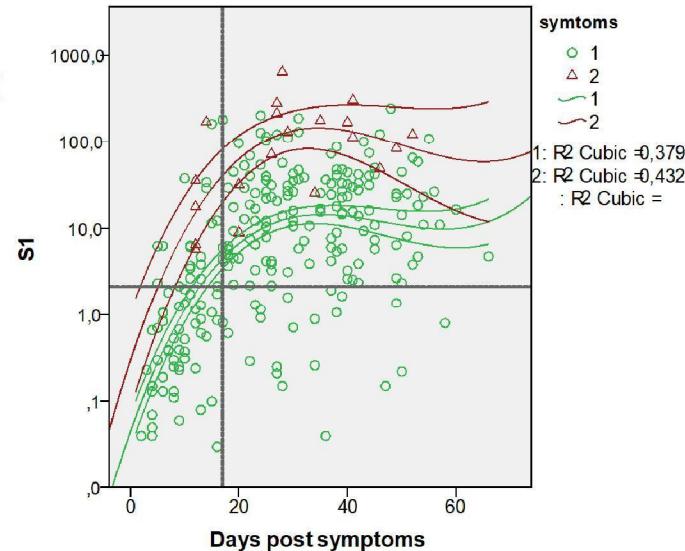
The statistics

		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

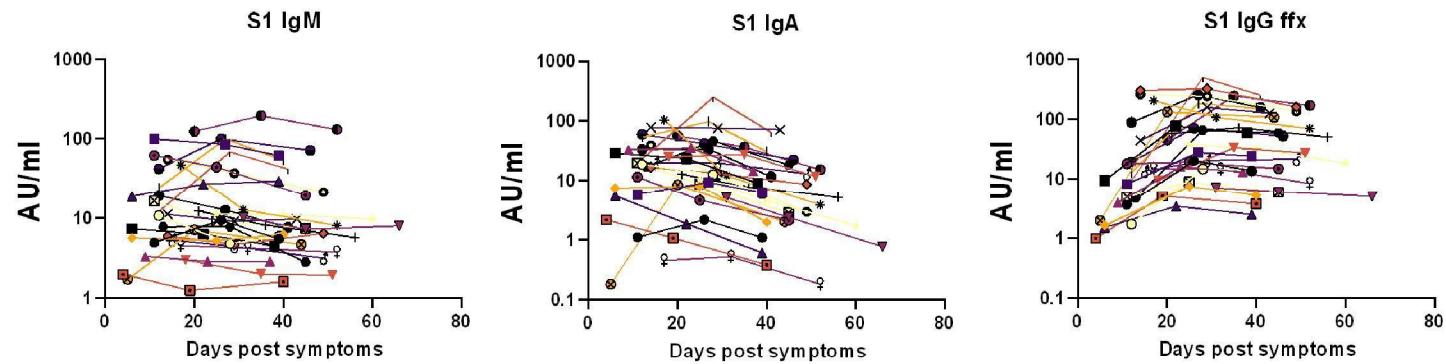
Sampling relative to time since onset of disease symptoms

- Household setting(N=95)
 - Case or linked case (case=lab confirmed)
 - Representation of mild cases
- Seroconversion before day 17

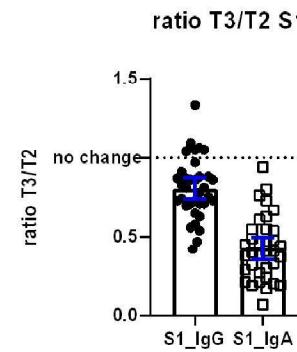
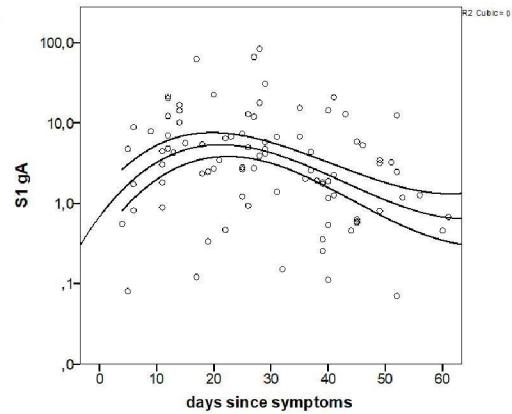
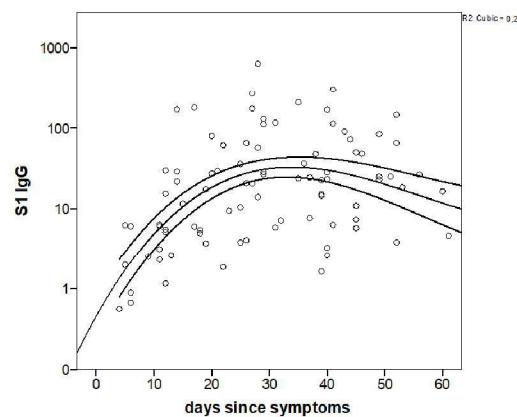
	1-16		Age group 17 >		Significance
	Mean	Count	Mean	Count	
Age	12		42		
Sex	male	14 (47%)		33 (37%)	
Days post symptoms	10		12		0.210
Index case		0		55	
Symptoms					<0.001
Asymptomatic	9 (30%)		2 (2.5%)		
Non-hospitalized	21 (70%)		71 (88.8%)		
Hospitalized	0 (0%)		7 (8.8%)		



IgM, IgA , IgG to Spike S1 kinetics (FFX)



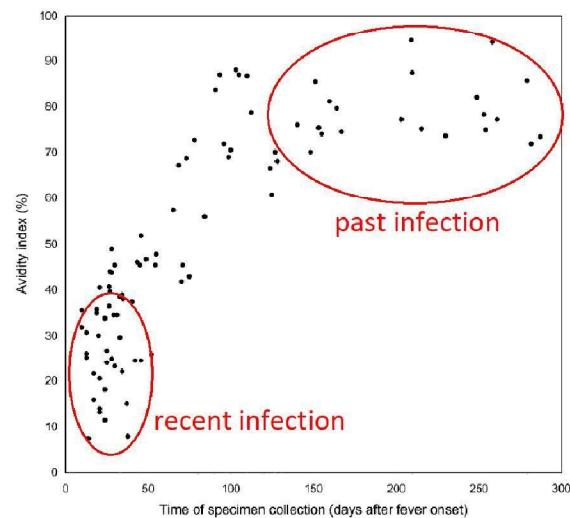
Decay rate of IgG and IgA



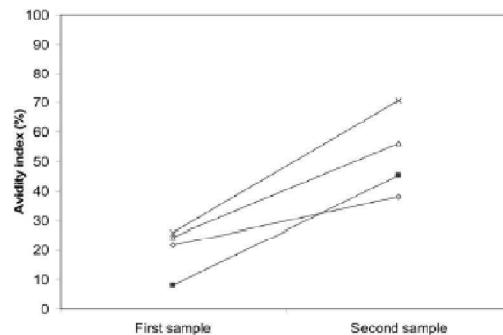
Antibody Avidity Maturation during Severe Acute Respiratory Syndrome–Associated Coronavirus Infection

The Journal of Infectious Diseases 2005;192:166–9

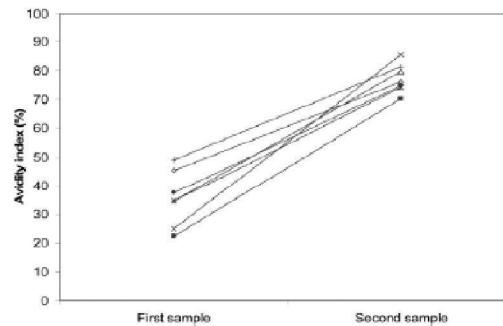
Paul K. S. Chan,^{1,2,3} Pak-Leong Lim,⁴ Esther Y. M. Liu,² Jo L. K. Cheung,²
Danny T. M. Leung,³ and Joseph J. Y. Sung¹



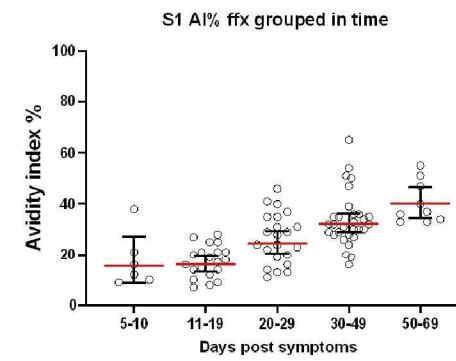
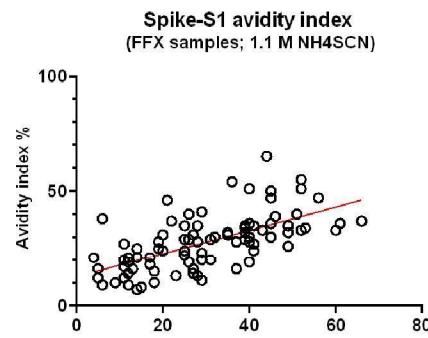
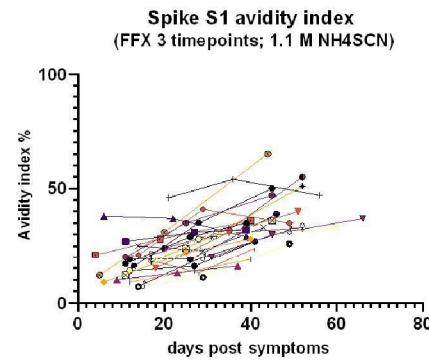
A. Paired samples collected ≤50 days apart



C. Paired samples collected 101–150 days apart



Development of avidity IgG to Spike S1



Summary

- Rapid decay of IgA (and IgM)
 - Rapid decay of anti-N antibodies
 - Spike S1 IgG most persistent
 - All concentrations decrease, avidity increases
-
- Two independent studies, One message
 - Joined effort > joined CiB-wide (EPI IDS IIV) publication?