

SINOVAC

Booster dose of CoronaVac®



科兴控股生物技术有限公司
SINOVAC BIOTECH LTD.

01

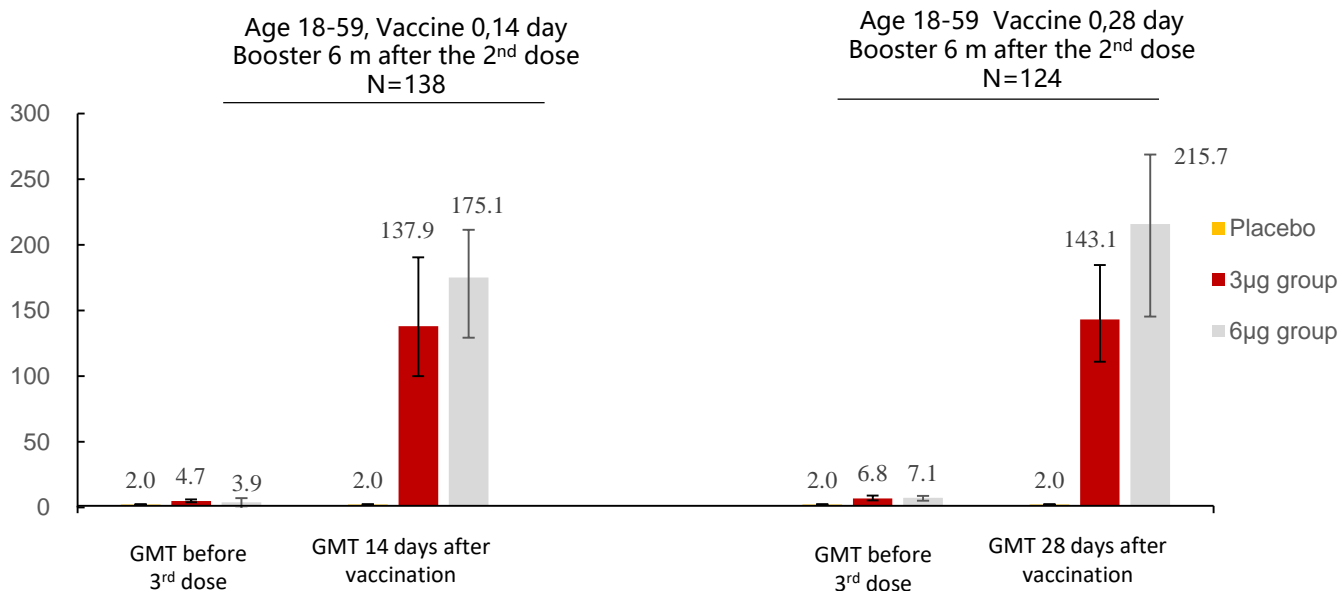
Outcomes of Clinical Trials using Booster CoronaVac[®]

Immunogenicity: Boosting 6 m after 2-dose vaccination in adults

Neutralizing antibody increased ≥ 20 times

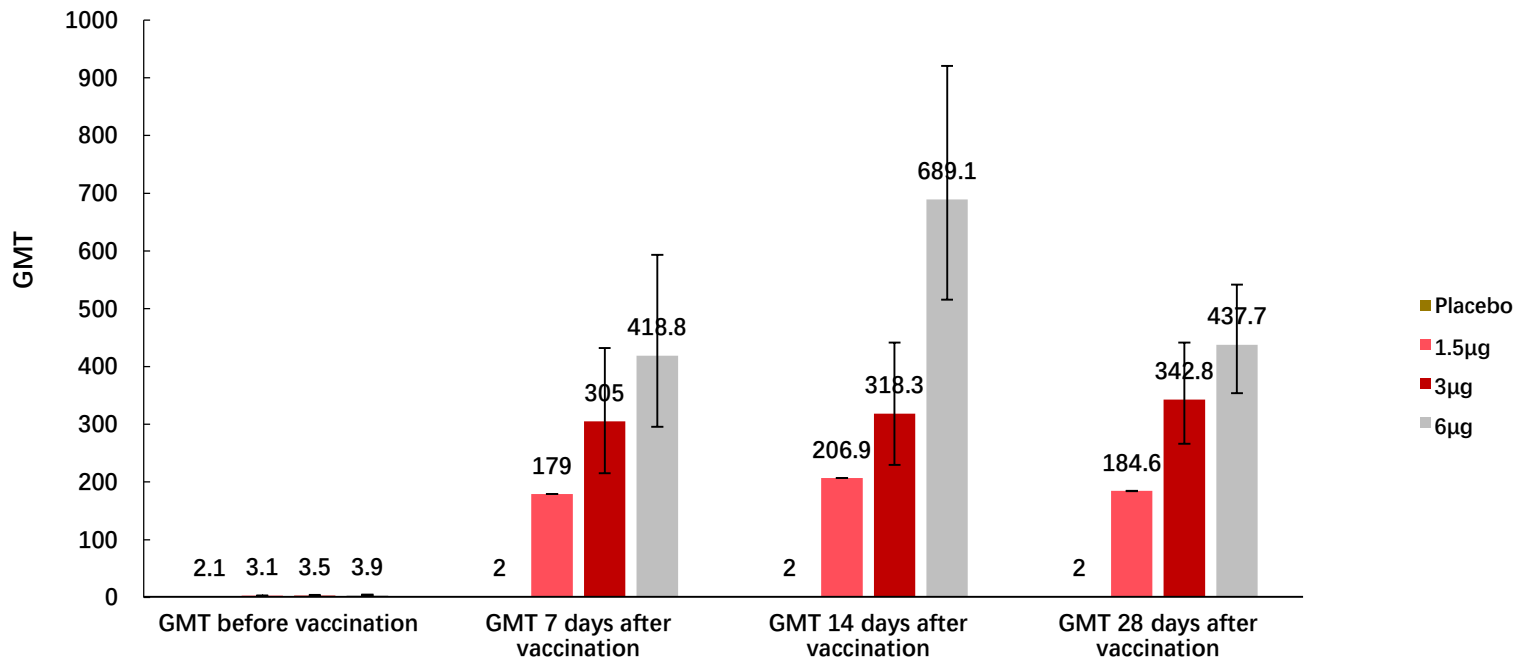
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- Adult phase 1/2 double blinded RCT
- Sample size: 262



Immunogenicity: Boosting 6 m after 2-dose vaccination in the elderly **SINOVAC**

Neutralizing antibody increased ≥ 30 times

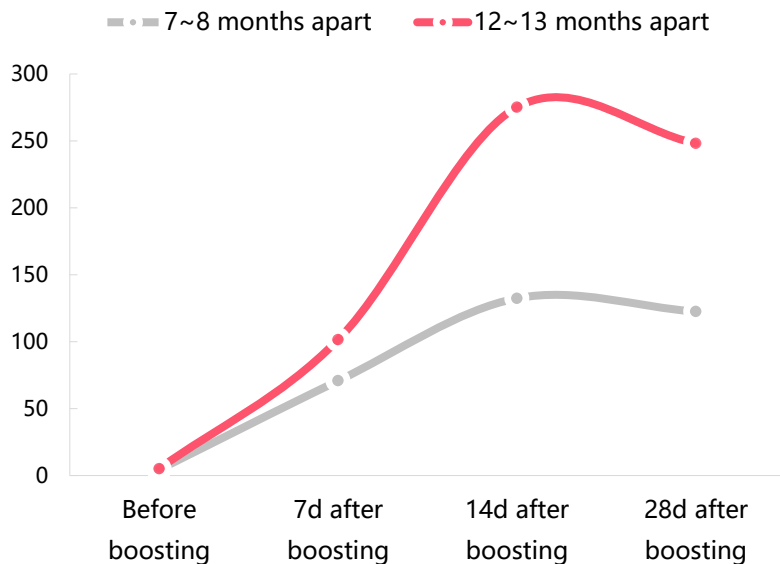


- Neutralizing antibody increased rapidly, ≥ 20 times 7 days after boosting
- Neutralizing antibody maintained 14-28 days after boosting, significant dose-response relationship

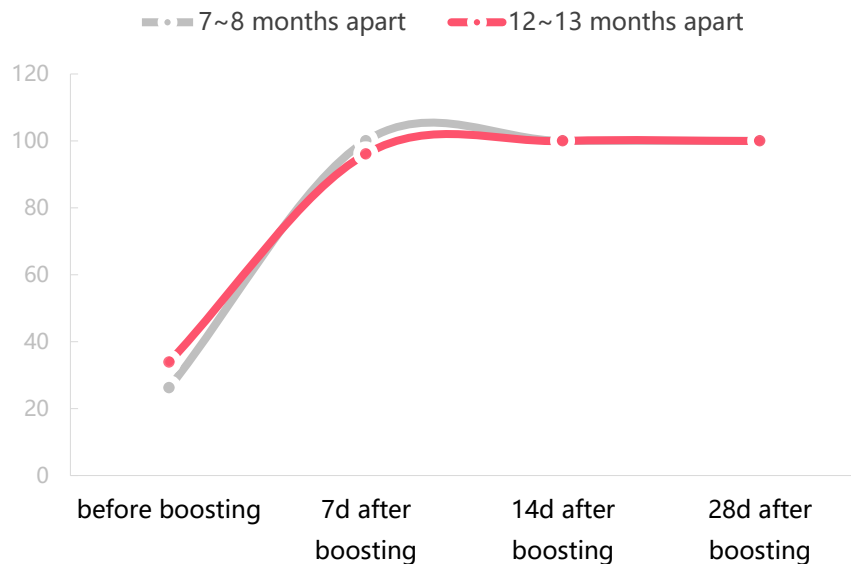
Immunogenicity: Neutralizing antibody increased rapidly, internal data from Sinovac

Interval between 2nd and 3rd dose (months)	# subjects	GMT (positivity rate %)	# subjects	GMT (positivity rate %)	# subjects	GMT (positivity rate %)	# subjects	GMT (positivity rate %)
7~8	61	4.43 (26.23)	38	70.79 (100)	24	132.47 (100)	57	122.49 (100)
12~13	33	5.09 (33.96)	25	101.42 (96.15)	29	275.16 (100)	40	248.09 (100)

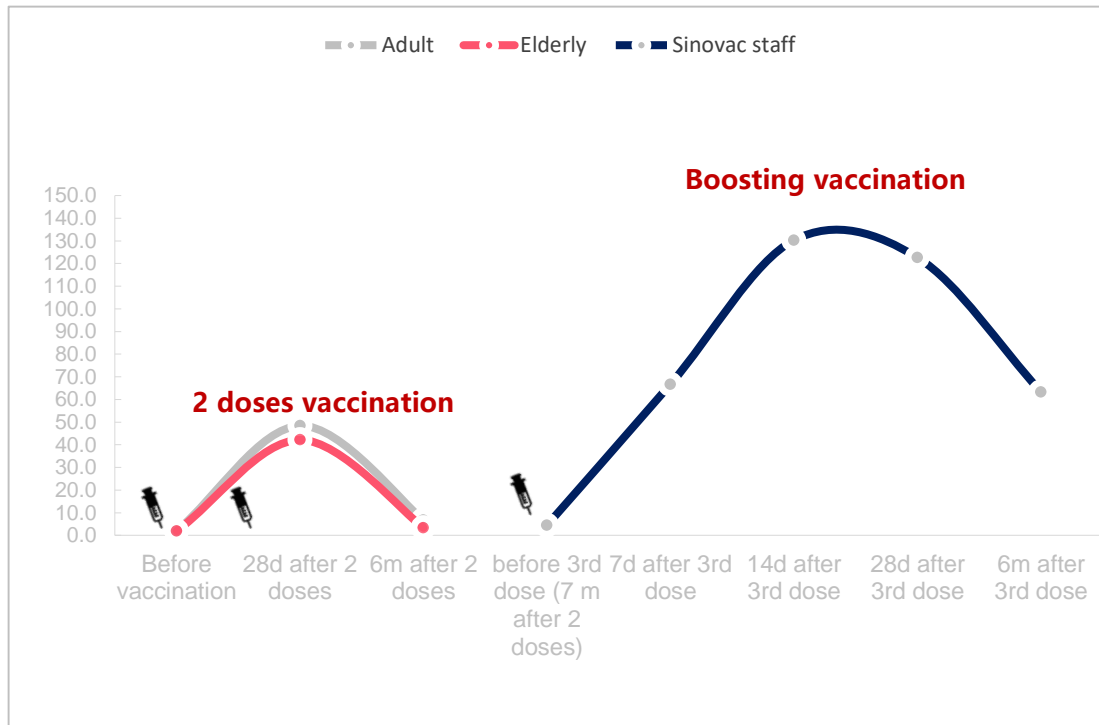
GMT



Seropositivity rate % ($\geq 1:8$)

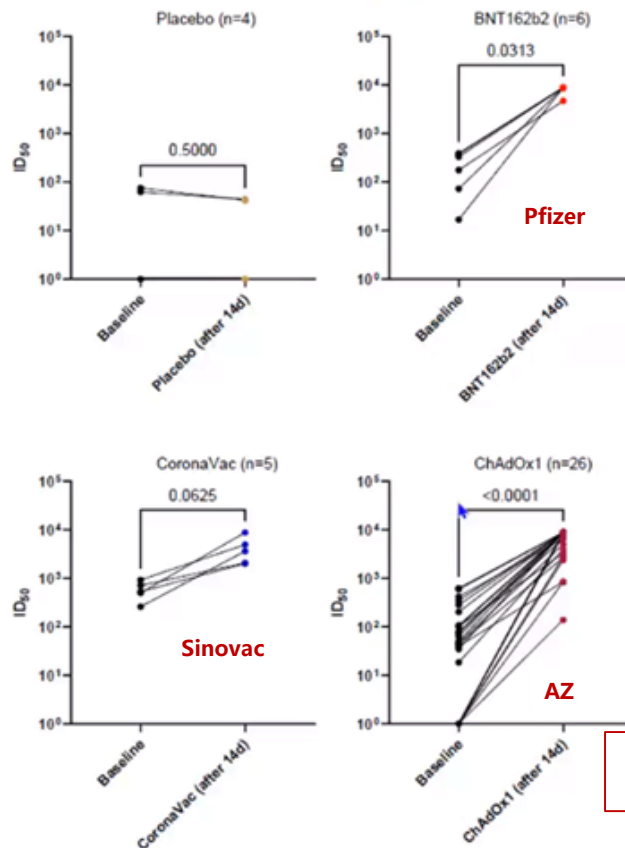


Persistency: GMT 6 moths after 3rd dose higher than the peak after 2nd dose



- Antibody level declined to a low level 6 months after 2nd dose
- Antibody level declined but remained a relatively high level 6 months after the boosting dose

Immunogenicity: (Chile) Sinovac/Pfizer/AZ boosting vaccine, Antibody level increased substantially



Chile, REFUERZO Project

Sinovac
CoronaVac

Pfizer
BNT162b2

AZ
ChAdOx1

3rd dose Vaccination

Antibody level (median infectious dose, ID₅₀) increased significantly, compared to baseline (pre-vaccination), reach to 10³~10⁴ (ID₅₀)

3 vaccines all can induce strong immune memory response

Many countries are now implementing booster dose, Turkey progressed fast

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Turkey

Half million vaccinated



Indonesia

**Start vaccination,
About 1,000
vaccinated**



Dominica

**Start vaccination,
3rd dose mainly
Pfizer but will do
Sinovac soon**



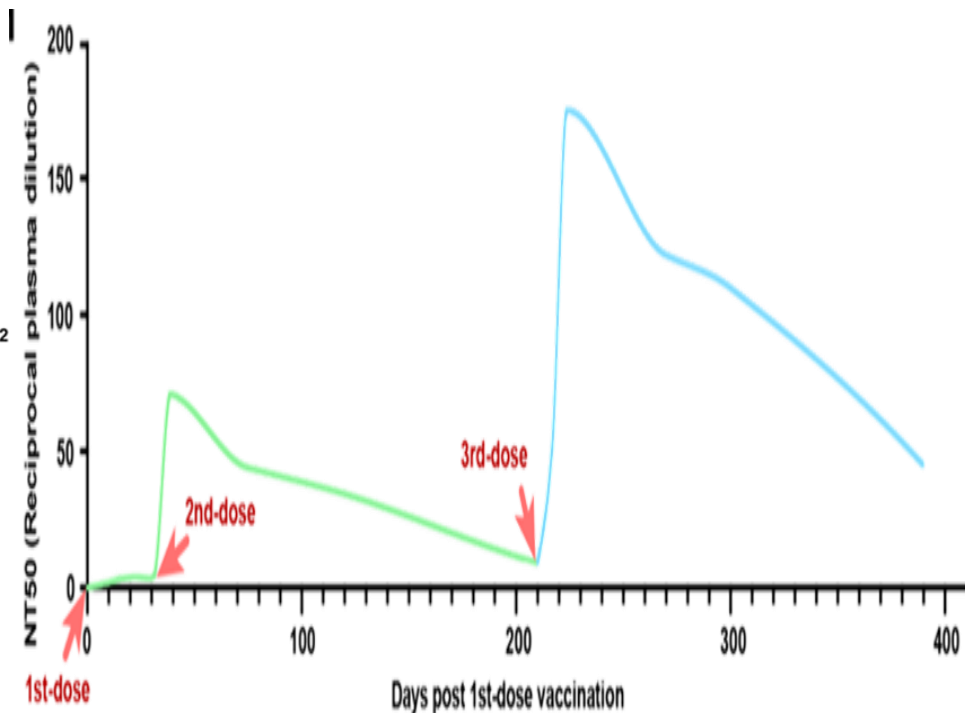
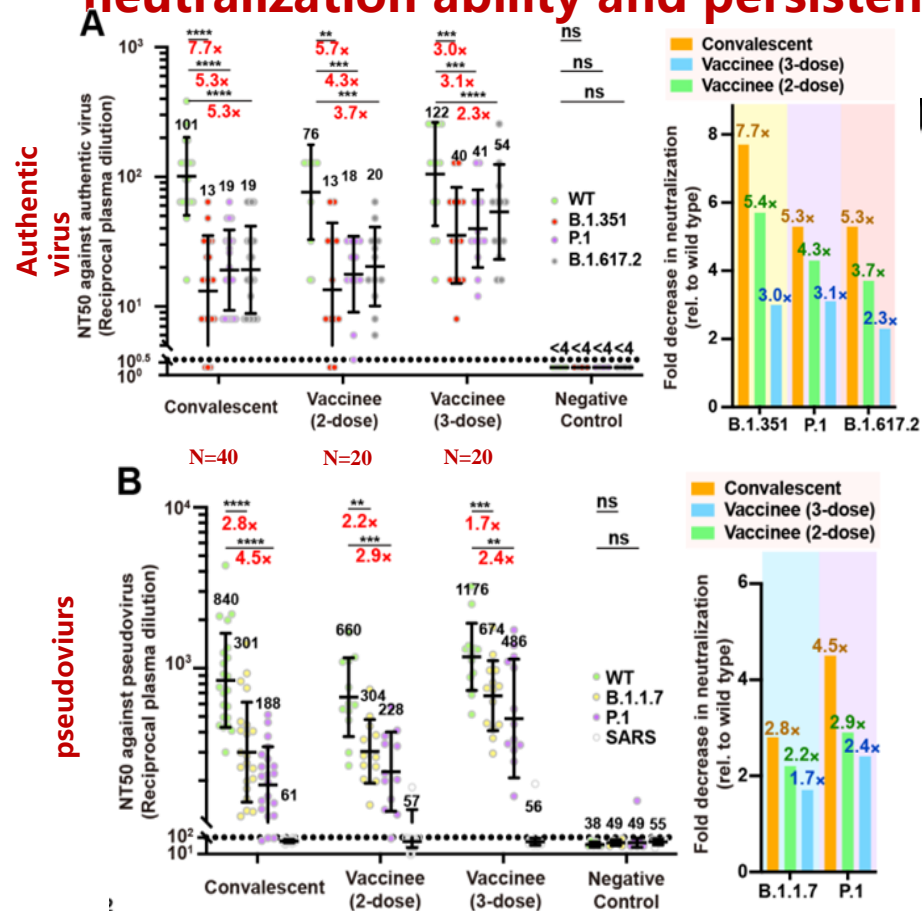
China

**Beijing, 3-6
months apart,
576, Vaccinated
No SAE**

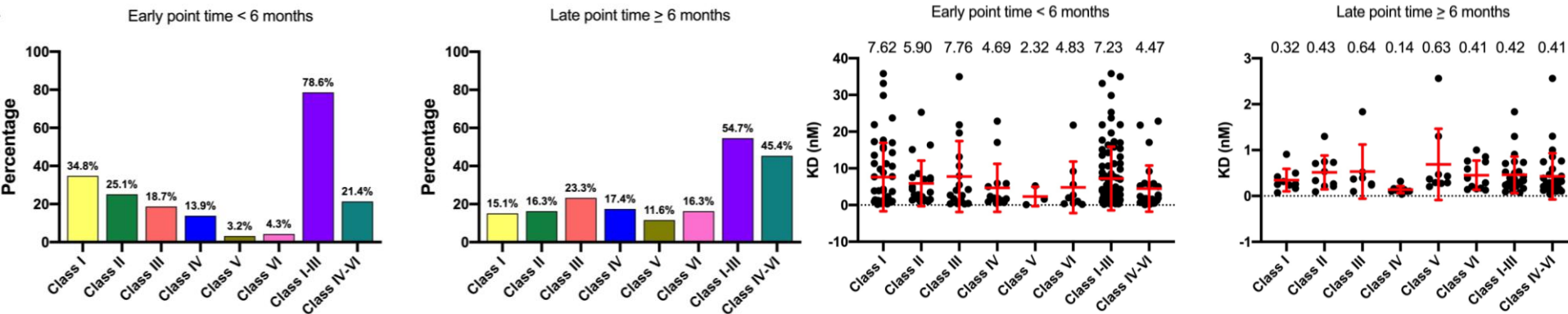
02 Immune mechanism research of ConoraVac® 3rd dose

Chinese Academy of Sciences/Peking University/National Testing Center/Sinovac

CoronaVac® Serological analysis after 3rd dose: better cross neutralization ability and persistence



CoronaVac[®] after 3rd dose: broader neutralizing antibody spectrum



- Compared to 2 doses of CoronaVac, 3rd dose induced more comprehensive types of neutralizing antibody
- Compared to 2 doses of CoronaVac and early phase of natural infection: the spectrum of neutralizing antibody spectrum by the 3rd dose has changed (the proportion of IV、V、VI RBD antibody increased , broader spectrum) and the higher somatic mutation rates