"To ignore the impact of the C-19 mass vaccination experiment on the evolutionary dynamics and the immunobiology of SARS-CoV-2 is a poor way to proceed"

"Omicron now causes fast & large-scale immune escape in vaccinees: Last call for action!"

DOUBT IS THE BEGINNING OF KNOWLEDGE"

Siena, 19 October 2022

G. Vanden Bossche, DVM, PhD

https://www.voiceforscienceandsolidarity.org/

It is five past twelve:

My last and desperate call for action as Omicron now causes fast & large-scale immune escape in vaccinees

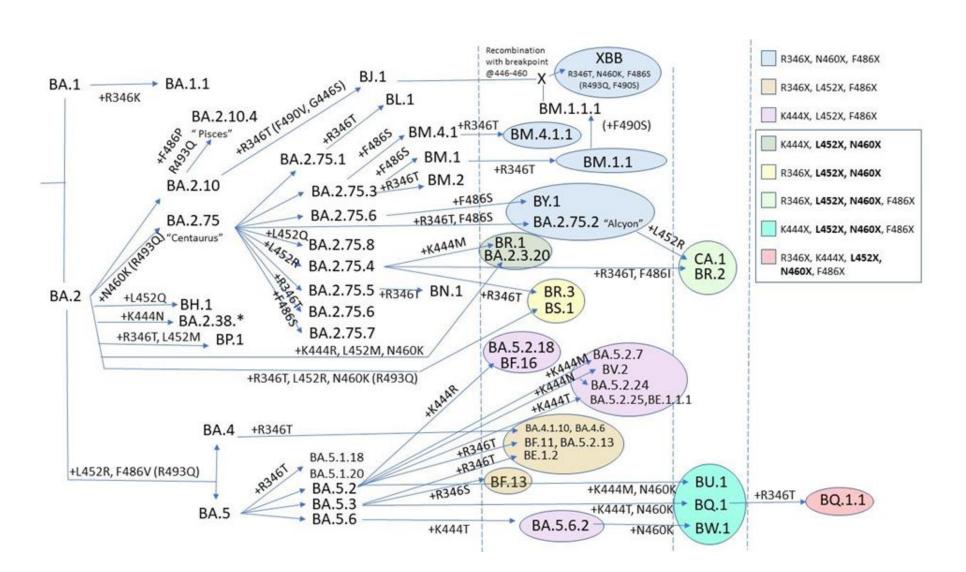
Why are *mutational escape researchers* not ringing the alarm bell?

There is no greater impotence in all the world like knowing you are right and that the wave of the world is wrong, yet the wave crashes upon you. — Norman Mailer

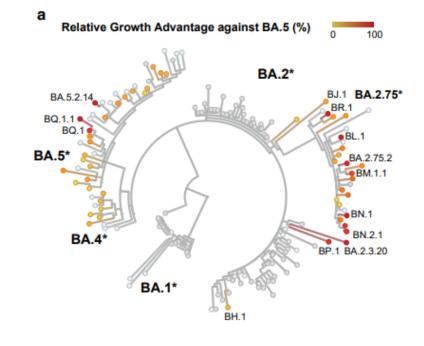
Even scientists can contract willful blindness....

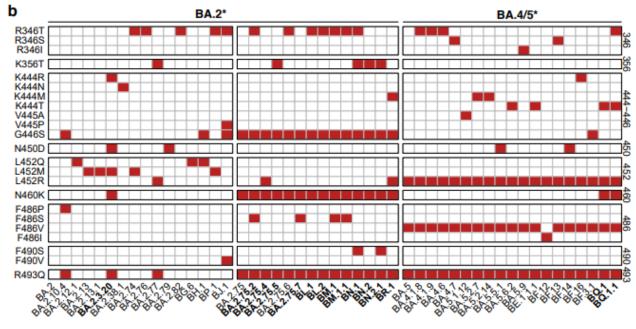
- Fulminant immune escape is great food for publications for 'variant spotters'
- DMS, neutralization assays and ACE2-binding assays document the impact of amino acid mutations on receptor-binding affinity (≅ infectiousness) and immune escape from Ab neutralizing capacity (sera & mAbs & Ab drug cocktails)
- Nobody sees the forest for the trees (as they don't seem to understand the
 underlying immune interaction between the virus and the immune system) but all
 agree that convergent evolution of worrisome variants and resulting
 immune escape is due to immune selection pressure placed on the virus
- However, nobody dares to mention that this immune selection pressure has become more and more obvious as vaccine coverage rates were growing and that changes to the mutational landscape are now only escalating
- On the contrary: Scientists excelling in this molecular stamp collection are advocating for the development of broad-spectrum vaccines and Ab drugs!

SARS-CoV-2 surveillance: An addictive exercise in molecular stamp collection....



SARS-CoV-2 surveillance: An addictive exercise in molecular stamp collection.....



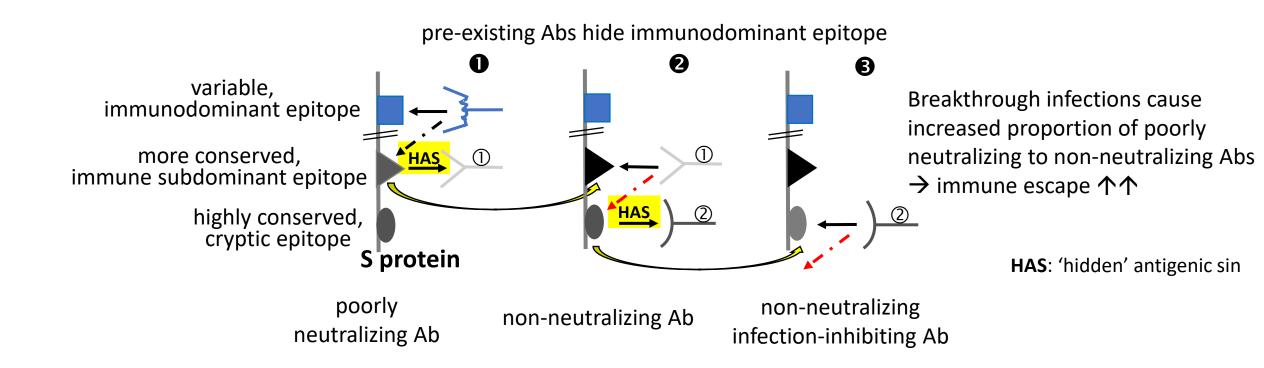


Personalized stamps....

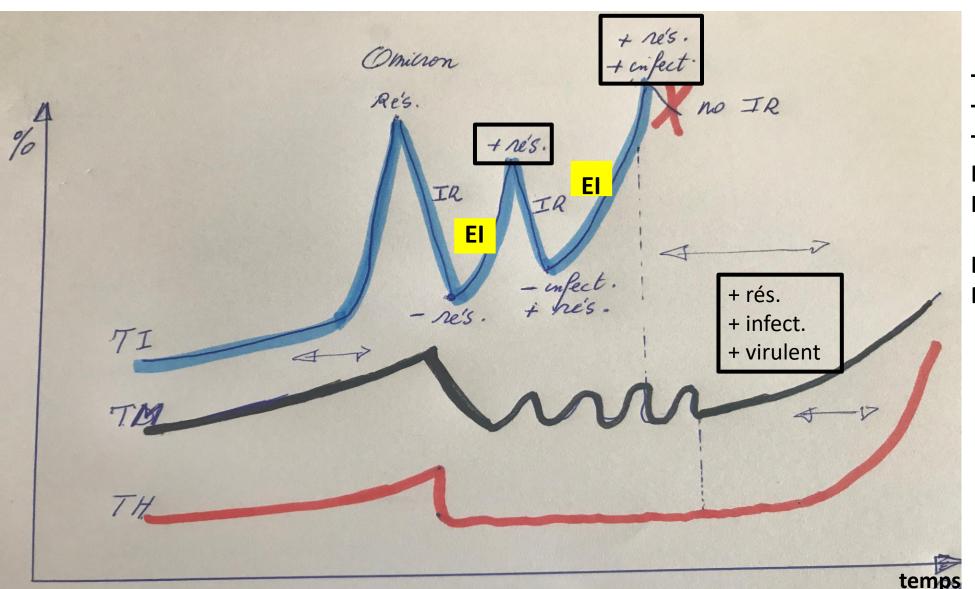
Pango lineage	Nickname	Comments
BA.2.75	Centaurus	Father of centaurs
BA.2.75.2	Chiron	King of centaurs
BJ.1	Argus	100-eyed giant
BA.2.3.20	Basilisk	Giant serpent
BQ.1	Typhon	Snake creature, father of Cerberus
BQ.1.1.	Cerberus	Three-headed dog, guards Hades
XBB	Gryphon	Body of lion, head of eagle
BM.1.1.1	Mimas	Giant

Immune refocusing expedites immune escape in vaccinees by reorienting the immune response to antigens (Ags) that recall antibodies (Abs) with less neutralizing capacity

• Immune refocusing occurs when immune system is confronted with an Ag in the presence of pre-existing Abs targeted at a similar (but not identical) Ag (in case of vaccine breakthrough infection or disease) or at a different form of the same Ag (in case of vaccine boosters in previously mrna vaccine-primed persons)



Immune refocusing enhances immune escape



TI: infection rate

TM: morbidity rate

TH: hospitalization rate

Infect.: Infectiousness

Rés: Resistance to neutralizing

antibodies

IR: immune refocusing

EI: immune evasion

When stupidity turns into lies....

- ICU: no relevant increase in Covid-19 cases
- Hospitalizations because of Covid-19: increase is not alarming
- Herd immunity? Great! Thanks to vaccines + subsequent boosting by Omicron!
 We'll soon go endemic!
- What about new emerging variants derived from BA.2 et BA.5?
 We'll tame them thanks to updated Omicron vaccines!
- What about immunity upon post-vaccination infection or post-infection vaccination? Hybrid immunity is the best of the best!

So let's move ahead with C-19 vaccination!

But how to reconcile all this with high infection rates, viral resistance to neutralizing Abs and fulminant increase of new emerging variants?

The weakest point in the narrative? The science!

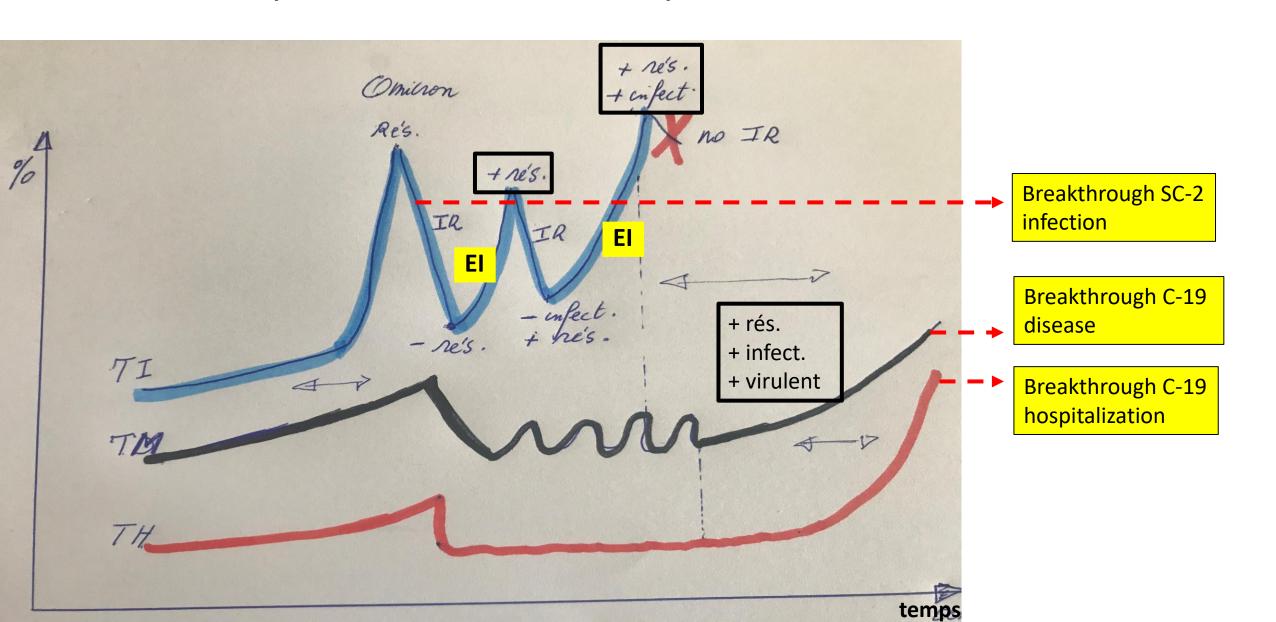
- One cannot tame a viral pandemic without dramatic reduction of the viral transmission rate
- One cannot diminish the viral transmission rate without generating herd immunity
- One cannot generate herd immunity without generating natural immunity
- However, vaccines have exactly the opposite effect:
- they don't generate herd immunity and hence,
- The infection rate dramatically increases

How is this possible?

The increase in infection rate is due to the mass vaccination program. Why?

- Mass vaccination promotes viral immune evasion
- Mass vax therefore promotes natural selection of more infectious variants
- To further augment their infectiousness, new emerging variants incorporate mutations that confer resistance to vaccine-induced neutralizing Abs
- Omicron is now even expediting immune evasion (instead of boosting vaccine-induced immunity Omicron refocuses the immune response!)
- The emerging variants become eventually highly infectious, fully resistant to vaccine-induced neutralizing Abs!
- Only non-neutralizing Abs protect against severe/ systemic Covid-19 disease
- SARS-CoV-2 will adapt to the host's immune defense in ways that prevent these Abs from inhibiting *trans* infection (responsible for causing severe/systemic disease). Resistance to these Abs will now **facilitate enhancement of severe C-19 disease!**

CON-séquence... de l'expérimentation

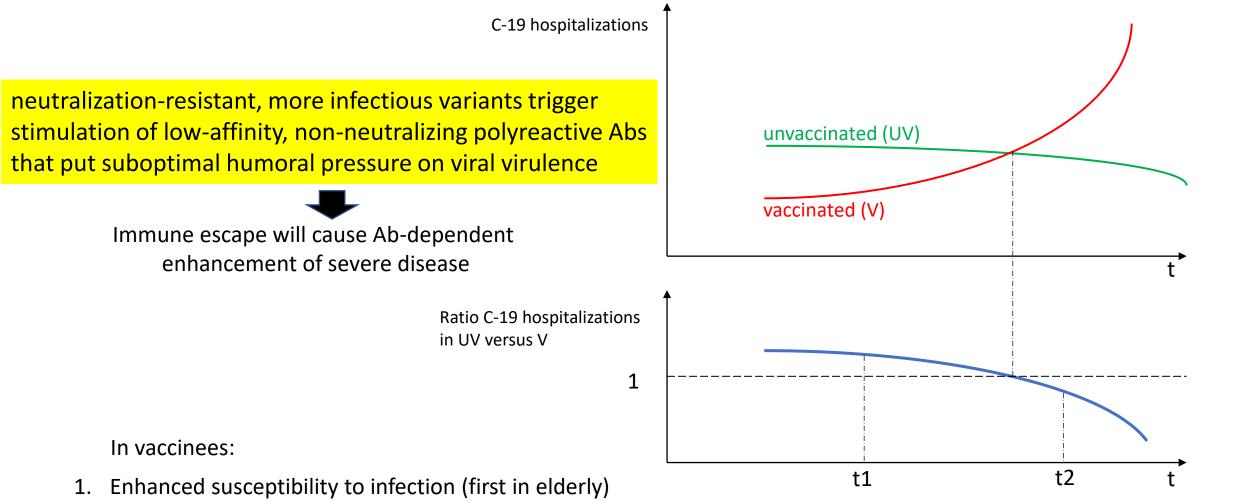


Dear Professor, where is your scientific rationale?

(re: Omicron-adapted vaccine?)

Pluses	Minuses
First updated vaccine since 2020	No specific human neutralizing antibody data
Matches current BA.5 wave and current related variants (BA.4.6)	Unknown if it will have better clinical outcomes than original booster
Made at scale in ~2 months, fulfilling mRNA promise	May add to booster hesitancy, lack of uptake, only 32% of population
Relies on flu vaccine updating strategy from mice data used for decades	SAR-CoV-2 is not influenza
Prior human data for immune response to BA.1 and Beta variants	Potential of imprinting to diminish effect, would BA.5 monovalent vaccine be better?
Shows agility of FDA	Lack of input by VRBPAC
Potential to lessen infections and transmission	May not impact infections and transmission

How will consequences of enhanced immune escape in vaccinees evolve?



Enhanced susceptibility to C-19 disease (first in elderly)

Enhanced susceptibility to severe C-19 disease (first in elderly)......

It's 5 past 12 o'clock in highly vaccinated countries: My desperate call for taking drastic & immediate action

- Avoid immune refocusing ⇔ No new (i.e., Omicron-updated) booster doses!
 - Avoid vaccine breakthrough *disease* ⇒ ↓ infection rate (will avoid recall of less neutralizing Abs)
- Further reduce infection rate to avoid vaccine breakthrough infection
 - (will avoid recall of obsolete previously vaccine-induced neutralizing Abs)
- Train innate cellular immunity



Train pathogen-nonspecific NK cells

build Herd Immunity (HI) (required to terminate pandemic!)

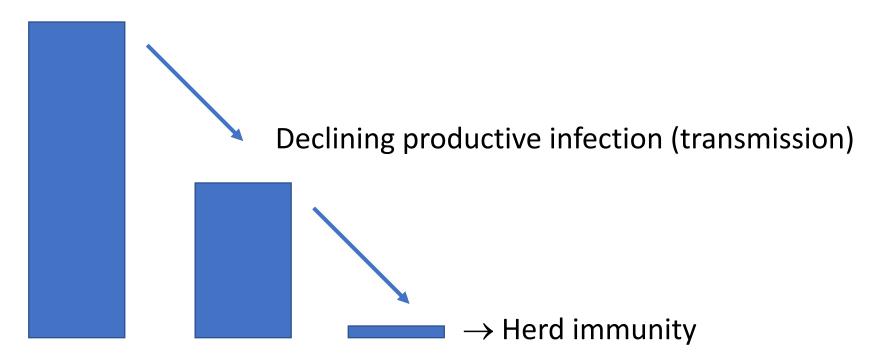
- -Vaccinees: Prophylaxis with safe & effective, broadly accessible & affordable antivirals
- -Unvaccinated: healthy lifestyle

HI fully achieved when no longer severe C-19 disease cases

(⇔ no longer breakthrough infections!)

Only Herd Immunity can terminate this pandemic!

HI can only be achieved by reduction of productive infection (transmission):
 Either via enhanced virulence in vaccinees or antiviral chemoprophylaxis of vaccinees

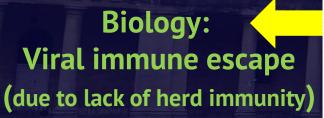


- Quid side effects and all-cause mortality rates in vaccinees?
- Quid early treatment? 'Too little, too late' because of infection-enhancing mutations!
- Quid updated Omicron-adapted vaccine? Will only enable or enhance immune refocusing in unvaccinated or vaccinated, respectively

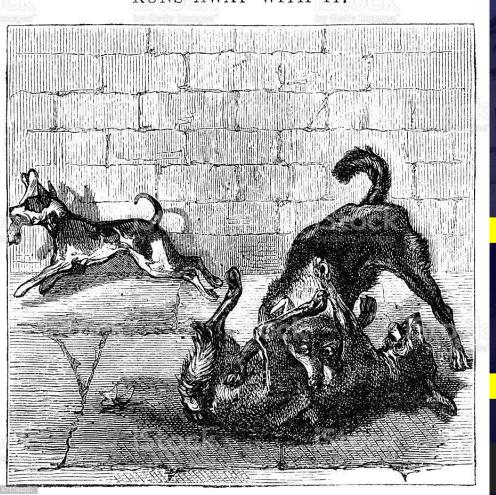


Better Way Lack of herd immunity will Conference eventually stop 'herd' psychosis

TWO DOGS FIGHT FOR A BONE, AND A THIRD RUNS AWAY WITH IT.



Africa will win the C-19 battle!!



Stakeholders of mass va & technogracy: - Narrative - 'Herd' psychosis Stakeholders of 'One Health' & solidarity:

- Passion for the truth

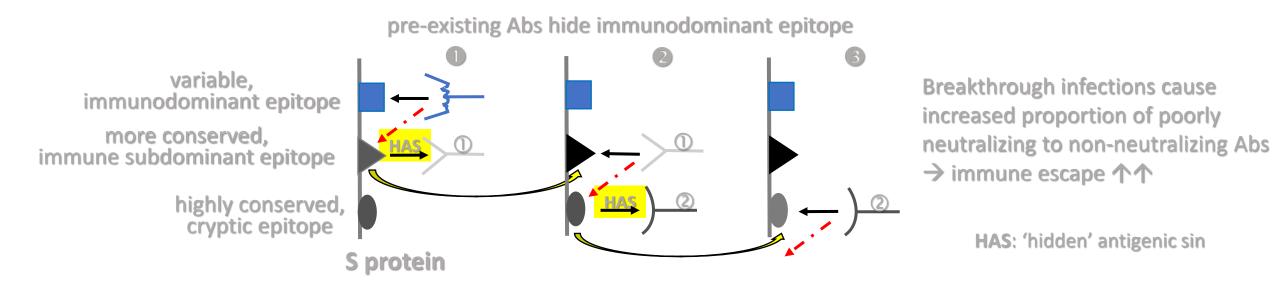
- Independent critical thinking

Thanks for your attention

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- Emerging Omicron variants are putting themselves under growing immune pressure by recalling vaccine-induced Abs with decreasing neutralizing capacity 0
- This is now promoting converging RBD mutations enabling enhanced infectiousness

References

- Breakthrough disease sidelines Ag-presenting system but conserved antigenic site within S-NTD does not need APC since Th-independent Ag
- https://www.nature.com/articles/s41586-021-03925-1.pdf Lectins enhance SARS-CoV-2 infection and influence neutralizing antibodies
- See my presentation on glycans: <u>https://www.voiceforscienceandsolidarity.org/scientific-blog/predictions-gvb-on-evolution-c-19-pandemic</u>
- Monitoring the rapidly evolving epidemiological landscape and newly emerging variants is of high importance for guiding vaccine adaptation programs
- Definition of virulence