Can Omicron Cause "White Lung"?

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Sequence Source:	NCBI GENBANK https://www.ncbi.nlm.nih.gov/sars-cov-2/
Software:	GENEIDO 1.0
Function:	Pathogen genome analysis and symptom prediction from Rivermap Research & Consulting LLC
URL:	www.rivermapsolution.com

Recap:

1. Type S1, S2 and S3 had been renamed to GENEIDO Types GT-S1, GT-S2 and GT-S3. Detail symptoms associated with each type are listed in "***There are THREE COVID-19 Out There? COVID-19 Strains Comparison & Symptoms Prediction***", February 6, 2020. (Please find the latest version at https://rivermapsolution.com/Sample-Reports/Comparison-S1-S2-S3-041520.pdf)
2. The previous report, "***Omicron: from Mild Flu to Full Bloom COVID?"*** https://rivermapsolution.com/Sample-Reports/Omicron-Flu-FullBloom.pdf , released on February 9, 2022, showed that Omicron strains submitted by US and Japan contains all THREE GENEIDO types which indicates Omicron may create all COVID-19 symptoms that involve lung, brain, CNS, heart, kidney etc.

Summary:

Qn1: Would Omicron cause “White Lung”?

Answer: YES.

Qn2: What is “White Lung”?

Answer: Fluid accumulation (lung edema) or scar tissues in the lung cause x-ray image to look white.

Qn3: Where can I see these symptoms on the HUE Chart?

Answers:

1. As shown in Fig 1, if the black curves climb up to the top of the Earth Layer (as pointed by the yellow arrows), the fluid accumulations may occur. GT-S1 and GT-S2 can cause that.
2. IF the purple and red curves are on top of the Earth Layer (as pointed by the blue arrows), scar tissues and inflammation may occur in the inner linings of Lung, respiratory and digestive tracts. GT-S2 and GT-S3 can cause that.
3. In the case of GT-S3, when red and black curves are rising together to the top of the Earth Layer (as pointed by the green arrow), pus maybe formed.

Qn4: Which one cause the “White Lung” symptom in December 2022 in China?

Answer:

1. The SARS-CoV-2 genome sequences China submitted to NCBI in December 2022 are all type GT-S2 except one. Please see Table 2 below. Having said that, I do notice that the sample size is very small.
    a. However, there is an “odd” one (GENBANK ID: OL549280.1) that was submitted at the same period (12/16/2022) but collected on 12/31/2019. This strain is type GT-S3.
2. Note that although GT-S2 and GT-S3 both can cause the so called “White Lung” symptom, GT-S2 “White Lung” is due to fluid accumulation and some scar tissues, where GT-S3 “White Lung” is mainly due to the scar tissues and inflammation. Later, pus accumulation may occur in the lungs of GT-S3 patients.

Qn5: The first Omicron strain from South Africa is also type GT-S2, how come we didn't hear about the "White Lung" symptom?

Answer:

1. TCM factors in all possible influences for a disease such as weather, the patients' body constitution, food, etc.
    a. Things we know:
        i. Warm environments can cause our temperature to rise
        ii. Young and strong people have more Yang energy and therefore have higher body temperature than the elderlies and physically weak people
        iii. Elderly and physically weak people are often Yang deficient
        iv. Both COVID-19 outbreaks in China (2019 and 2022) are in winter – the weather is cold
        v. Omicron started from South Africa, the weather is warm
    b. Here are some hypothetical scenarios:

        Symbols used below:

        - +: increase body temperature
        - -: decrease body temperature

i. GT-S2 plus warm weather affecting strong people: high fever

GT-S2	Warm weather or environment	Young & Strong people	Result
H: +	+	+	+++
U: -	+	+	+
E: -	+	+	+

Table 1a

ii. GT-S2 plus warm weather affecting elderly people: mild symptoms

GT-S2	Warm weather or environment	Elderly and weak people	Result
H: +	+	-	+
U: -	+	-	-
E: -	+	-	-

Table 1b

iii. GT-S2 plus cold weather affecting young people: mild symptoms

GT-S2	Cold weather or environment	Young & Strong people	Result
H: +	-	+	+
U: -	-	+	-
E: -	-	+	-

Table 1c

iv. GT-S2 plus cold weather affecting Elderly People: severe lung symptoms with accumulation of fluid

GT-S2	Cold weather or environment	Elderly & weak people	Result
H: +	-	-	-
U: -	-	-	---
E: -	-	-	---

Table 1d

2. The original Omicron situation in South Africa can be explained by Table 1a; where the China cases in 2022 can be explained by Table 1c and Table 1d.

Conclusion

1. Omicron covers all THREE GENEIDO types, GT-S1, GT-S2 and GT-S3. We had seen that in the last report (**Omicron from Mild Flu to Full Bloom COIVD? 2/9/2022**). The analysis was done based on NCBI data from submittedd from US and Japan in January 2022.
2. All GENEIDO types can create the so called “White Lung” symptom, wheather it is due to accumulation of fluid, pus, or scar tissues.
3. The reason why Omicron did not show lung symptoms in South Africa is explained in Table 1a and 1b; warm weather is the key factor.
4. The reason why “White Lung” is common in the China 2019 and 2022 winter outbreak can be explain by Table 1c and Table 1d, based on the current genome sequences data submitted.

Note: These conclusions are drawn based on general assumptions. In clinic, we must look at individual patient’s signs and symptoms before making diagnosis.

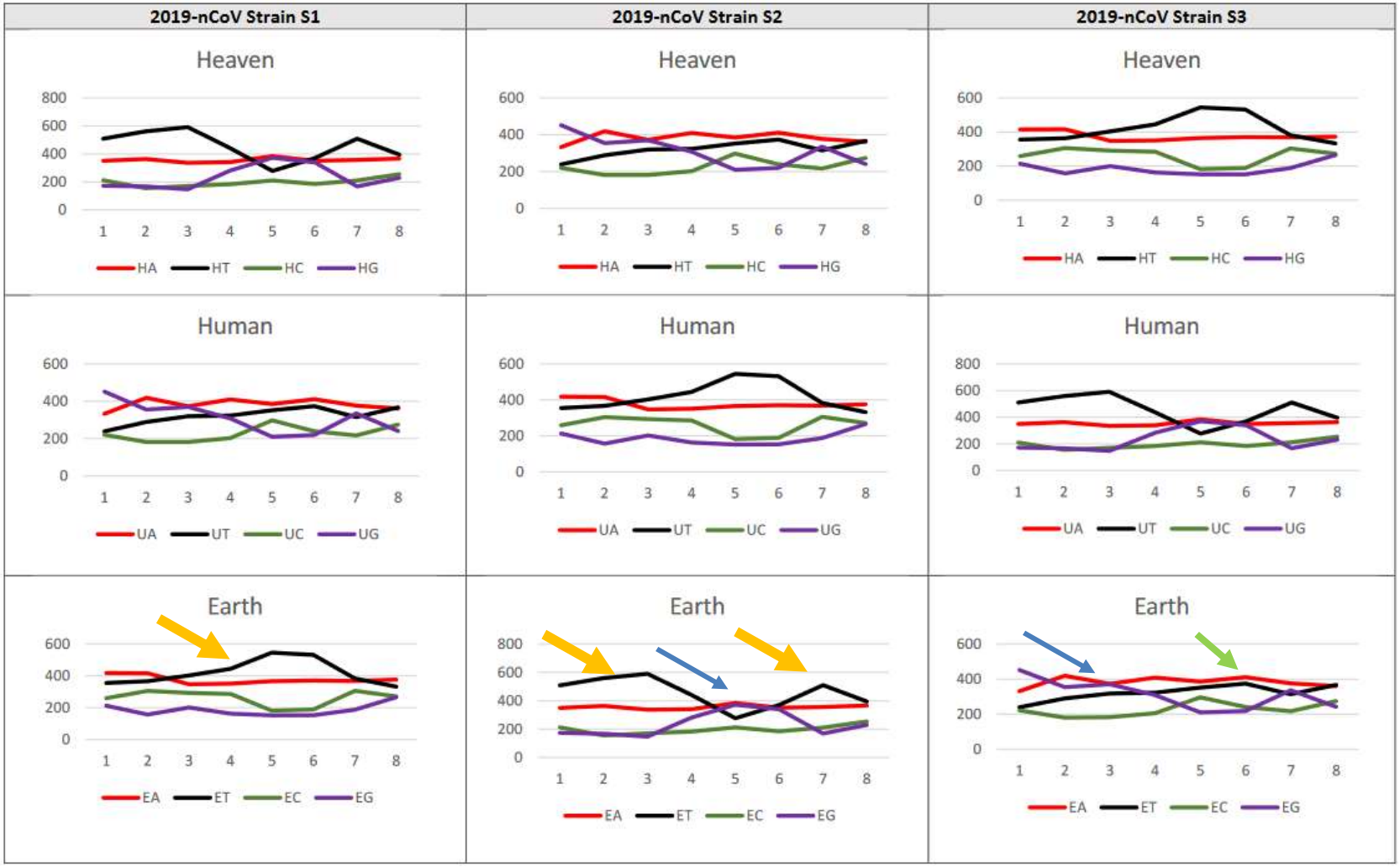

Fig 1. Yellow arrows indicate where fluid accumulation may occur. Blue arrows indicate where scar tissues may appear. Green arrow indicates where pus may form.

GENBANK ID	Region	Collection Date	Variant	GENEIDO Type	URL
OQ048277.1	CN	12/9/2022	BA.5.2	GT-S2	https://www.ncbi.nlm.nih.gov/nuccore/OQ048277.1?report=fasta
OQ048278.1	CN	12/9/2022	BN.1.3	GT-S2	https://www.ncbi.nlm.nih.gov/nuccore/OQ048278.1?report=fasta
OQ048279.1	CN	12/9/2022	BN.1.3	GT-S2	https://www.ncbi.nlm.nih.gov/nuccore/OQ048279.1?report=fasta
OQ048280.1	CN	12/9/2022	BF.5	GT-S2	https://www.ncbi.nlm.nih.gov/nuccore/OQ048280.1?report=fasta
OQ048281.1	CN	12/9/2022	BF.5	GT-S2	https://www.ncbi.nlm.nih.gov/nuccore/OQ048281.1?report=fasta
OQ048284.1	CN	12/9/2022	BF.7	GT-S2	https://www.ncbi.nlm.nih.gov/nuccore/OQ048284.1?report=fasta
OQ048286.1	CN	12/9/2022	BQ.1.1	GT-S2	https://www.ncbi.nlm.nih.gov/nuccore/OQ048286.1?report=fasta
OL549280.1*	CN	12/31/2019	B	GT-S3	https://www.ncbi.nlm.nih.gov/nuccore/OL549280.1?report=fasta

Table 2. SARS-CoV-2 GENEIDO Analysis December 2022 – Data from China

Note:

- OL549280.1* was submitted on 12/16/2022, but it was collected on 12/31/2019 when the pandemic just started. It is type GT-S3 while the rest are GT-S2.