SPIKE-DETOX-PROTOCOL

Analysis of key disease pathways and rationale for use of protocol in the management of Long Hauler COVID/Post-Vaccine Injury

Terrain Health

Dr. Robin Rose

SPIKE-DETOX-PROTOCOL

- Persistent Spike Proteins in organs are fueling the progression of disease
- The ability to degrade spike is impaired, therefore it stays in the organism
- Spike Detox is the essential baseline treatment!







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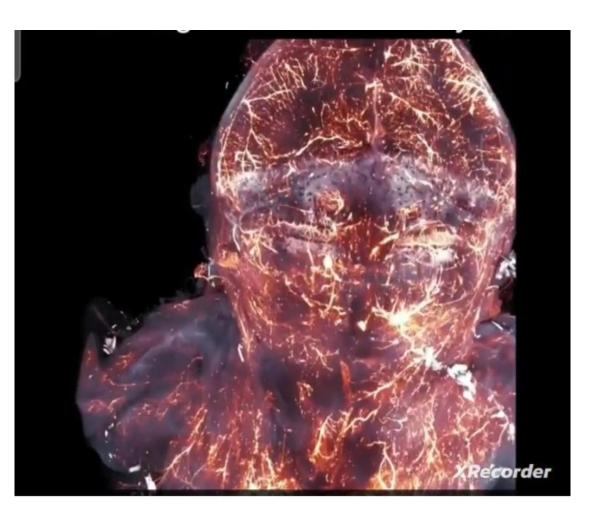
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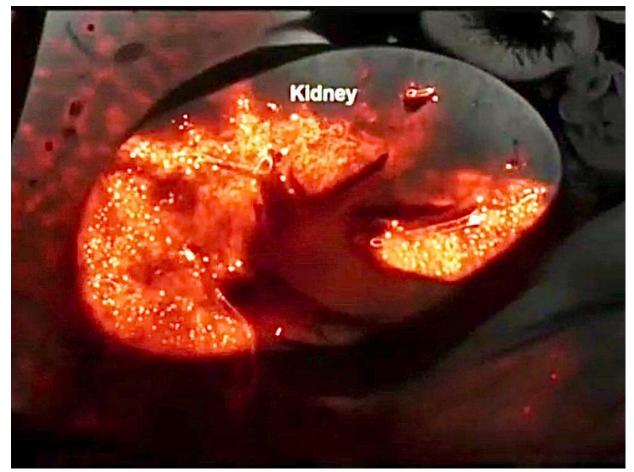
SARS-CoV-2 Spike Protein
Accumulation in the Skull-MeningesBrain Axis: Potential Implications for
Long-Term Neurological
Complications in post-COVID-19

Zhouyi Rong, Hongcheng Mai, Saketh Kapoor, Victor G. Puelles, Jan Czogalla, Julia Schädler,

SARS-CoV-2 Spike Protein trafficking from CNS borders into the brain parenchyma

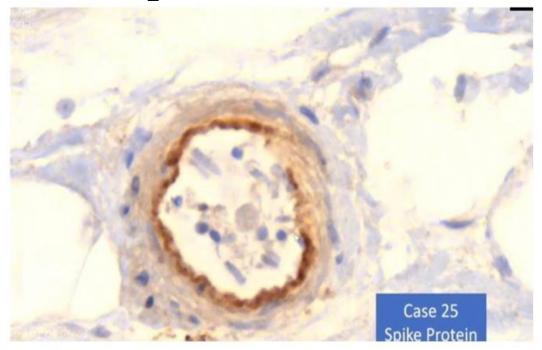








Synthetic Spike Protein in Arterioles:



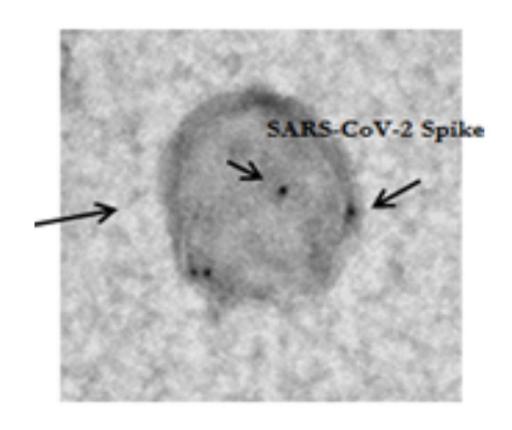


- Spike Protein is not only found in the capillaries but also in the small arterioles.
- Case 25 Spike Protein shows a clear positive reaction and an interruption in the inner vessel wall layers. It also shows a sloughed off endothelial and single inflammatory cells.



RESEARCH ARTICLE | NOVEMBER 15 2021

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Sandhya Bansal  ; Sudhir Perincheri; Timothy Fleming  ; Christin Poulson  ; Brian Tiffany  ; Ross M. Bremner; Thalachallour Mohanakumar  □
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- Transmission electron microscopy images of SARS-CoV-2 Spike AG on exosomes.
- Exosomes originating from controls and vaccinated individuals.
- Arrows indicate SARS-CoV-2 spike positive exosomes.



- Aside from externalized phosphatidylserine (ePS) putting off a universal "eat me" signal, it can also convey "fuse me" cues to host phagocytes that can contribute to the unintended consequences of pathological syncytia formation [10].
- The lipid nanoparticles (LNP) component, cholesterol, is also a promoter of pathological cell to cell fusion as it can alter the asymmetry of cell membranes [50].
- Cell to cell fusion leads to premature cellular senescence and iatrogenic immunosuppression, it may party explain the immune dysfunction documented in some vaccinated individuals.

International Journal of

Pathology and Clinical

Research



ISSN: 2469-5807

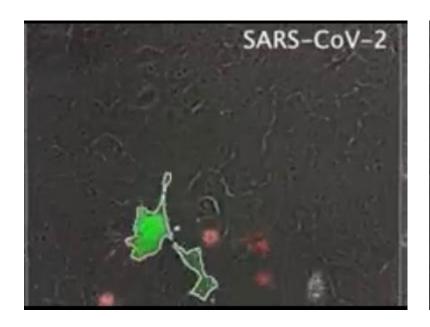
REVIEW ARTICLE | ☐ OPEN ACCESS DOI: 10.23937/2469-5807/1510137

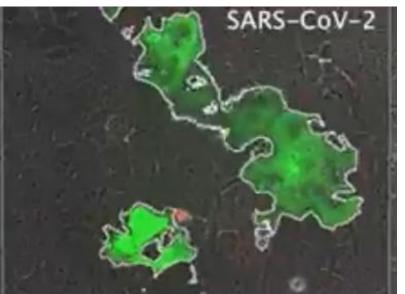
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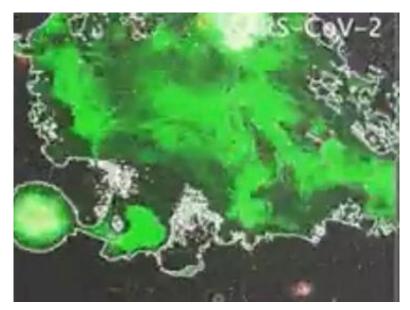
Messenger RNA Vaccines Induce Pathological Syncytia?

Adonis Sfera, MD^{1,2*}, Karina G Thomas¹, DAN O Sfera¹, Jonathan J Anton³, Christina V Andronescu⁴, Nyla Jafri¹, Sarvin Sasannia⁵ and Zisis Kozlakidis⁶









- Senescent Cells and Syncytia are harboring spike proteins and/or persistent viruses.
- Our protocols prevent the formation of cell fusion by spike proteins, this is important for organ protection especially during detox!



SARS-CoV-2 Spike Protein expression in kidney cells results in syncytia formation with cellular sloughing

- Spike protein expression in these cells upregulates the cytoprotective gene HO-1.
- Quercetin, an HO-1(heme oxygenase) inducer, reduced syncytia size and spike protein expression.
- Quercetin may provide a clinically relevant protective strategy for acute kidney injury in COVID-19.

The spike protein of SARS-CoV-2 induces heme oxygenase-1: Pathophysiologic implications

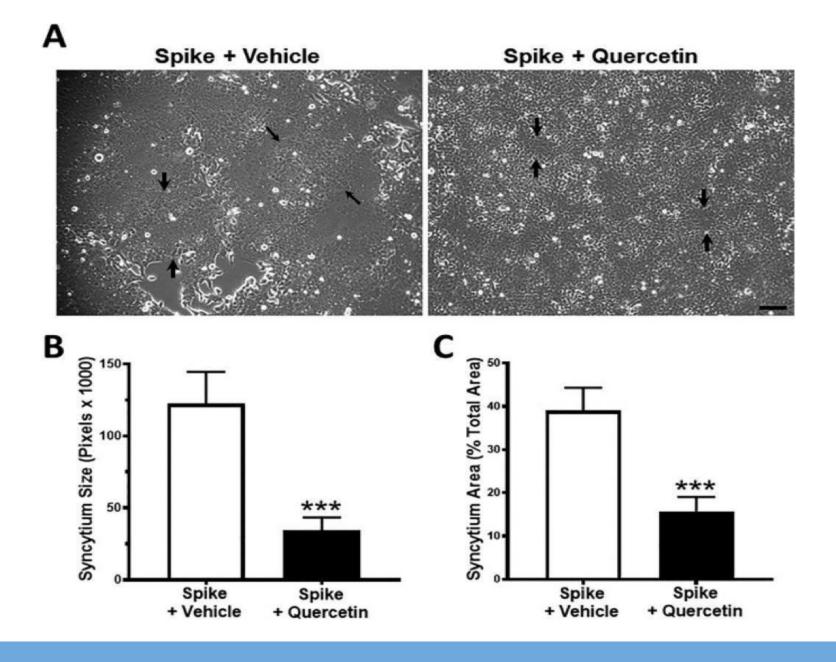
Raman Deep Singh ^a, Michael A. Barry ^b,

Anthony J. Croatt ^a, Allan W. Ackerman ^a,

Joseph P. Grande ^c, Rosa M. Diaz ^d, Richard G. Vile ^d

, Anupam Agarwal ^e, Karl A. Nath ^a







SPIKE DETOX PHASE 1:

- Degradation of free spike protein in circulation and spike that is attached to the receptor, NOT the membrane
- Prevention of renewed spike protein fusion to host cells
- Bromelain, Nattokinase, Augmented N-Acetyl Cysteine (ANAC), VEDICINALS 9, and a Heparin like substance (used as chelator for spike or fragments)



Bromelain and Acetylcysteine present a synergistic effect on severe acute respiratory syndrome coronavirus (SARS-CoV-2) spike





The Combination of Bromelain and Acetylcysteine (BromAc) Synergistically Inactivates SARS-CoV-2

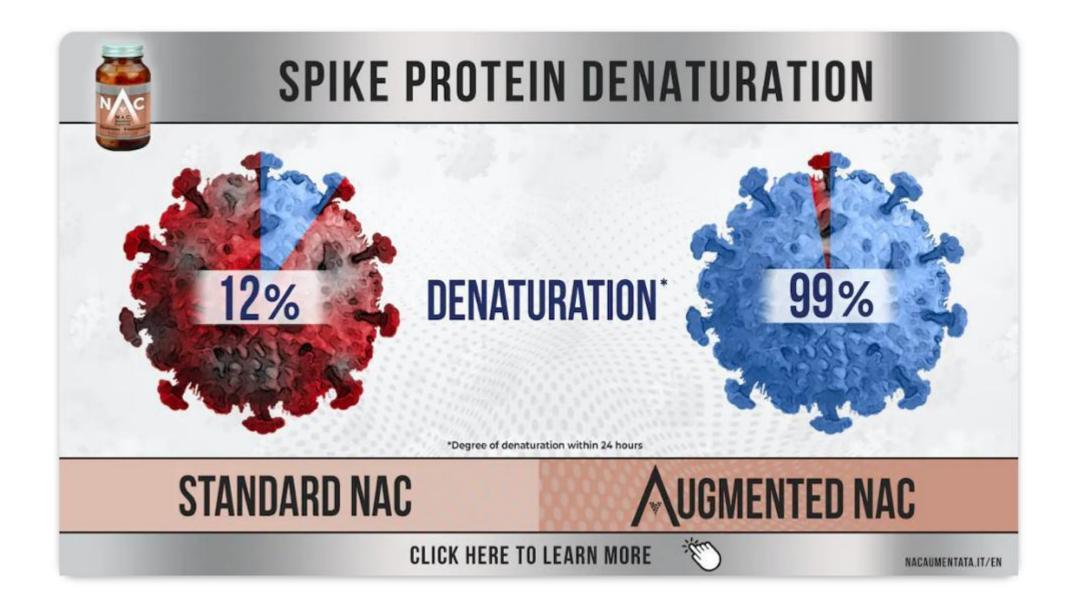
Javed Akhter, 1,2,† Grégory Quéromès, 3,† Krishna Pillai, 2,† Vahan Kepenekian, 1,4,† Samina Badar, 1,5 Ahmed H. Mekkawy, 1,2,5 Emilie Frobert, 3,6,‡ Sarah J. Valle, 1,2,5,‡ and David L. Morris 1,2,5,*‡

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ı	٢		1	٩	١

	1	2	3	4	5	6	
Acetylcysteine (20 mg/mL)	120	+	141	+	1-1	+	
Bromelain (µg/mL)	(2)	+	50	50	100	100	

Spike protein (150 KDa)







Immunofluorescence analysis showed that S protein on the cell surface was degraded when nattokinase was added to the culture medium.

Degradative Effect of Nattokinase on Spike Protein of SARS-CoV-2

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by 🔞 Takashi Tanikawa 1,*,† 🖂, 🚷 Yuka Kiba 2,†, 🚷 James Yu 3, 🚷 Kate Hsu 3, 🚷 Shinder Chen 3,
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NATTOKINASE 50mg / 1000FU low dosage

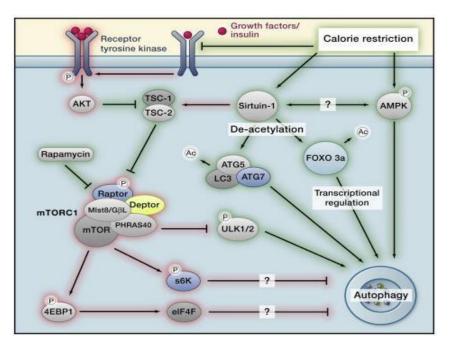


Ayako Ishii 4, A Takami Yokogawa 2 , A Ryuichiro Suzuki 5, A Yutaka Inoue 1 and

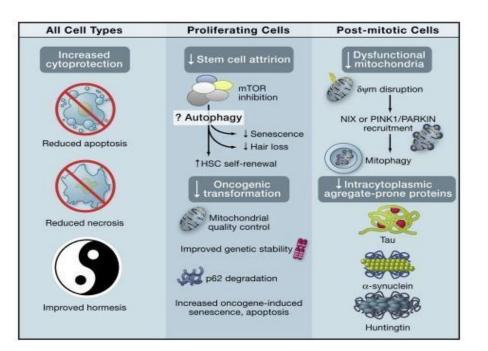
SPIKE DETOX PHASE 2:

- Overriding the blockages of the spike on AUTOPHAGY mechanisms
- Using these specific autophagy inducers:
 Resveratrol, VEDICINALS 9





The Regulation of Autophagy and Life Span



- Autophagy may increase organismal fitness by inhibiting cell death, reducing oncogenic transformation, or increasing hormesis, both in quiescent and dividing cells (left).
- In addition, autophagy may contribute to life span extension through distinct mechanisms in post mitotic (middle) and proliferating cells (right). HCS, hematopoietic stem cell.



Vedicinals-9
 molecules are
 known promoters
 of autophagy
 which can save the
 injured cells.



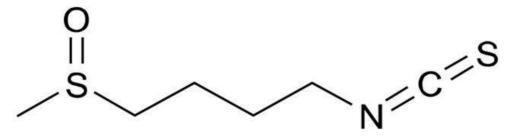
SPIKE DETOX PHASE 3:

- Potent SENOLYTICS in order to break up SENESCENT cells and SYNCYTIA.
 - o VEDICINALS 9 (Quercetin, Rutin, EGCG, Licorice, Curcumin) and Fisetin
- Bromelain, Nattokinase, and a Heparin like substance as chelator of free spike and excess collagen that is liberated in the process



Many natural compounds have senolytic effects*

- **Phenols:** curcumin, epigallocatechin, gallate, fisetin, genistein, phloretin, quercetin, resveratrol
- Organosulfur compounds: allicin, phenethyl isothiocyanate, sulforaphane
- Methyl-tocols: tocotrienols
- Alkaloids: berberine, piperlongumine
- Terpenoids: triptolide







curcumin



^{*}Marco Malavolta et al. Mediators Inflamm 2018; 2018: 4159013.

INJECTION OF RECOMBINANT FLUORESCENT SPIKE



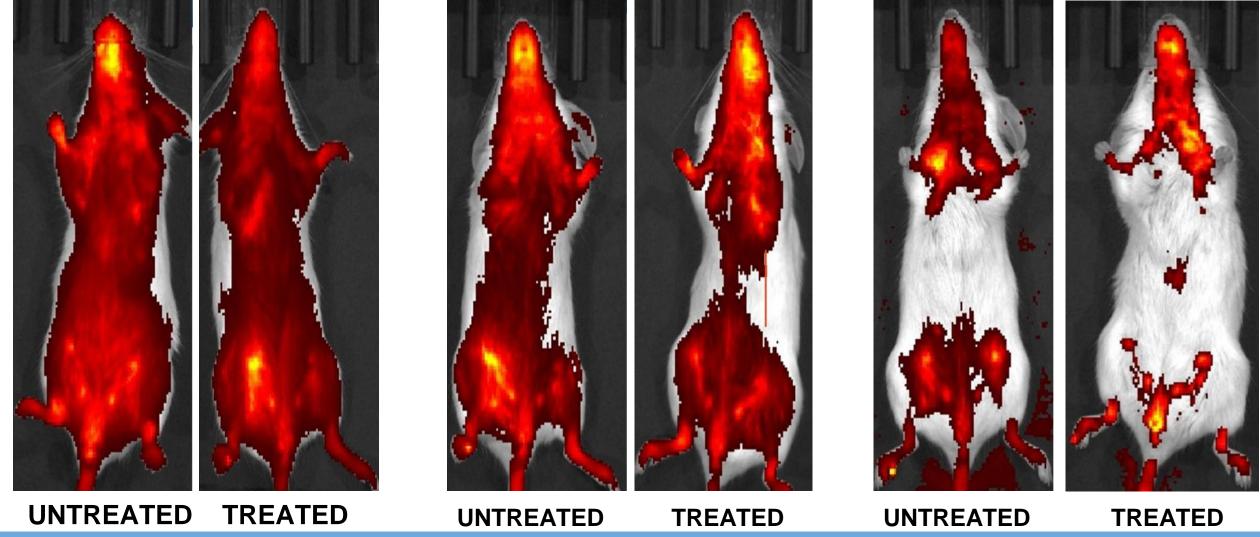
24 hours after injection into the tail



72 hours after injection into the tail



Spike Detox - 1st Proof of Concept animals were injected intraperitoneal with fluorescent recombinant spike protein DAY 0 DAY 11





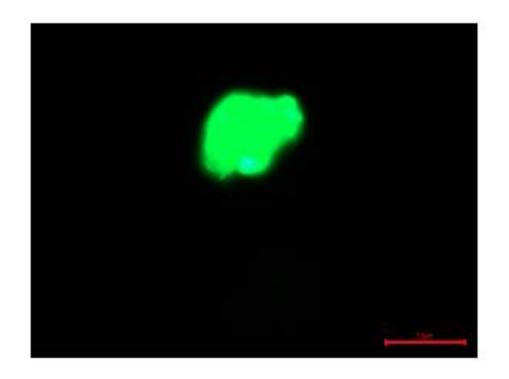


Biomarkers that are significantly abnormal in our patients

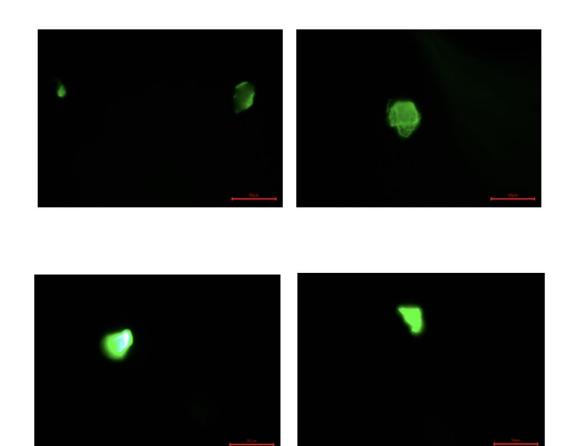
- Human Transforming Growth Factor baeta-1 (TGF-b1)
- D-dimer
- ABETA 42/40
- Cardiovascular (CV) Biomarkers
- Vascular Endothelial Growth Factor (VEGF)
- SARS COV2 Spike IgG and Nucleocapsid Antibodies
- Histamine
- WBC
- Microthrombi (all of our patients Grade 3/4- 4/4)
- High Sensitivity C-Reactive Protein (CRP)
- Anti-Nuclear Antibody (ANA)
- Epstein Barr Virus (EBV) titers



Microthrombi Results 3.5/4







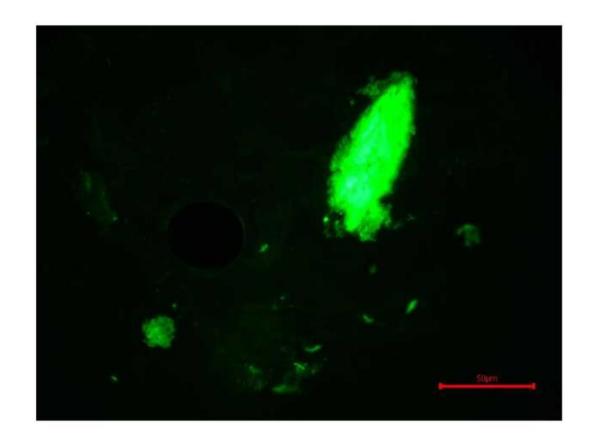
Comments and staging of Amyloid Fibrin Microclots:

Stage/Grade 3.5 out of 4: Moderate and Widespread

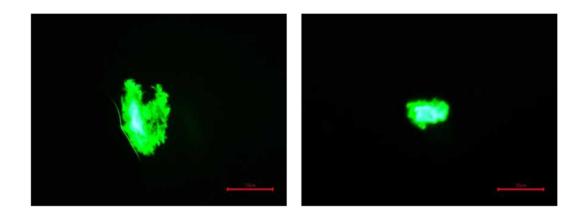
Note: Micro-clots come in all shapes and sizes. You may also see long, string-like appearing objects in your pictures. These are **Endothelial cast** and are associated with **endothelial damage and inflammation**. This is a normal finding for long-COVID patients.

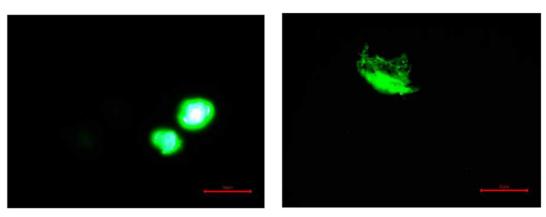


Microthrombi Results 4/4









Comments and staging of Amyloid Fibrin Microclots:

Stage/Grade 4 out of 4: Significant and Widespread

Note: Micro-clots come in all shapes and sizes. You may also see long, string-like appearing objects in your pictures. These are **Endothelial cast** and are associated with **endothelial damage and inflammation**. This is a normal finding for long-COVID patients.



Patient L History

- Male 66, Long Hauler COVID, Suffering from:
 - Chronic fatigue a/w exercise intolerance
 - Dysautonomia/spontaneous tachycardia
 - Horrible brain fog



Patient L Before Treatment Biomarkers

- Out of Range:
 - o TGF-B1
 - SARS CoV2 Antibodies
 - o ABETA 42/40 Ratio
 - o ANA Screen
 - o EBV VCA IGM (U/mL)

Reference Ranges:

- White Blood Cell Count: 3.8-10.8 Thous/uL
- D-Dimer: <0.50 mcg/mL
- Histamine: < OR = 1.8 ng/mL</p>
- TFG-B1: 344-2382 pg/mL
- VEGF: 31-86 pg/mL
- SARS CoV2 Antibodies: (<1 Index)
- ABETA 42/40 Ratio: > OR = 0.160
- HS CRP: <1.0</p>
- ANA: Negative
- EBV VCA IGM: <36 is a negative interpretation

Patient L	
Biomarker	Before Levels
WBC (thous/uL)	5.4
D-Dimer (mcg/mL)	0.43
Histamine (ng/mL)	<1.5
TGF-B1 (pg/mL)	9520 (High)
VEGF (pg/mL)	83
SARS CoV2 Antibodies	12.44 (High)
ABETA 42/40 RATIO	0.126 (Low)
HS CRP	0.8
ANA	1:40 (High) Positive
EBV VCA IGM (U/mL)	46 (High)



Patient L Treatment Plan

- Long Hauler Protocol x 8 Weeks:
 - o Vedicinals
 - o Vitamin D
 - Vitamin C
 - o Zinc L-Carnosine
 - o Lumbroxym
 - o Melatonin
 - Rhizo Health (Pre-Pro-Post-biotic)
 - Trans-Resveratrol
 - o EZ Trek (Parental oil: Omega 6&3)
 - o Fisetin



Patient L Post-Treatment Biomarkers

- Decreased Biomarkers
 - o D-Dimer
 - o TGF-B1
 - o VEGF
 - SARS CoV2 Antibodies
 - o HS CRP
 - o ANA
 - EBV VCA IGM (U/mL)

Reference Ranges:

- White Blood Cell Count: 3.8-10.8 Thous/uL
- D-Dimer: <0.5 mcg/mL
- Histamine: < OR = 1.8 ng/mL
- HTFG-B1: 344-2382 pg/mL
- VEGF: 31-86 pg/mL
- SARS CoV2 Antibodies: (<1 Index)
- ABETA 42/40 Ratio: > OR = 0.160
- HS CRP: <1.0
- ANA: Negative
- EBV VCA IGM: <36 is a negative interpretation

Patient L		
Biomarker	Before Levels	After Levels
WBC (thous/uL)	5.4	5.5
D-Dimer (mcg/mL)	0.43	0.25
Histamine (ng/mL)	<1.5	<1.5
TGF-B1 (pg/mL)	9520 (High)	<mark>1820</mark>
VEGF (pg/mL)	83	38
SARS CoV2 Antibodies	12.44 (High)	11.34 (High)
ABETA 42/40 RATIO	0.126 (Low)	0.174
HS CRP	0.8	0.5
ANA	1:40 (Positive)	Negative
EBV VCA IGM (U/mL)	46 (High)	<36



Patient L Post-Treatment

- Patient states he is feeling great:
 - Little to no brain fog
 - Fatigue improved greatly
 - o Able to focus more
 - Able to exercise and play basketball
 - No more shortness of breath
 - No more tachycardia



Patient E History

- Female 60, Long Hauler COVID, suffering from:
 - o Dizziness
 - Exercise intolerance
 - Tachycardia
 - o Shortness of breath
 - Chronic fatigue
 - o Brain fog
 - Joint pain and muscle aches



Patient E Before Treatment Biomarkers

Out of Range:

- D-Dimer
- TGF-B1
- VEGF
- SAR CoV2 Antibodies
- EBV VCA IGG

Reference Ranges:

- White Blood Cell Count: 3.8-10.8 Thous/uL
- D-Dimer: <0.5 mcg/mL
- Histamine: < OR = 1.8 ng/mL
- TFG-B1: 344-2382 pg/mL
- VEGF: 31-86 pg/mL
- SARS CoV2 Antibodies: (<1 Index)
- ANA: Negative
- EBV VCA IGM: <36 is a negative interpretation
- EBV VCA IGG: : <18 is a negative interpretation

Patient E		
Biomarker	Before Levels	
WBC (thous/uL)	4.7	
D-Dimer (mcg/mL)	0.67 (High)	
Histamine (ng/mL)	<1.5	
TGF-B1 (pg/mL)	4140 (High)	
VEGF (pg/mL)	<31 (Low)	
SARS CoV2 Antibodies	>150 (High)	
ANA	Negative	
EBV VCA IGM (U/mL)	<36	
EBV VCA IGG (U/mL)	248 (High)	



Patient E Treatment

- Long Haul Protocol
 - Vedicinals
 - Vitamin D
 - Vitamin C
 - o Zinc L-Carnosine
 - Lumbroxym
 - o Melatonin
 - o Rhizo Health
 - o Trans-Resveratrol
 - o EZ Trek



Patient Post-Treatment Biomarkers

- Decreased Biomarker
 - o D-Dimer
 - o TGF-B1
 - o EBV VCA IGG

Reference Ranges:

- White Blood Cell Count: 3.8-10.8 Thous/uL
- D-Dimer: <0.5 mcg/mL
- Histamine: < OR = 1.8 ng/mL
- TFG-B1: 344-2382 pg/mL
- VEGF: 31-86 pg/mL
- SARS CoV2 Antibodies: (<1 Index)
- ANA: Negative
- EBV VCA IGM: <36 is a negative interpretation
- EBV VCA IGG: : <18 is a negative interpretation

Patient E			
Biomarker	Before Levels	After Levels	
WBC (thous/uL)	4.7	5.2	
D-Dimer (mcg/mL)	0.67 (High)	0.27	
Histamine (ng/mL)	<1.5	<1.5	
TGF-B1 (pg/mL)	4140 (High)	<mark>2380</mark>	
VEGF (pg/mL)	<31 (Low)	<31 (Low)	
SARS CoV2 Antibodies	>150 (High)	>150 (High)	
ANA	Negative	Negative	
EBV VCA IGM (U/mL)	<36	<36	
EBV VCA IGG (U/mL)	248 (High)	235 (High)	



Patient E Post-Treatment

- Patient states she is feeling much better:
 - Brain fog and chronic fatigue significantly improved
 - Joint pain improved
 - Slowly exercising again
 - Shortness of breath improved



Patient S Lab Work Prior to Treatment

- Out of Range
 - o Histamine
 - o TGF-B1
 - SARS CoV2 Antibodies
 - o HS CRP
 - o EBV VCA IGG

Reference Ranges:

- White Blood Cell Count: 3.8-10.8 Thous/uL
- D-Dimer: <0.5 mcg/mL
- Histamine: < OR = 1.8 ng/mL
- TFG-B1: 344-2382 pg/mL
- VEGF: 31-86 pg/mL
- SARS CoV2 Antibodies: (<1 Index)
- ABETA 42/40 Ratio: > OR = 0.160
- HS CRP: <1.0
- ANA: Negative
- EBV VCA IGG: : <18 is a negative interpretation

Patient S		
Biomarker	Before Levels	
WBC (thous/uL)	10.6	
D-Dimer (mcg/mL)	0.26	
Histamine (ng/mL)	21.6 (High)	
TGF-B1 (pg/mL)	6500 (High)	
VEGF (pg/mL)	76	
SARS CoV2 Antibodies	>150.00 (High)	
ABETA 42/40 RATIO	0.163	
HS CRP	36.10 (High)	
ANA	Negative	
EBV VCA IGG (U/mL)	36.10 (High)	



