

APPENDIX F--- FLEMING UNIFIED THEORY OF VASCULAR DISEASE (THE INFLAMMATION AND HEART DISEASE THEORY) EXPLAINS CRS & INCREASED BLOOD CLOTTING

EXPLAINING WHY COVID-19 IS ASSOCIATED WITH INCREASED
INFLAMMATORY DAMAGE AND THROMBOSIS.

<https://rmfmd71.wixsite.com/fhhi-omnific/cytokine-release-syndrome-crs>

The human body is designed to protect people from damage caused by something entering and harming the body. Three relatively common examples include:

1) The introduction or ingestion of something into the body, which harms the body.

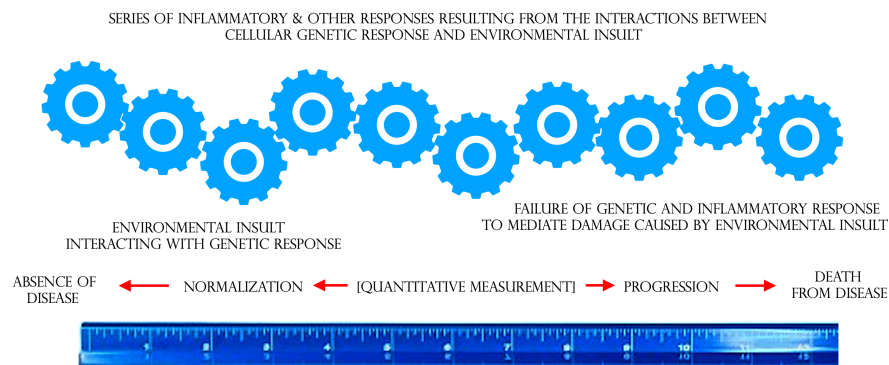
Damage occurring within your body caused by poor diets (too much saturated fat and too many calories - producing heart disease, and disease in other blood vessels causing strokes, claudication, impotence, etc.), chemicals (carcinogens - substances that cause cancer), pollution (air, water, land - e.g. fertilizers), smoking (chemicals you voluntarily put into your body), et cetera.

2) Cancer.

Changes occurring within your body, causing your cells to become abnormal and no longer function properly. These cells then threaten to take over the body.

It is the ability to measure changes in tissue metabolism and regional blood flow, using FMTVDM that allows us to measure both the extent and severity of Wuhan CoVid-19 infections before and after treatment to determine if a treatment is working or needs to be changed.

TRUE QUANTIFIED MEASUREMENT OF TISSUE CHANGES OCCURRING ACROSS THE HEALTH-SPECTRUM NOW POSSIBLE USING FMTVDM



IN CONTRAST TO THE YES/NO - ONE EXTREME OR THE OTHER - PRESENCE OR ABSENCE OF DISEASE USING QUALITATIVE VISUAL & SEMI-QUANTITATIVE (SUIV, CAC SCORING) ASSUMPTIONS

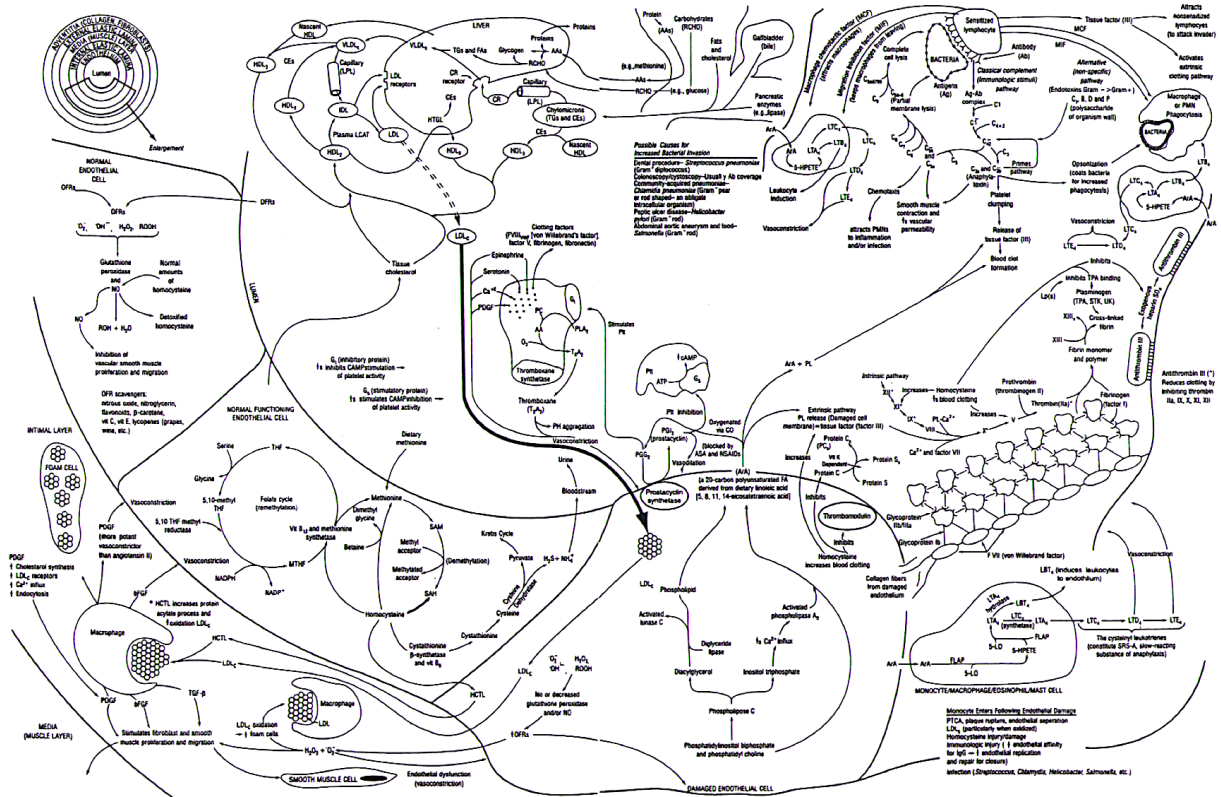


3) Infection.

This includes, among other things, fungal, protozoan, sexually transmitted diseases, bacteria, and viruses, like **CoVid-19**. These infectious organisms then try to live off your body so they can thrive and reproduce themselves at your expense.

To protect you, your body has the ability to fight against this damage using your immune system. These special cells talk to each other using chemical messengers called interleukins (e.g. IL-6) or cytokines.

The “Inflammation and Heart Disease²⁴” Theory first discussed in 1995, then later published in the Cardiology Textbook [reference #3 on page 13] in 1999, was briefly discussed during a 20/20²⁵ segment in 2004, shows how the immune system is involved in this.



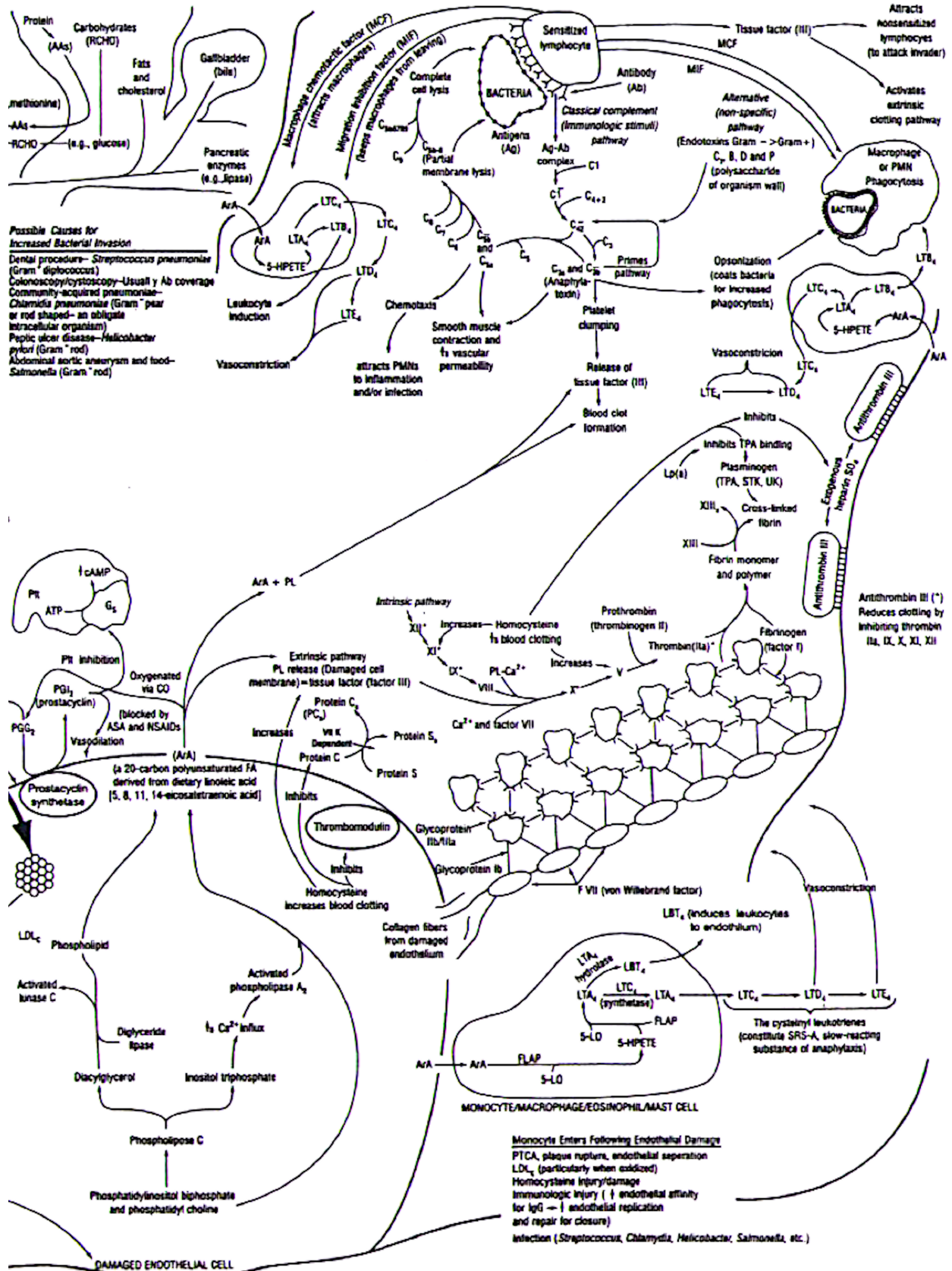
²⁴ Fleming-Harrington Redistribution Wash-in Washout (FHRWW) including stress-stress detection of inflammatory coronary artery disease. 1-655815511. Started 9-1-2011. Effective 9-16-2011, #TX 7-446-683.

²⁵ https://www.youtube.com/watch?v=Hvb_Ced7KyA&t=22s

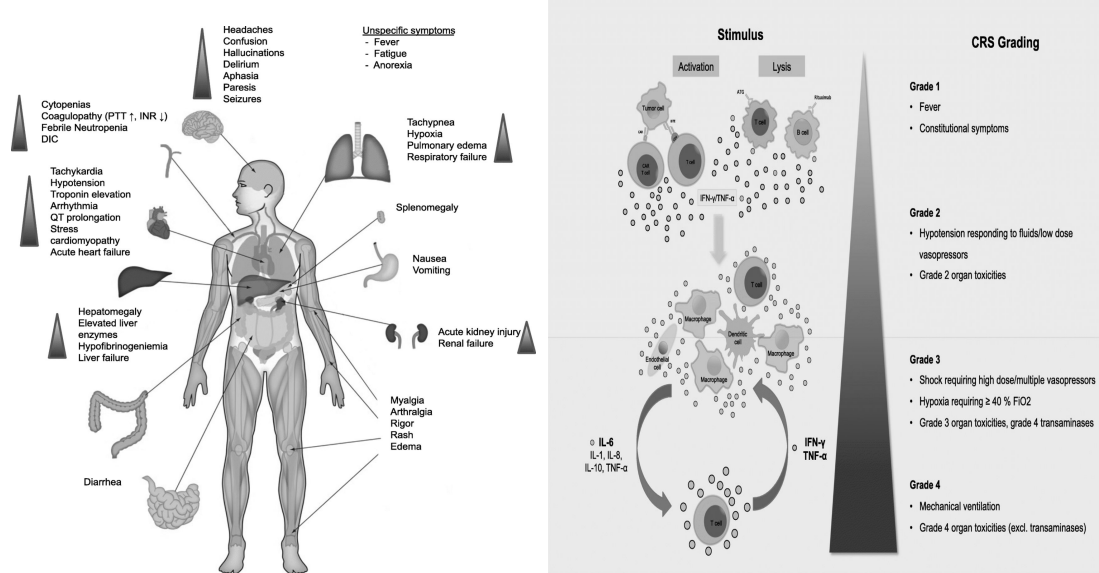
While there is a lot of information present in this one figure, if we look only at the right half of the figure (on the next page – p. 63) you can see how these infections, the chemical messengers used by your immune system and the compliment clotting cascade (chemicals in your body designed to recognize a problem and form blood clots), all work together to try to remove this harm and restore your body.

If the reaction to the damage - including that caused by the Wuhan CoVid-19 Virus - is too little, the body cannot heal itself. If however, the reaction is too much (for a variety of reasons including the presentation of a virus which your body has never seen before), then the very process designed to protect the body can actually cause harm to the body.

Much like dropping a nuclear weapon on a city. It will wipe out the enemy, but there will be nothing left in its wake and you won't be able to send troops in because the area is toxic and will only harm your troops.



This excess is exactly what is talked about in the "Inflammation and Heart Disease" Theory and what accounts for the CoVID-19 problems (ARDS, strokes, blood clots, skin lesions, etc.)



Blindly treating CoVID-19 without measuring what is happening at the tissue level, is asking for trouble. Not addressing Cytokine Release Syndrome (CRS) or clotting²⁶ problems (pulmonary emboli, deep venous thrombosis, etc.) is asking for problems. Not treating patients with Acute Respiratory Distress Syndrome (ARDS) accordingly, has arguably lead to many ventilator deaths.

That is why [NCT04349410](#) not only includes a treatment arm to address CRS, but requires **FMTVDM** measurement of what the treatments are actually doing to the CoVID-19.

As detailed in the “Inflammation and Heart Disease” Theory, viruses and the immunologic response to viruses, result in an inflammatory reaction that causes the release of cytokines and clotting. This reaction has both a local and systemic effect, which must be addressed to successfully treat the patient. There is the expectation that the presentation of a virus like CoVID-19, which has not previously been seen by the patient, may result in an intensified reaction as the immune system attempts to address the infecting organism.

Without **FMTVDM** measurement to objectively show clinicians what the treatment is doing to the virus, we are only guessing.

²⁶ All patients without contraindications should be placed on Heparin 5,000 units SQ BID if they are immobilized or confined to bed. Further treatment should be provided as clinically indicated.

APPENDIX G. FLEMING FMTVDM TREATMENT PROTOCOL EFFECTIVE 4 JULY 2020

FMTVDM Directed CoVID Proposed Treatment Guideline NCT04349410

Pre-hospitalization	Hospitalization and Evaluation of CoVID Severity on Day 1.	Acute Innate Cytotoxic Immune Response Treatment on Day 1.	Oxygenation Begin on Day 1.	Evaluate Treatment Response FMTVDM Day 3.	Delayed Adaptive Humoral Immune Treatment. Day 3 immediately after FMTVDM.
Pre-hospitalization	Hospitalization and Evaluation of CoVID Severity on Day 1.	Acute Innate Cytotoxic Immune Response Treatment on Day 1.	Oxygenation Begin on Day 1.	Evaluate Treatment Response FMTVDM Day 3.	Delayed Adaptive Humoral Immune Treatment. Day 3 immediately after FMTVDM.
For symptomatic individuals begin HCQ, AZT and/or alternative inhibitors of viral transcription or protein translation.	FMTVDM measurement of CoVID. Begin pre-hospitalization Rx if not already started. ECG and Rx any prolongation of QTc with Esmolol, K, Ca, & Mg.	Initiate Additional Treatment Bronchodilatory Beta-2 agonsit Rx. Consider adding Primaquine 200 mg one dose. Initiate Tocilizumab.	Use incentive spirometry for Rx and measure of respiratory strength. With any compromise in ventilatory status begin PRONE positioning of patient. Consider BIPAP	Use incentive spirometry for Rx and measure of respiratory strength. With any compromise in ventilatory status begin PRONE positioning of patient. Consider BIPAP	Adjust Rx given FMTVDM results. Initiate Remdesivir if not already started. Initiate methylprednisolone. Continue to aggressively address inflammatory and clotting disorders including efforts to get patient out of bed (chair, ambulate, etc.) to avoid further thrombotic episodes.
Begin Immune supportive Rx including Zn.	Measure inflammatory & thrombotic markers and treat accordingly to address and prevent clotting and further uncontrolled inflammation.	Initiate interferon alpha 2 beta. Consider Remdesivir.	Prepare for VV or VA ECMO support. If other measures fail consider ventilatory support with VT not to exceed 5 cc/kg IDBW.	(1) Improved. Cont Rx. (2) Stable. Add next level of Rx. (3) Deterioration. Change Rx.	Consider passive immunity with plasma with attention directed to potential associated clotting potential.
Consider combination administration of interferon alpha 2 beta treatment with other agents.	Do NOT merely leave patient in bed (chair, ambulate, etc.).				