

# Unvaccinated vs Vaccinated Blood Comparison – Infrared Spectroscopy and Electrical Conductivity Studies

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by [Ana Mihalcea](#), MD, PhD, [Dr. Ana's Newsletter](#)

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### **Introduction**

In this article, I describe a series of experiments that were done on six unvaccinated blood samples and three vaccinated blood samples with Infrared Spectroscopy and a electrical conductivity meter. The purpose of this investigation is to begin to quantify with objective measurements what has happened to the blood of humanity since the roll out of the C19 injections. As I have described in previous posts, ribbon like structures have been found in vaccinated and unvaccinated live blood analysis at an unprecedented rate, in addition to extensive rouleaux formation and micro clotting.

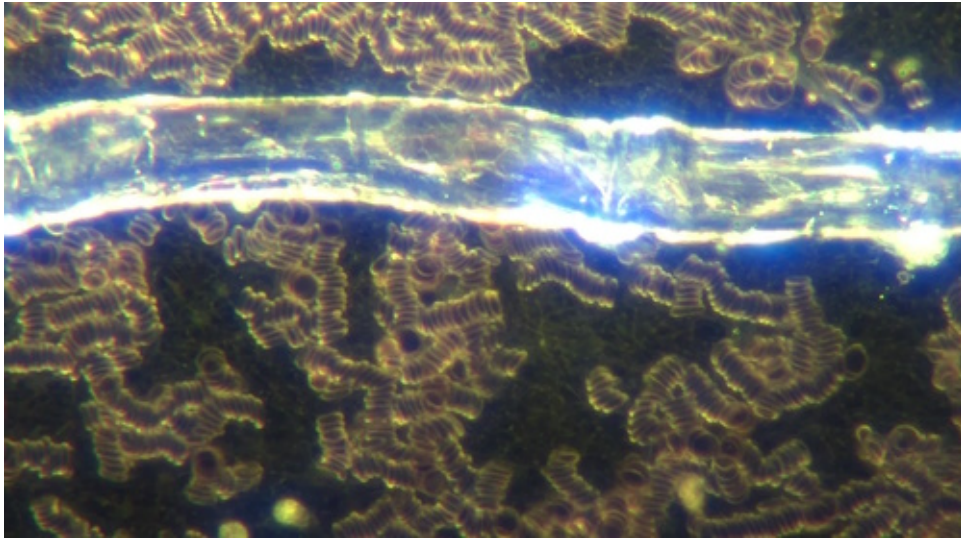


Image courtesy: Unvaccinated blood with rouleaux and characteristic filament structure in post C19 shot era

Clinically, these findings have been accompanied with an undeniable accelerated aging process in the population, exhibiting symptoms like chronic fatigue, brain fog, cardiovascular abnormalities and more. This symptoms complex has been categorized as “long Covid”. In my own clinical practice, everyone post Covid, everyone with long Covid and over the last months everyone unvaccinated coming for a live blood analysis has these structures in their blood. The source is presumed from the environment and vaccine shedding. I have suspected it to be self assembly hydrogel possibly with Carbon nanostructures and metals involved based on my background research.

Many people call these structures Graphene. The chemical composition of these structures, to my current knowledge, has not yet been evaluated. Clifford Carnicom has done extensive research in the area of CDB synthetic biology. I have reported on our recent unvaccinated blood experiments applying very low level electrical current, which shows extensive filament development.

**[Unvaccinated Blood: Recurrent New Proof of \(CDB\) Filaments Growing Under Exposure of Extremely Low Electrical Currents:](#)**

## [Ana Maria Mihalcea, MD, PhD in conjunction with Clifford Carnicom](#)

Infrared spectroscopy (IR spectroscopy or vibrational spectroscopy) is an analytical technique used to study and identify chemical substances or functional groups in solid, liquid, or gaseous forms.

Clifford Carnicom has three decades worth of IR spectrometry experience investigating environmental filaments (CDB) and the blood of those exposed. The CBD synthetic biology culture work that he has done, evaluated the abnormal metabolic products in affected blood which included 1. water soluble proteins, 2. solid proteins, 3. filament network. These water soluble products under IR spectroscopy created a plastic like film classic of polymer hydrogel with specific frequency peaks. For more information, please see Carnicom Institute. Similar functional groups occur historically in CDB research and in these new experiments of the post C19 injection era.

### **Preliminary Results:**

## Infrared Spectroscopy Unvaccinated

History of mild to moderate Covid, no long Covid, N=5	History of severe Covid with respiratory failure and long Covid, N=1																				
<table border="1"><thead><tr><th>Nanometer Peaks</th><th>Associated Chemical Groups</th></tr></thead><tbody><tr><td>934nm</td><td>CH, ROH</td></tr><tr><td>1386nm</td><td>CH3, ArOH</td></tr><tr><td>1524nm</td><td>RNH2</td></tr></tbody></table>	Nanometer Peaks	Associated Chemical Groups	934nm	CH, ROH	1386nm	CH3, ArOH	1524nm	RNH2	<table border="1"><thead><tr><th>Nanometer Peaks</th><th>Associated Chemical Groups</th></tr></thead><tbody><tr><td>1315nm</td><td>SH bond</td></tr><tr><td>1100nm</td><td>ArCH</td></tr><tr><td>1648nm</td><td>ArCH</td></tr><tr><td>1386nm</td><td>CH3, ArOH</td></tr><tr><td>1035nm</td><td>RNH2</td></tr></tbody></table>	Nanometer Peaks	Associated Chemical Groups	1315nm	SH bond	1100nm	ArCH	1648nm	ArCH	1386nm	CH3, ArOH	1035nm	RNH2
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1 out of 5 samples had a very weak peak of 1648 nm which is why we describe it as a secondary result.

CH = carbon hydrogen bond. ROH= hydroxyl group. CH3= methyl group, ArOH= aromatic alcohol, RNH2=monoamine. SH=disulfide bond. ArCH=aromatic ring with carbon hydrogen

## Vaccinated Blood Infrared Spectroscopy, N=3

Nanometer Peaks	Associated Chemical Groups
920nm	CH, ROH
1386nm	CH3, ArOH
1514nm	RNH2
1585nm	New NH
1645nm	ArCH
1435nm	New ROH, CONH2, CH

CH = carbon hydrogen bond. ROH= hydroxyl group. CH3= methyl group, ArOH= aromatic alcohol, RNH2=monoamine. SH=disulfide bond. ArCH=aromatic ring with carbon hydrogen, CONH2= Amide, derivative of carboxylic acid

### Summary of preliminary findings:

Unvaccinated blood with history of mild Covid samples have commonalities in IR signatures. Unvaccinated blood with history of severe Covid, respiratory failure and significant long Covid have IR signatures of aromatics and disulfide bonds similar to previously seen in CDB culture work, both could indicate presence of hydrogel polymers. Unvaccinated blood with history of respiratory failure shares an IR peak signature with vaccinated blood of secondary amines. Those can include the amino acid proline, which can form natural hydrogels, but also other chemicals. Frequency signatures within 5 nm can be considered equal. Vaccinated blood contains completely new spectroscopy findings with new functional groups not identified in any unvaccinated samples.

Aromatic Alcohols and aromatic Carbon Hydrogen bond lead to questions about polymeric alcohols/ hydrogels considering decades of similar IR spectra with CDB filaments. Continued research is necessary to evaluate patterns with larger sample size.

### Preliminary Findings of Blood Conductivity Measurements

Measurements of vaccinated and unvaccinated blood with a

conductivity meter ( N=9) was performed. Preliminary data of these samples shows up to 50% reduction in blood electrical conductivity compared to normal historical values in literature. It appears that vaccinated people have even lower conductivity than unvaccinated. This correlates with clinical findings that many people experience chronic fatigue symptoms, brain fog and decreased mitochondrial function – which has been called long Covid. Further research is necessary in larger sample sizes to evaluate statistically significant changes.

*If you would like to support our research to help humanity, please donate to the Carnicom Institute to fund our need for scientific research equipment. Your generosity is much appreciated. <https://carnicominate.org/donations-paypal/>*

*Project WHAT HAPPENED TO HUMANITIES BLOOD: If you have significant experience in Infrared Spectroscopy and would like help with analyzing over twenty years of thousands of blood samples for patterns in chemical changes that have occurred with the C19 shots roll out, please contact me.*

**[Connect with Dr. Ana Mihalcea](#)**

**[Connect with Clifford Carnicom](#)**

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