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## **MAC Address Finding Study Among Residents of IL, A Pilot Study.**

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### **Abstract:**

MAC (Media Access Control) Address emitting phenomenon in humans has been documented by various international teams (Columbia, Mexico, Argentina, and more) reporting that up to 86% of COVID-19 vaccinated individuals emit MAC Addresses, detectable and documentable by commercially available technological means. The present study is a pilot trial to verify the existence of this phenomenon among volunteers residing in the state of IL. Among 17 volunteers tested (including 5 COVID-19 vaccinated participants), a single vaccinated person was found to emit MAC Address (the effect was triple verified). Thus, the study confirms the existence of MAC Address emitting phenomenon among IL residents. However, no other conclusions could be drawn from the study.

### **Introduction:**

MAC (Media Access Control) Address is a unique identifier assigned to a network interface controller (NIC) for use as a network address in communications within a network segment. This use is common in most IEEE 802 networking technologies, including Ethernet, Wi-Fi, and Bluetooth. MAC Address is typically expressed as 6 sets of two digits and letters. (1) In the present study MAC Address was detected using Bluetooth technology which employs radio waves from 2.402 to 2.48 GHz. (2) While wireless devices such as cellphones, headphones, and various wireless hardware are designed to emit MAC Address, humans are not supposed to emit radio waves, or MAC Addresses. Recently, several reports have surfaced that this phenomenon has been observed in COVID-19 vaccinated individuals. (3) The present study is set to determine, whether the MAC Address emitting phenomenon exists among a small sample of residents of the state of IL.

### **Materials and Methods:**

The study took place at a nature preserve in DuPage County of IL. Prior to the study, the site was confirmed to be a Wi-Fi and Bluetooth free zone, with no detectable MAC Address emitting devices in the surrounding.

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Twenty-four volunteers were recruited among residents of IL and included both COVID-19 vaccinated and non-vaccinated participants. (However, only 18 arrived for testing, and one participant was excluded due to having Bluetooth enabled pacemaker). Double-blind Randomized Two-Phase protocol was utilized to design and conduct the study. Volunteers were randomized using two different methods and received 2 different color stickers with numbers for Phase 1 (blue stickers) and Phase 2 (green stickers).

Volunteers were asked to leave all their electronic devices in the car (cell phones, iWatches, Fitbits, headphones, hearing aid, remote control car entry keys, FOBs, etc.). Participants were gathered and lined up according to their phase-specific numbers 433 ft. away from the measuring site to ensure they wouldn't cause signal interference. Volunteers walked to the measuring site one at a time, in the order of their phase-specific numbers, and handed the sticker with a number to the person conducting the measurements. Thus, the person conducting the measurements was only presented colored stickers with numbers, ensuring adherence to the blinding methodology.

To determine MAC Addresses, an Android phone (Moto G5s Plus; OS: Android 8.1.0) without a SIM card, with Wi-Fi function turned off, and Bluetooth function turned on, was utilized. Bluetooth Scanner App., version 1.4.2 was used to scan for MAC Addresses. Results were unblinded only after all the measurements were complete.

**Results:**

Seventeen volunteers completed two phases of the study. Demographics of the participants are presented in **Table 1**. Among seventeen volunteers (n=17), five were COVID-19 vaccinated (n=5, 29.4%). A single participant vaccinated with Pfizer product was detected to emit MAC Address in both phases of the study. Additional data re. vaccinated participants and the results are presented in **Table 2**. Since the participant found to emit MAC Address received Pfizer injections, the lot numbers used in the other two Pfizer-injected volunteers were obtained, compared, and no matches were found (data not shown). The participant emitting MAC Address underwent additional testing, 1 day apart from the study date. On all three occasions, MAC Address was different, and the internet search did not identify a potential manufacturer of hardware of the MAC Addresses detected.

**Table 1. Demographics of the volunteers completed 2 phases of the study.**

No.	Characteristics	Value
1.	Total Participants	17
2.	Male Participants	4
3.	Female Participants	13
4.	Age Range	46-71
5.	Average Age	62
6.	Covid-19 Vaccinated	5

**Table 2. Characteristics of Covid-19 Vaccinated Participants**

No.	Vaccine Brand	No. of injections received	Date of last injection	MAC address detected (in both phases)
1.	J&J	1	3/23/2021	No
2.	Moderna	2	4/13/2021	No
3.	Pfizer	3	1/6/2022	No
4.	Pfizer	1	2/17/2021	No
5.	Pfizer	2	5/21/2021	Yes

**Discussion:**

This study confirms the existence of MAC Address emitting phenomenon in humans, specifically, among residents of IL. Small sample size (n=17), and even smaller sample size of COVID-19 vaccinated individuals (n=5) does not allow to draw any conclusion as to the correlation or causation of said phenomenon with the vaccination status. The only conclusion that could be confidently drawn from the study is that the MAC Address emitting phenomenon is demonstrable and detectable by Bluetooth technology. We consider this phenomenon alarming, as humans are not supposed to emit radio signals. We recommend this phenomenon to be studied using a larger sample size. A hypothesis needs to be formed as to what could be causing MAC Address emitting phenomenon.

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**References**

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