

Exhibit 509

A relevant article, white papers and other documents concerning the mRNA vaccine: an interesting collection useful to better understand some phenomena and to generate hypotheses

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Research Article

A relevant article, white papers and other documents concerning the mRNA vaccine: an interesting collection useful to better understand some phenomena and to generate hypotheses

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Keywords: White letter; Official documents; Independent researcher; Impurities; Graphene oxide; Nanolipids; mRNA vaccine; COVID-19; Toxicology; Pathology



Abstract

The aim of this work is to report some interesting references and documents related to the mRNA vaccine. Every cited reference can act as an instrument to better understand what some independent researchers find: this work is mainly focused on the public debate related presence/absence of graphene derivatives in some vaccine vials for COVID-19. Relevant classic articles White Papers or other kinds of a document are useful instruments to better clarify some crucial aspects of this infectious disease, its epidemiology and the efficacy of the measure adopted (preventive, therapeutic, or vaccine).

If the reviewed article show an intrinsic recognized international value other kinds of source like a White Paper or other documents can be of interest to generate hypotheses or to open public discussion on crucial topics. For this reason, it is useful to use this method also in the discussion related to impurity profiles in new innovative bio-pharmaceuticals like the mRNA vaccine. The fact that this product was introduced with an emergency authorization, which reduced the time of experimentation and due to the lack of official quality information related to some raw materials used authorizes us to use also this method.

Even if the international official regulatory agency does not find this substance in the control for release of the lots it is interesting to more deeply investigate what funded by an independent researcher in some vials of vaccine or sample patient's blood after vaccination. This reference even if not a smoking gun the same can stimulate the reasoning about the general concept involved. It is needed, to read this work, to consider the intrinsic limitation of some of the study research reported (White Paper) or the other documents.

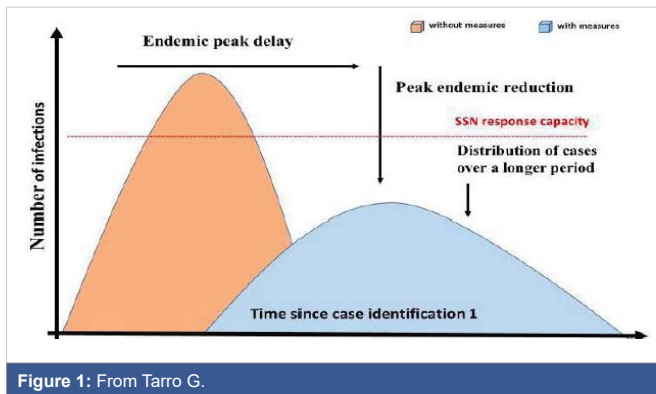
Introduction

According article

“On March 2002 a severe acute respiratory syndrome (SARS) appeared in Hong Kong. It was caused by a coronavirus, named the SARS-CoV-1. A new dangerous disease has gone global in 2012, named the SARS of the Middle East MERS),

also in this case caused by another coronavirus”. But due to other Coronavirus SARS- CoV-2 and the measure adopted the epidemiological situation was very different. Of great interest to observe the epidemiology and diffusion of cases in presence of measure or without (on peak and in delay) (Figure 1).

But what happened in December 2019 with SARS-CoV-2 COVID-19 was very impressive not only for the number



of death and the rapid diffusion but also for the public international health measure adopted involving millions of persons. (OMS, gouvernement, FDA, EMA). Airborne diffusivity of the virus or not, mask use or not, lock-down politics, social distancing, washing hand procedures, and the right use of disinfectants are only a few problems. Why were recognized the airborne properties of the last variants and not the Wu-han original virus? Interesting to see what was written in an article published in May 2020. "COVID-19 and other coronaviruses: airborne indoor and outdoor transmission? State of evidence int. J. Current Research, 12, (05), 11652-11663. International guidelines WHO reported an example to open the window before a meeting in a closing environment. (March 2020). And what kind of masks was suggested? Surgical masks or FFP2? And what efficiency of airborne virus? The same part of danger was performed by air pollution to increase the mortality rate of COVID-19 patients. What kind of contribution to the global amount of death was due to polipatology in elderly patient's proliferated whit multiple drugs instead by the virus itself? Great confusion in the first periods was related to the therapeutic measure: idrxoxiclorochin or not, heparin used to prevent clots, antivirals like Remdesivir and its efficacy, monoclonal activity vs variants and other problems.

Hydroxy-chloroquine and azithromycin as a treatment of COVID-19: results of an open-label non-randomized clinical trial Philippe Gautret, Jean-Christophe Lagier, P. Parola, Van Thuan Hoang, Line Meddeb, Morgane Mailhe, Barbara Doudier, Johan Courjon, V. Giordanengo, Vera E. Vieira, Hervé Tissot Dupont, Stéphane Honoré, j Philippe Colson, Eric Chabrière, Bernard La Scola, Jean-Marc Rolain, Philippe Brouqui and Didier Raoult "Chloroquine and hydroxy-chloroquine have been found to be efficient on SARS-CoV-2 and reported to be efficient in Chinese COV-19 patients."

But various studies evaluated then the safety and efficacy of this solution and even if not recommended by international guideline this choice introduce the debate on anti-inflammatory drugs in the early stage of the disease.

"In the 'recommended' cohort, 66 of 90 patients were given a relatively selective COX-2 inhibitor (nimesulide or celecoxib). 20 patients received other NSAIDs, including

aspirin ($n = 7$). Thirteen patients were prescribed ibuprofen or indomethacin or acetaminophen (paracetamol), bringing non-adherence to the recommended anti-inflammatory regimen to 14.4% in the cohort. On the other hand, in the 'control' cohort, none of the patients received relatively selective COX-2 inhibitors and only 1 was given aspirin ASA. In this cohort, most patients were treated with paracetamol ($n = 45$) and the remaining with ketoprofen or ibuprofen. 30% of patients in the 'recommended' cohort and 9.2% in the 'control' cohort were given corticosteroids ($p = 0.001$)" And "we found that a few simple treatments, as reported in the proposed recommendation algorithm, show benefits amongst out-patients in the early phase of COVID-19 disease." The same new variant expresses different responses to the various kinds of MABS. Paxlovid and molnupiravir were introduced in the last periods. The great debate has been related to the possibility to select a new resistant variant using some MABS. Also relate vaccine production great innovation was introduced (mRNA VACCINE, viral vector, protein inactivated et other): but what model is the best? What technology produce fewer or more problems?

For example, storing vaccines at - 80 centigrades can be a logistic problem for non-advanced countries like Africa.

Another problem was the need to receive 3 - 4 injections per year of vaccine to have an efficient cover immunity (studies are ongoing to verify this aspect) and the played effect on the human immune systems of these multiple injections. The same is related to the mRNA VACCINE: how real long is the transduction- production of the spike protein? And are there effect-related genetic inserts in the human genome of the modified mRNA used? This new vaccine was tested for the time needed (years) for carcinogenicity.

"Two GLP-compliant repeat-dose toxicity studies were performed in Wistar Han rats; one with each variant. Both studies were 17 days in duration with a 3-week recovery period. A DART study in Wistar Han rats has been completed. Safety pharmacology, genotoxicity and carcinogenicity studies have not been conducted, in accordance with the 2005 WHO vaccine guidelines" Due to some rare but severe ADRs (thrombosis, pericarditis) during the last year since introduction in the market some COVID-19 vaccine was limited to subpopulation and other vaccine updated their technical sheet introducing new contraindication or ADR possibility.

There was some recall in japan due to metal impurities and some other lots were recalled also in Italy for a determinate lot of a viral vector COVID-19 vaccine. Thrombosis and pericarditis problem was related to the spike protein and its toxicity (procoagulant, pro-inflammatory).

It was reported

"Due to their unique physicochemical properties,



graphene-family nanomaterials (GFNs) are widely used in many fields, especially in biomedical applications. Many studies have investigated the biocompatibility and toxicity of GFNs *in vivo* and *in vitro*.

Generally, GFNs may exert different degrees of toxicity in animals or cell models by following different administration routes and penetrating through the physiological barriers, subsequently being distributed in tissues or located in cells and eventually being excreted out of the bodies. This review collects studies on the toxic effects of GFNs in several organs and cell models. We also point out that various factors determine the toxicity of GFNs including the lateral size, surface structure, functionalization, charge, impurities, aggregations and corona effect, etc. Several typical mechanisms underlying GFN toxicity have been revealed, for instance, physical destruction, oxidative stress, DNA damage, inflammatory response, apoptosis, autophagy and necrosis. In these kinds of mechanisms, (toll-like receptors) TLR, transforming growth factor β - (TGF- β -) and tumor necrosis factor- α (TNF- α) dependent pathways are involved in the signaling pathway network and oxidative stress plays a crucial role in these pathways”.

“Graphene oxide has wide engineering applications in various areas, including electronics, energy storage, pharmaceuticals, nanomedicine, environmental remediation and biotechnology, because of its unique physicochemical properties. In the present work, the risk-related information of GO was evaluated to examine the potential ecological and health risks of developmental toxicity. Although the overall developmental toxicity of GO has been well characterized in zebrafish, however, its release effect at a certain concentration of living organisms with specific cardiovascular defects remains widely elusive.

Therefore, this study was conducted to further evaluate the toxicity of GO on embryonic development and cardiovascular defects in zebrafish embryos used as an *in-vivo* animal model. As a result, the presence of GO at a small concentration (0.1 - 0.3 mg/mL) does not affect embryonic development. GO at higher concentrations (0.4 - 1 mg/mL) induces significant embryonic mortality, increase the heartbeat, delayed hatching, cardiotoxicity, cardiovascular defects, retardation of cardiac looping, increased apoptosis and decreased hemoglobinization”.

“Complement activation plays the key role in vaccine-induced endothelial pathology, contributing to the endothelial molecular pathogenesis. Certain adjuvants and surfactants conjugated with vaccines trigger complement activation and cause injury to the endothelium, especially if an individual is mild to moderately deficient in ADAMTS13, which may promote venous endothelial pathology. In both COVID-19 sepsis and vaccination, the ligand spike (S) protein from SARS-CoV-2 has been thought to interact with the ACE2 receptor

on the endothelial cells (ECs) of the host and activate the complement system and produce C5b-9 complex, which can lead to endotheliopathy. It promotes both inflammation and micro-thrombogenesis by releasing inflammatory cytokines and ULVWF multimers, as seen in sepsis. The adjuvants and surfactants polyethylene glycol and polysorbate 80 and graphene oxide GO sometimes used in vaccines are known to trigger complement activation. These chemicals turn on the complement when they are attached to molecules, especially lipids. The size of the adenovirus delivered lipid-coated particle is larger than the mRNA lipid-coated particle, which may more likely lead to complement activation”.

The toxic profile of spike protein is reported by many kinds of literature on Pub med and the same multiple uses of graphene derivatives in biotechnology (carrier, adjuvants, extractive agent to purify RNA and other properties). Why did big pharma choose a toxic protein to produce a vaccine? Because it is greatly expressed on the virus surface? Because it was more simple to use? See the pathological property of spike protein in COVID-19 disease: it is due to the virus *in toto* or to the spike protein only? See also images of the *in-vitro* reaction of the spike with PTL and RBC.

The same see what happens to RBC when *in vitro* treated with graphene derivatives. And what could happen in VITT if spike protein is added with graphene (*in vitro*)? The research in this field finds many problems related to the CLIMA around this new mysterious pathology. Why physicians discovered that the use of heparin can prevent clots only after a month from the first diffusion of this pathology? If we study a textbook on INTERNAL MEDICINE of 1990-2000 the use of heparin to prevent clots in ICU was a CLASSIC argument: NOT A STRANGE THERAPY.

According to research started in Feb 2020

Heparin in COVID-19 Patients Is Associated with Reduced In-Hospital Mortality: The Multicenter Italian CORIST Study by Augusto Di Castelnuovo et al “A hyper-coagulable condition was described in patients with coronavirus disease 2019 and proposed as a possible pathogenic mechanism contributing to disease progression and lethality. We evaluated if in-hospital administration of heparin improved survival in a large cohort of Italian COVID-19 patients. In a retrospective-observational study, 2,574 unselected patients hospitalized in 30 clinical centers in Italy from February 19, 2020 to June 5, 2020 with laboratory-confirmed SARS-CoV-2 infection were analyzed. The primary endpoint in a time-to-event analysis was in-hospital death, comparing patients who received heparin (low-molecular-weight heparin [L.M.W.H.] or unfractionated heparin [U.F.H.]) with patients who did not. We used multivariable Cox proportional-hazards regression models with inverse probability for treatment weighting by propensity scores.

Out of 2,574 COVID-19 patients, 70.1% received heparin.



L.M.W.H. was largely the most used formulation (99.5%). Death rates for patients receiving heparin or not were 7.4 and 14.0 per 1,000 person-days, respectively. After adjustment for propensity scores, we found a 40% lower risk of death in patients receiving heparin (hazard ratio = 0.60; 95% confidence interval: 0.49 - 0.74; *E* - value = 2.04). This association was particularly evident in patients with higher severity of the disease or strong coagulation activation. In-hospital heparin treatment was associated with lower -mortality, particularly in severely ill COVID-19 patients and in those with a strong coagulation - activation. The results from randomized clinical trials are eagerly awaited to provide clear-cut recommendations.”

The same user or not of F.A.N.S. was under various perspectives and only recently evaluated by the research study. (It is a viral pathology or an inflammatory disease? the problem is the virus or the immune aspecific reaction of our body? and what relevance is the early stage therapy? Before starting this work it is crucial to clarify that during the COVID-19 PANDEMIA various. Wrong concepts were deeply diffused: this pathology was considered a new kind of PESTE NERA of our century and because a new infectious disease was never seen by physicians a sort of detachment from reality happened: also great healthcare professional was involved.

For many months public healthcare system was blinded, paralyzed and without a solution. It was needed various times for recognizing that great problems were due to the hyperinflammatory Reaction post-infection. The autopsies were stopped to avoid diffusion of the virus so many time occurred to verify that in many severe cases clots were present (pulmonary et other). Many drugs were used in this phase (2020) and acting in example to reduce inflammation Idroxiclorochin and others, only after various months was introduced heparin, and only in recent times have recognized the effect of anti-inflammatory drugs in the first phases of the disease. Various molecule was introduced like antivirals (remdesivir) and monoclonal antibodies since to Paxlovid, molnupiravir et other.

“The recent emergence of the Omicron BA.1 and BA.2 variants with heavily mutated spike proteins has posed a challenge to the effectiveness of the current vaccines and to monoclonal - antibody MABS therapy for severe COVID-19. After 2 immunizations of individuals with no history of previous SARS-CoV-2 infection with the BNT162b2 vaccine, neutralizing titers against BA.1 and BA.2 were 20-fold decreased compared to titers against the parental D614G virus. A third immunization boosted overall neutralizing titers by about 5-fold but titers against BA.1 and BA.2 variants remained about 10-fold below that of D614G. Both Omicron variants were highly resistant to several of the emergency-use authorized therapeutic monoclonal -antibodies MABS. The variants were highly resistant to Regeneron REGN10933 and REGN10987 and Lilly LY-CoV555 and LY-CoV016 while Vir-

7831 and the mixture of AstraZeneca monoclonal antibodies AZD8895 and AZD1061 were significantly decreased in neutralizing titer. Strikingly, a single monoclonal antibody LY-CoV1404 potentially neutralized both Omicron variants.” One great tool introduced was the vaccination strategy (mRNA VACCINE, VIRAL VECTOR and recently proteic vaccine or inactivated). But as like happen to the classic drugs it is not a good thing not to talk about impurities also in this biopharmaceutical innovative product. This is because of the manufacturing process but also due to the raw material used. Fundamental so the technique used for quality control before the release of the lots. But because according to some references of independent researchers find in some vials of COVID-19 vaccine Graphene-like particles (P. CAMBRA university AF ALMEIRA) and also in the blood of vaccinated patients (Giovannini, et al. 2022) it is interesting to verify the various approach used by this researcher as well as some interesting documents.

Because some references reported are affected by some lack of a classified scientific research work. The authors used a kind of investigative method. Every reader the end can adopt their proper opinion about this controversial topic.

Material and methods

From an observational point of view some interesting practical experiences, literature, or documents are reported related COVID-19 pathology and vaccine. Because some of these references were affected by some fundamental characteristics of scientific work. Accepted by editorial board reviewer (peer review), or are not signed, or produced not by classic. Scientific professionals and researchers or due to other relevant problems other scientific references are collected to confirm or not some aspects.

Also, White Papers are reported related to the difficulties of various researchers to see accepted their free work In a “SO CLOSED” ENVIRONMENT to the opinion out the common convention. After this review, part and experimental project hypothesis are submitted to the research in order also to produce a global conclusion related to the topic of investigation.

Results

“This article summarizes evidence from experimental studies and from autopsies of patients deceased after vaccination. The collective findings demonstrate that:

1. mRNA vaccines don't stay at the injection site instead travel throughout the body and accumulate in various organs,
2. mRNA-based COVID vaccines induce long-lasting expression of the SARS-CoV-2 spike protein in many organs,
3. A vaccine-induced expression of the spike protein induces autoimmune-like inflammation,



4. vaccine-induced inflammation can cause grave organ damage, especially in vessels, sometimes with a deadly outcome.

We note that the damage mechanism is which emerges from the autopsy studies is not limited to COVID-19 vaccines only but is completely general-it must be expected to occur similarly with mRNA vaccines against any and all infectious pathogens. This technology has failed and must be abandoned. In order to cause potentially lethal damage, the mRNA vaccines must first distribute from the injection site to other organs. That such distribution occurs is apparent from animal experiments reported by Pfizer to Japanese authorities with its application for vaccine approval in that country. Rats were injected intramuscularly IM with a radioactively labeled model mRNA vaccine, and the movement of the radio-label first into the bloodstream and subsequently into various organs were followed for up to 48 hours" [1] (Figure 2).

"In a Balb/c mouse model with both male and female mice, IV but not IM administration of COVID-19 mRNA vaccine induced a rapid onset of multifocal myo-pericarditis with elevated serum troponin, cardiomyocyte degeneration and changes of both necrosis and apoptosis, adjacent inflammatory infiltrate of mononuclear- cells, interstitial edema and visceral pericardial -calcification within 2 dpi. The IL-1 β , IFN- β , IL-6 and TNF- α expression levels generally increased significantly from 1 dpi to 2 dpi in the IV group but not the IM group. Overall, the findings have satisfied the Dallas and immuno-histochemical criteria of myocarditis. Similar to findings of cardiac magnetic resonance imaging in human myocarditis, the most prominent site of focal involvement was the pericardial side of the atrial and ventricular walls. The myopericarditis was subclinical and the changes persisted but did not progress within 14 dpi. But these histo- pathological changes of myopericarditis deteriorated and became rather diffuse after the second dose boosting with either IV or IM administration 14 days after the first dose of priming."

Immunology infectious diseases

"Vaccine-Induced Immune Thrombocytopenia (VITT) is a new syndrome occurring primarily in healthy young adults, with a female predominance, after receiving the first dose of

the ChAdOx1 nCoV-19 vaccine. We describe VITT syndrome as characterized by severe thrombosis and thrombo-cytopenia found in our patient, with a fatal outcome.

A 58-year-old man, after 13 days from the first administration of the ChAdOx1 nCoV-19 vaccine (AstraZeneca), presented with abdominal pain, diarrhea, and vomitus. Lab. tests revealed severe thrombocytopenia, low fibrinogen serum levels and a marked increase in D-dimer serum levels. The patient quickly developed a multiple organ failure MOF, till death, 3 days after the hospital admission. At histology, in the lungs, inter-alveolar septa appeared thickened with micro-thrombi in the capillaries and veins. Inter-alveolar septa appeared thickened and showed vascular proliferation. Thrombi were detected in the capillaries of glomerular tufts. In the hearth, thrombi were observed in veins and capillaries. In the liver, voluminous fibrin thrombi were diffusely observed in the branches of a portal- vein. Micro-thrombi were also found in the vasa vasorum of the wall of the abdominal aorta. In the brain, micro-thrombi were observed in the capillaries of the choroid plexuses. Diffuse hemorrhagic- necrosis was observed in the intestinal wall with marked congestion of venous - vessels.

In our patient, the majority of data necessary for a VITT final diagnosis were present: thrombo-cytopenia and thrombosis in pulmonary, portal, hepatic, renal and mesenteric -veins, associated with a marked increase of D-dimer serum levels. The finding of cerebral thrombosis in choroid- plexuses, is a new finding in VITT. These features are suggestive of a very aggressive form of VITT."

Case report - vascular neurosurgery

16 November 2021. Intracerebral hemorrhage due to vasculitis following COVID-19 vaccination: a case report Ryuhei Takeyama, K.Fukuda, Yuki Kouzaki, T.Koga, Shuji Hayashi, H. Ohtani, Tooru Inoue Acta Neurochirurgica volume 164.

"Our study is the first to report a case of ICH intracerebral hemorrhage due to vasculitis following COVID-19 vaccination".

Nanotechnological investigations on COVID-19 vaccines. White Paper on vaccines' compositions The Scientists' Club (NOT SIGNED ARTICLE) "4 "vaccines" were analyzed developed for Corona Virus disease (Comirnaty Pfizer-BioNTech, Vaxzevria by Astrazeneca, Janssen by Johnson & Johnson), Moderna) using different kinds of instrumentation and protocols of preparation according to new nanotechnological approaches. Optical Microscope, Dark-Field Microscope, UV absorbance and fluorescence spectroscope, Scanning Electron Microscopes, Transmission Electron Microscope, Energy Dispersive A spectroscope, X-ray Diffractometer and Nuclear Magnetic Resonance NMR instruments were used to verify the "vaccines" morphologies and contents. For the high-technology measurements and the

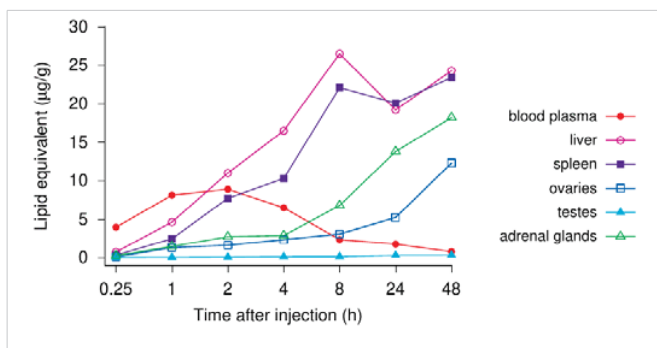


Figure 2: Form M. PALMER et al.



care of the investigation, all the controls were activated and reference measurements were adopted to obtain validated results. The analyzed “vaccines” present components that are not mentioned in the technical data-sheet and whose presence does not seem to have to do with the concept of the vaccine. Since they are not included in the documentation presented to the Governmental organizations (FDA, EMA, etc.) for legal approval aimed at commercialization and human use, they seem to be contaminated probably due to the industrial process of manufacturing. It seems that nobody controlled the final product before its distribution. That means that consumers are not informed of the real content of the products.

Possible side effects may be due to the injection of those contaminants into the body. It must be observed that the components that are not declared but we identified are not bio-compatible and some have also a mechanical impact once they are inside the blood circulation, especially in contact with the vascular endothelium. The entities present in Pfizer and Astrazeneca “vaccines”, identified by the ESEM images, can represent a risk for the human body. They can be responsible for the formation of thrombi since they are thrombogenic. A further risk is represented by the extravasation of the particles with an ensuing possible hemorrhage. Once in the blood circulation, the particles can be carried also to the brain. In this case, the patient can suffer from a stroke and/or a cerebral hemorrhage. If the damage of the endothelium caused by the particles occurs in the heart, there is a high probability of contracting myocarditis. In addition to all that, the toxicity of graphene is well-known. The presence of non-biocompatible organic-inorganic foreign bodies in the blood circulation can be responsible for a nano-bio-interaction that can induce severe health problems” [2] Scanning & Transmission Electron Microscopy Reveals Graphene & Parasites in CoV-19 Vaccines. February 5th, 2021.

“Steps of Analysis of Vaccine Aqueous Fractions Refrigerated samples were processed under sterile conditions, using a laminar flow chamber and sterilized lab ware.

The steps for analyses were:

1. Dilution in 0.9% sterile physiological saline (0.45 ml + 1.2 ml).
2. Polarity fractionation: 1.2 ml hexane + 120 ul of RD1 sample.
3. Extraction of the hydrophilic aqueous phase.
4. UV absorbance and fluorescence spectroscopy scanning [3].

New Quality-Control Investigations on Vaccines: Micro - and Nanocontamination. Antonietta M Gatti, S. Montanari. “The study was aimed at verifying possible physical contamination. To do that, we performed a new kind of investigation based on observations under a Field Emission Gun Environmental

Electron Scanning Microscope (FEG-ESEM, Quanta 200, FEI, The Netherlands) equipped with the X-ray microprobe of an Energy Dispersive Spectroscopy (EDS, EDAX, Mahwah, NJ, USA) to detect the possible presence of inorganic, particulate contaminants and identify their chemical composition.

A drop of about 20 microliters of vaccine is released from the syringe on a 25 mm-diameter cellulose filter (Millipore, USA), inside a flow cabinet. The filter is then deposited on an Aluminum stub covered with an adhesive carbon disc. The sample is immediately put inside a clean box to avoid any contamination and the box is re-opened only for the sample to be inserted inside the FEG-ESEM chamber. We selected that particular type of microscope as it allows us to analyze watery and oily samples in low vacuum (from 10 to 130 Pa) at high sensitivity.

When the water and saline the vaccine contains are evaporated, the biological/physical components emerge on the filter and it is then possible to observe them. This type of microscope (low-vacuum observations) prevents possible sample contamination and the creation of artifacts. The observations are made with different sensors (SE: secondary-electron sensor and BSE: backscattered-electron sensor) and are performed at a pressure of 8.9 e-1 mbar, at energies ranging from 10 to 30 kV to detect the particulate matter’s size, morphology, and its elemental composition. The method identifies inorganic bodies with a higher atomic density (looking whiter) than the biological substrate. So, organic entities are visible and easy to distinguish from inorganic ones. The method cannot distinguish between proteins and organic adjuvants (squalene, glutamate, proteins) or viruses, bacteria, bacteria’s DNA, endotoxins and bacteria’s waste, but their comparatively low atomic density allows us to identify these entities as organic matter. In some vaccines, the organic matter contains white-looking debris named aggregates, while a high concentration of inorganic debris is called a cluster.

Single inorganic particles or organic-inorganic aggregates are identified, evaluated and counted. The counting procedure is repeated 3 times by 3 different operators, with an error lower than 10%. When a layer of salts (NaCl or Aluminum) is detected, we record the situation but we do not do body count [4].

This editor is inside Beall’s LIST, but also in open literature it is possible to find the good article and some. Editors in this list are also indexed by the Harvard library. From OPEN ONLINE 29 Jan 2022: a new relevant Italian web journal. “La Polizia Metropolitana del Regno Unito ha semplicemente ricevuto una denuncia da parte di uno o più cittadini, registrando l’apposito numero della pratica senza avviare per forza un’indagine. Non risultano, affatto, perquisizioni da parte delle Forze dell’Ordine nei centri vaccinali britannici, così come non c’è alcun ordine di arrestare presunti colpevoli di un reato non riscontrato dalle autorità.”



Regarding the CRN 6029679/21

“Mr. Hyland reminded Cressida Dick that in order to issue a crime reference number the Police Officer has to be satisfied on the balance of probabilities on the evidence presented that a crime or crimes have been committed. The guidelines are clear. A video showing the Duty Inspector at Hammersmith Police Station confirming a live investigation, the crime number 6029679/21 is below, Mark Sexton adds that evidence has been and continues to be submitted to Hammersmith CID. A Duty Inspector Confirms Live Investigation.

A video from Mark Sexton was recorded at Hammersmith Police Station, where the Duty Inspector confirms the live investigation. The crime number 6029679/21 is attached and evidence has been and continues to be submitted to Hammersmith CID. On the 27th of January 2022, a message was shared from lawyers, Philip Hyland, Lois Bayliss and retired police constable Mark Sexton. “Today 200 further statements were submitted to CID at Hammersmith Police. Whistleblowers’ statements included from GPs, vax-damaged victims and NHS staff citing coercion and Blackmail. Also, significant evidence of the Manslaughter/Murder of victims involved in the Hydroxychloroquine trials, where excessive doses were given to discredit the drug in order to bring in the emergency powers.”

A video showing the Duty Inspector at Hammersmith Police Station confirming a live investigation, the crime number 6029679/21 is below, Mark Sexton adds that evidence has been and continues to be submitted to Hammersmith CID (Figure 3).”

From REUTERS: “The Metropolitan Police says it has not launched a criminal investigation into Britain’s rollout of COVID-19 vaccines. A crime reference number can be issued after a person reports an alleged crime – but this does not automatically mean an investigation has been opened. And in the report “Qualitative Evaluation of Inclusions in Moderna, AstraZeneca and Pfizer COVID-19 vaccines” has

been presented to the Police involved in the UK Criminal Case, 6029679/21, it was written:

“Which is said to provide them with more than enough reasonable suspicion that serious indictable offenses have been committed regarding the administration of experimental treatments. Nano forms of Graphene dominated the counts in all the samples. They were found to be present both in roundish shapes and long spiculate shapes. The rounded forms were almost entirely found in association with nanoparticles. These nano Graphene spicules were impossible to be evaluated by Raman, as their radius was measurably smaller than the resolution of the laser. The 2 clear Raman signals were obtained from 2 objects. The flat ribbon-like inclusions exhibited clear graphene spectra integrated with the spectrum of polyethylene glycol and other minor compounds. The other clear signal was obtained from a calcite microcrystalline form with a distinct strong peak at 1100 cm⁻¹.

The carbon composite forms had a highly complicated signal with a clear graphene peak at 1600 cm⁻¹, but other peaks at 1100 cm⁻¹ make the signal quite difficult to separate. (Page 19 of the report) Further analysis is currently underway to isolate these signals and identify the other components of this form of carbon. Some nano amorphous carbon forms showed a clear Graphene signal however, these forms also exhibited fluorescence which masked the Graphene peak.

“The signals of amorphous carbon-like materials were extremely complex with carbon along with iron oxide and several other compounds in them. The graphene complex 1 is graphene with polyethylene glycol signal forming the bulk of the spectrum. The graphs obtained by tracking the movement of these particles were typical of self-assembly systems composed of particles coming together under the influence of various intermolecular forces (Figure 3). (Page 21 of the report).

An interpretation is here drawn in light of the knowledge, that these particles carry the required mRNA load and under the designated conditions, exhibit the self-assembly characteristics using a combination of non-covalent intermolecular interactions such as electrostatic, hydrophobism, van der Waals and pi effects. (Page 21 of the report) The self-assembly processes seem to be driven by a constantly changing competitive environment which is driven by the kinematic and thermodynamically driven cursours following a typical LaMer model. The seeding of the process seems to be around the nucleic acid form of molecules and Graphene nano-objects. According to Kulkarni, et al. (2018), the growth of the particle relies on the pH neutralization and migration of neutral, unbound ionizable lipid towards the LNP core regardless of the payload (mRNA, minicircular DNA or pDNA).

These particles were observed in ubiquity across the sample preparations and each of these structures began

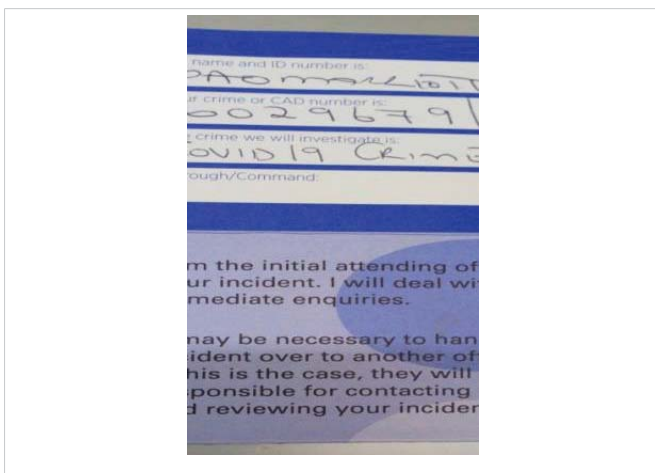


Figure 3:



with the formation of a small seed-like particle to which the surrounding particles aggregated, based on hydrophobic interactions. (Page 22 of the report) What seems to be obvious through observation is that hydrophobic interactions appear to be the dominant driving force of the LNP growth and electrostatic interactions guide the seed formation and stability of the final assembly. The core of the nanoparticles was seeded with carbon nanotubes and carbon nano-objects: formed of some form of detrital carbon particles. (Page 28 of the report). Given, the high concentration of graphene nano-objects in all 4 vaccines, as the nanoparticles move through the medium, they must be incorporating not only graphene nanodots but also nanoscrolls, thereby increasing their binding efficiency and their ability to carry their payload (page 43 of the report) ” [5].

FREEDOM OF INFORMATION (SCOTLAND) ACT 2002. “I refer to your recent request for information which has been handled in accordance with the Freedom of Information (Scotland) Act 2002.

For ease of reference, your request is replicated below together with the response. I am putting in a freedom of information request dated 17/01/2022 to seek information about criminal complaint 6029679/21 in the public interest around vaccines and crimes that have been committed against the British public.

1) On the 20th December 2021 a crime was reported to Hammersmith Police station ref 6029679/21, this made allegations of serious crimes against the British public. Can you confirm that the Chief constable has been made aware of this investigation?

The Metropolitan Police Service received a complaint and a number of documents on 20 December 2021. The MPS provided the complainers with a crime reference number and is reviewing the content of the documents. The MPS has been clear that nothing has been found to suggest any offenses or grounds for an investigation, and that no such investigation is taking place. This has been communicated to all Chief Constables in the UK”. From Legislative assembly for the Australian Capital Territory standing committee on health and community wellbeing. Mr. Johnathan Davis MLA (Chair), Mr. James Milligan MLA (Deputy Chair), Mr. M. Pettersson MLA Inquiry into Public Health Amendment Bill 2021 (No 2) Submission Number: 321 Date Authorised for Publication: 18 January 2022.

“UK police launch major investigation into mRNA COVID-19 vaccine-related corporate crimes and threats to public health. Metropolitan Police Crime Number: 6029679/21. International Criminal Court (The Hague) Case number: OTP-CR-473/21.

“The case was lodged on 20th December 2021 by Sam White MD; Philip Hyland (PJH Law); Lois Bayliss (Broad Yorkshire

Law) and retired policeman Mark Sexton the world’s largest-ever international criminal investigation is now under-way, involving Hammersmith Police and The Metropolitan Police. The UK police accepted the supporting information and agreed there is enough evidence to proceed under the above crime number.”

“The case was lodged on 20th Dec. 2021 by Sam White MD, Philip Hyland (PJH Law), Lois Bayliss (Broad Yorkshire Law) and retired policeman Mark Sexton. Requests for further assistance have been made to international lawyer Robert F Kennedy Jnr (nephew of J F Kennedy), Dr. Reiner Fuellmich (German corporate lawyer who won the emissions scandal case against Volkswagen Audi), Dr. Michael Yeadon (Former Pfizer Vice President), plus countless other doctors, professors, virologists, biologists, data experts and lawyers nationally and internationally; some of whom have already made direct contact with the police and have been acknowledged by Superintendent Simpson (Assistant to Cressida Dick, Head of The Metropolitan Police).”

“In November 2020 Dr. Andreas Noack, a German chemist and one of the EU’s top graphene experts, released a video explaining that he had discovered graphene hydroxide contained in the COVID-19 experimental treatments. He described how the graphene hydroxide nanostructures injected into the human body act as ‘razor blades’ inside the veins of recipients and how they would not show up on an autopsy or normal toxicology tests are given their atomic size. On 26th November 2021, just hours after publishing his latest video about graphene hydroxide, he died in suspicious circumstances. Professor Dr. Pablo Campra, University of Almeria, Spain also examined COVID-19 experimental treatments in November 2021 using Micro-Raman Spectroscopy, the study of frequencies. He too confirmed the presence of graphene Stage 4 – Raman sampling and preparation Subsamples from the original vials were obtained for Raman spectroscopy. These were transferred onto standard slides using sterilized glass pipettes. The slides were left to dry under glass chambers inside a fan-heating oven before being taken for examination to the Raman Laboratories. The carbon composite forms had a highly complicated signal with a clear graphene peak at 1600cm⁻¹, but other peaks at 1100 cm⁻¹ make the signal quite difficult to separate. Further analysis is currently underway to isolate these signals and identify the other components of this form of carbon. Some nano amorphous carbon forms showed a clear Graphene signal however, these forms also exhibited fluorescence which masked the Graphene peak” [5].

From January 10, 2022 by Michael Ducharme

Dr. Andreas Noack’s Warning to the World about Covid Jabs. Andreas Noack a German chemist Ph.D. and carbon expert. Dr. Noack: from the video (transcription) his personal opinion. “There is a professor from the University of Almeira,



Professor Dr. Pablo Campra. He studied the vaccines for the presence of graphene oxide using Micro-Raman Spectroscopy. It is the study of frequencies. There are frequency bands. 2 of those bands are important. They show that it is not graphene oxide, but rather graphene hydroxide.

I would like to explain what this graphene hydroxide is. It is mono-layer activated carbon. There are C6 rings. He found it in all samples. Every corner is a carbon atom. This is on a nanoscale. I'll cut this up a bit here. If it is 50 nm long, there are 500 rings in a row. These are hydroxy groups (OH). In graphene oxide, you have double-bonded oxygen, and in graphene hydroxide, you have an OH group. The electrons are delocalized (fully mobile). The piece is 50 nm long but only 0.1 nm thick. These c6 structures are extremely stable. You can make brake pads out of this. It is not biologically decomposable.

These nanoscale structures can best be described as razor blades. These razor blades are injected into the body. Nanoscale, tiny razor blade, only 1 atom layer thick. Relatively wide and high. They are razors, biologically not decomposable. The OH (hydroxy) groups can split off a proton. When the proton is split off, they gain a negative charge spread out over the whole system. It is basically acid. It suspends well in water because of the negative charge. So these razor blades spread homogeneously in the liquid. This is basically Russian roulette. You can see it very clearly in this woman. It cuts the blood vessels. The blood vessels have epithelial cells as their inner lining. The epithel is extremely smooth, like a mirror. And it is cut up by these razor blades. That is what's so dangerous. If you inject the vaccine into a vein, the razors will circulate in the blood and cut up the epithel. The mean thing is that toxicological tests are done in Petri dishes. And there you will not find anything. These are the sharpest imaginable structures because they are only 1 atom layer thick". This is a huge molecule that is extremely sharp. I am a specialist in activated carbon. In my doctoral thesis, I converted graphene oxide to graphene hydroxide. I joined the world's leading activated carbon manufacturer. After a year I was in charge of new activated carbon products. We bought a small company near Newcastle, England. I was in charge of "new carbon products", Europe-wide. I was in application scouting. If you perform an autopsy on the victims, you will not find anything. Toxicologists do their tests in Petri dishes. They can't imagine that there are structures that can cut up blood vessels.

There are pictures of coagulated blood coming out of the nose. People bleed to death on the inside. Especially the top athletes who are dropping dead have fast-flowing blood. The faster the blood flows, the more damage the razors will do. As a chemist, if you inject this into the blood, you know you are a murderer. It's a new material, toxicologists are not aware of it yet. Suddenly it makes sense that victims look like this. And that top athletes with high blood circulation, completely healthy, suddenly drop dead. You see people

collapse immediately after vaccination and have a seizure. These people had bad luck in Russian roulette. Very likely, a vein was hit by the syringe.

Dr. Noack: Off-label means the vaccination is not approved. Yet they inject it already. You can only call this a death shot at this point.

Dr. Szekeres: "After extensive consultation with a pediatrician, this is."

Dr. Noack: A pediatrician? Do you think a pediatrician understands what graphene oxide is? There is another interview where he says he thinks it is "good" from a medical standpoint to "vaccinate" the population by force.

An important concept of science is disputation. A scientific debate. The basis of medicine or pharmaceuticals is chemistry. This doctor has no idea about chemistry. Completely new substances unknown to nature are brought in (with the vaccines). Everyone is talking about the messenger RNA which has complex effects. The theory of mRNA is complex. But every chemist understands what this (the graphene hydroxide) does. You see the mRNA story is possibly a diversion. I cannot imagine anyone will be able to give me as a carbon specialist a proper explanation of why these carbon razor blades are in the vaccine. This is war. They distract us with the messenger RNA. But people cannot collapse that quickly from that, He claims to be a specialist. Apparently, the Austrian doctors don't have a smarter guy than this one. He is a doctor who doesn't understand chemistry, or he is a criminal, or he is a mass murderer. After the Spanish doctor's study, nanoscale graphene (hydroxide) is officially in the vaccine. So it is clear that razor blades are injected. So he is probably incompetent. You have to weigh the risk. How dangerous is corona? How dangerous is the injection? This guy wonders whether people should be tied up before being injected. And he's the top doctor. I am not some guy in the carbon field. I doctored in this area. I worked for the world's biggest activated carbon manufacturer. In the area of new carbon products, I was the only expert in Europe. I'm pretty much the only European who visited the other experts in Pittsburgh. After this, I started my own activated carbon company. I resinified paper and turned it into activated carbon membranes. You could cut your hands with this charred paper It was extremely sharp. I have a good idea of what graphene hydroxide does.

As a chemist, I vouch for the fact that these are nanoscale razor blades. You can make brake pads from carbon structures that last forever. This material has zero biological degradability. It stays in the body forever. Even if people don't drop dead immediately, it cuts up the blood vessels little by little. It destroys the heart. All the heart attacks. All the strokes. As a doctor, you have to ask, where is this coming from? If you understand that razors are being injected, it is clear why all cardiovascular diseases appear. The heart is cut up. The brain is cut up. Blood vessels are cut up. These graphene structures



(AKA monolayer carbon or monolayer graphite) are so stable, every chemist knows this. They are not degradable. The structure is 50 nm long and 0.1 nm thick. Of course, it is a razor. Every chemist knows it is.

The epithel cells are extremely smooth for a good reason but become rough when cut up like this and things stick to it. A normal toxicologist tests using a Petri dish. This material is declared an “experimental vaccine” for a reason. They don’t know what will happen. Every vaccinated subject has to sign that they take full responsibility. It will take 50 years until the contracts with Pfizer will be published. What is in these contracts? Why 50 years? In Germany or Austria, there is nobody with my expertise. The leading German carbon specialist Dr. Harmut von Kienle was my mentor for 1 year. I wrote. My thesis in this field. I started my company in this field and won a business plan competition in Wolfsburg. I won DM 175,000 (87,500 Euros) in the competition. I received venture capital to the tune of 6 million DM (3 million Euros). I had 10 developers develop these new carbon products. I know what I am talking about.

Sir Karl Popper explained the fundamentals of science. Hypothesis – refutation. Popper said that it is better to kill theories than to kill humans. The whole population is supposed to be injected. Exactly like Karl Popper says, if you continue to ride this murderous theory, you have to be extremely careful” [6] (Figures 4,5).

“Dr. Andreas Noack is 1 of the foremost experts on

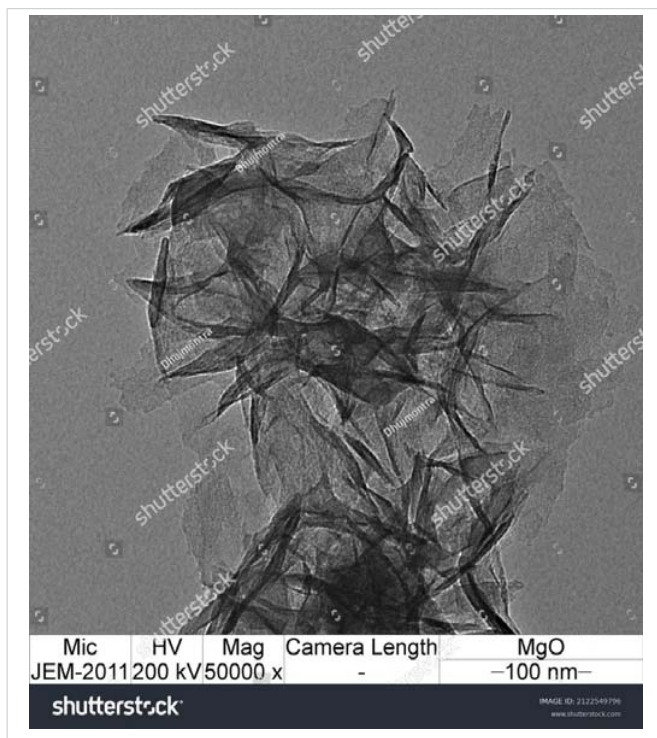


Figure 4: Graphene oxide sheet image by transmission electron microscope. Science and technology concept of smart material in the future.

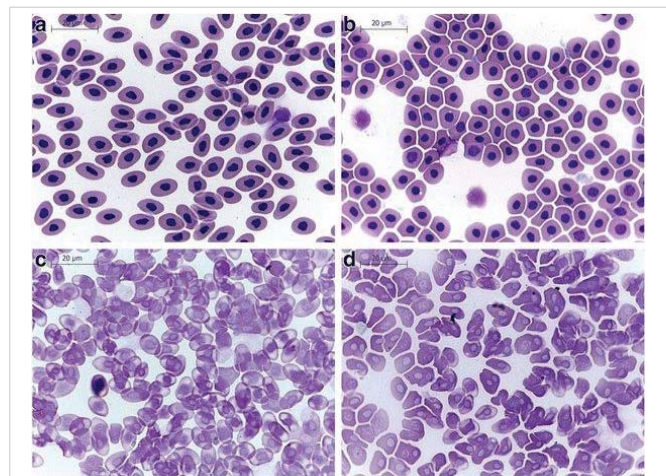


Figure 5: Red blood cell morphology by light microscopy. a Control (without treatment). b Pristine graphene. c Oxidized graphene—GO. d Reduced oxidized graphene—rGO. Black arrows point to GO agglomerates; red arrows point to rGO agglomerates. From the Interaction of different forms of graphene with chicken embryo red blood cells

graphene in the world. He has studied data from Professor Pablo Campra from the University of Almeida. Dr. Campra used micro-Raman spectroscopy to analyze the contents of the Pfizer-BioNTech COVID-19 vaccine. Dr. Noack reviewed Dr. Campra’s findings and found that the Pfizer-BioNTech COVID-19 vaccine contains graphene hydroxide. Dr. Noack confirmed the findings of Robert Young, M.Sc., D.Sc., Ph.D., who used phase-contrast microscopy, transmission and scanning electron microscopy, and energy-dispersive x-ray spectroscopy to analyze the following COVID-19 vaccines: Pfizer –BioNTech mRNA Vaccine, the Moderna-Lonza mRNA-1273 Vaccine, the Serum Institute Oxford Astrazeneca Vaccine and the Janssen COVID-19 Vaccine. Dr. Young concluded: The Pfizer, Moderna, AstraZeneca and Janssen drugs are NOT “vaccines” but complexed Graphene Oxide nanoparticulate aggregates of varying nano elements attached to genetically modified nucleic acids of mRNA from animal or Vero cells and aborted human fetal cells.

Dr. Noack states that the graphene hydroxide in the vaccine is a nanoparticle that is 50 nm long and 0.1 nm thick. Dr. Noack explains that the nanoparticles of graphene hydroxide act as kind-of razor blade slicing and dicing as they move through the body. Graphene hydroxide is not biodegradable. It remains circulating in the blood indefinitely. Dr. Noack explains that the heart and brain are organs that are particularly susceptible to damage from graphene hydroxide. Dr. Noack opines that is why there has been a rash of young athletes dropping dead from heart- attacks. The blood of the young athletes is efficiently coursing throughout the body causing unseen damage until they unexpectedly drop dead. Dr. Noack explains that doctors performing autopsies on victims of the vaccine are not going to find the graphene hydroxide because they are looking for something biological as the cause of death” [7].



Form Great mountains publication Poisonous Graphene Oxide Found in COVID-19 Vaccines August 30, 2021, by Edward Hendrie. “Robert Young, M.Sc., D.Sc., Ph.D., used phase-contrast microscopy, transmission and scanning electron microscopy and energy-dispersive x-ray spectroscopy to analyze the following COVID-19 vaccines: Pfizer–BioNTech mRNA Vaccine, the Moderna-Lonza mRNA-1273 Vaccine, the Serum Institute Oxford Astrazeneca Vaccine and the Janssen COVID -19 Vaccine. Dr. Young concluded:

The Pfizer, Moderna, Astra-Zeneca and Janssen drugs are NOT “vaccines” but complexed Graphene Oxide nanoparticulate aggregates of varying nano elements attached to genetically modified nucleic acids of mRNA from animal or Vero cells and aborted human fetal cells. Dr. Young found the presence of graphene oxide using advanced microscopy. Some would consider that presumptive proof but not confirmatory. Some suggest that mass spectrometry - analysis is necessary to confirm Dr. Young’s findings. It is fair to say that Dr. Young’s advanced microscopy evidence, along with the other circumstantial evidence, establishes at least probable cause that the COVID-19 vaccines contain graphene oxide GO” [8].

From great mountain publications. Japan Ministry of Health Pulls Millions of Moderna COVID-19 Vaccine Vials After They React to Magnets September 1, 2021, by Edward Hendrie “YUMIKO URASAKI and YUKO NOMURA, Nikkei staff writers, reported on August 26, 2021, that the Japanese Ministry of Health, Labor and Welfare has pulled 1.6 million vials of the Moderna vaccine from circulation in Japan because the vaccine was found to contain a substance that reacts to magnets. The article states that “Prime Minister Yoshihide Suga told reporters on Thursday afternoon that he had instructed the ministry to look into the case with safety as the top priority. Some suggest the vials could have been contaminated with some kind of metal. But Tyler Durden, reporting for Zero Hedge, states that “some believe the reported magnetism can be explained by graphene oxide GO, a magnetic nano-particle studied for its use as a drug delivery platform and other biomedical applications.” Indeed, graphene oxide GO has been studied as an ingredient for use in hydrogels. Hydrogels are used to protect the otherwise fragile mRNA in the COVID-19 vaccines. One of the characteristics of graphene oxide GO is that when it is stacked and twisted, it develops a rare form of magnetism. Angus Liu reported on February 17, 2021. For Fierce Biotech, “Scientists at China’s National Center for Nanoscience and Technology (NCNST) have designed a hydrogel to deliver an mRNA vaccine with an immune-stimulating adjuvant” [9].

And from the article

“The Korea Veritas Doctors (Ko.Ve.Docs) for COVID-19 previously found certain foreign materials and moving parasite-like entities in the Pfizer and Moderna mRNA COVID-19 vaccines as those vaccines were warmed to near room temperature (Jeon, 2022). Here we report on similar

foreign materials found in samples of centrifuged blood from 8 COVID-19 vaccine recipients as contrasted with 2 individuals who did not receive any COVID-19 vaccine and who had none of the foreign materials in their blood plasma. The preponderance of evidence suggests that the foreign -materials found in the COVID-19 vaccine recipients in the study reported here were injected into their bodies when they received one or more doses of the COVID-19 vaccines. Blood samples were prepared and observed under a stereomicroscope after being centrifuged at 2,200 rpm for 30 minutes. From the 8 COVID-19 vaccine recipients: 6 plasma samples contained a multi-layered disc of un-identified composition; 3 samples contained beaded coil-like materials; 1 plasma sample contained a fibrous bundle of similar appearing beaded foreign material; and a different group of 3 samples had crystal-like formations of foreign -material. The various shapes and sizes of foreign materials in the centrifuged plasmas of COVID-19 vaccinated individuals closely resembled the shapes and sizes of foreign materials previously observed directly in the vaccines themselves” [10-17].

From the document: The most dangerous drugs ever unleashed on the human population in the history of medicine Brendan Godwin; 29th September 2021; Australian Bureau of Meteorology (Retired) <https://doi.org/10.31237/osf.io/pd3cj> Thesis commons

“With regard to thrombosis. Dr. Jane Ruby was interviewed by Stew Peters who showed examples of what the deteriorated blood looks like when exposed to Graphene Oxide” [18] (Figure 6).

Vapors strength: Can detect very rare adverse events that may not be detected before licensure Generates hypotheses Helps identify new and/or rare adverse events following immunization Helps determine if further investigations are needed Monitors trends of already-known adverse events Monitors vaccine lot safety.

Vapors limitations: Underreporting Stimulated reporting due to media attention and other factors Possibly incomplete and inaccurate data on the report form Lack of availability of

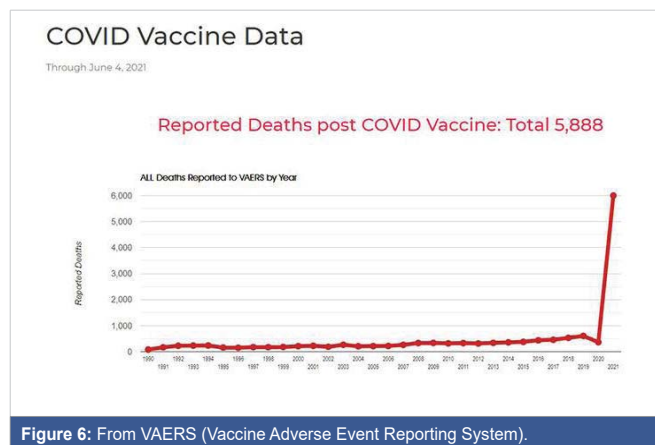


Figure 6: From VAERS (Vaccine Adverse Event Reporting System).

denominator data No information on the number of persons vaccinated No information on background rates of adverse events in the population VAERS generally cannot determine if an adverse event report was coincidental or caused by a vaccine.

“Graphene oxide GO suspensions in solvents are the most important feed-stocks for preparing GO-based composites and the dispersion state of GO on the micro-scale in the solvent is a dominating factor in determining the physical properties of GO-based composites. The morphology of GO sheets in solvents has hardly been reported due to the limitation of the characterization methods. We report that the sheet thickness and lateral size of GO in the solution can be identified using optical microscopy (OM) within 2 minutes. The dispersion states of graphene oxide GO, including stretched flakes, scrolls, crumbles and agglomerates, can also be distinguished. The dispersion - states, which change with the Ph- value and ionic strength of the solvent, are closely related to the dispersion stability of the graphene oxide GO suspension and the morphology of the GO/PVA composite. We believe that the fast observation and identification of GO sheets and their structural features in solvents, enabled by OM, opens up a new avenue to studying GO-based composite materials in liquids.

Fluorescence microscopy is capable of imaging the GO species in solution by mixing with fluorescent dyes to enhance the optical contrast of the GO sheets. The absorption of dye molecules on GO graphene oxide sheets changes the surface charge of GO, thereby affecting the dispersion state of GO sheets in solvents, and this may lead to ambiguous results in evaluating the dispersity of GO graphene oxide and its effect on the physical properties of GO-based composites” [19] (Figure 7-11).

“Highlights Compared to an aqueous dispersion, an increase in the D.M.S.O. content induces a blue shift of the GO’s $n-\pi^*$ transition band peak. A shift of the $n-\pi^*$ transitions peak is very likely due to specific interactions of the solvent molecules with GO’s carboxyls. The Wallace-Katz analysis

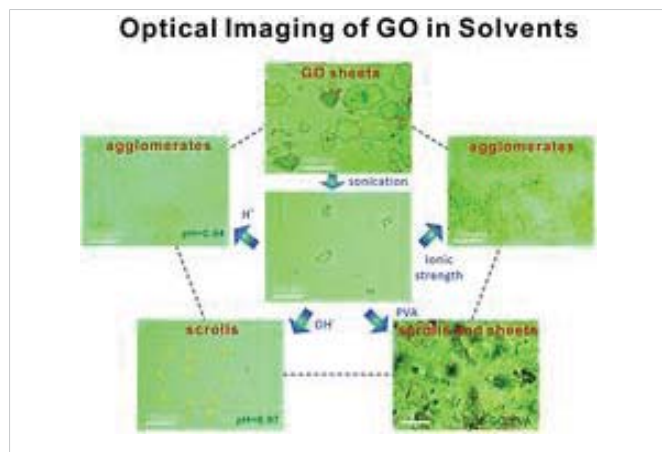


Figure 7:

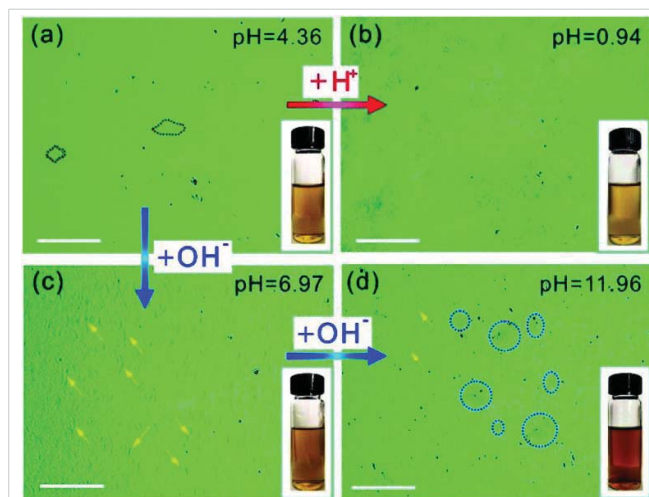


Figure 8: (a–d) OM images of GO graphene oxide suspensions of 0.1 mg mL⁻¹ at different pH values. The red dashed lines in (a) mark GO sheets in the stretched state, the yellow- arrows in (c) and (d) mark GO scrolls, and the blue dashed circles in (d) mark crumbled or agglomerated GO. Insets: photographs of the GO suspensions in water at different pH values. Scale bars are 100 μm.

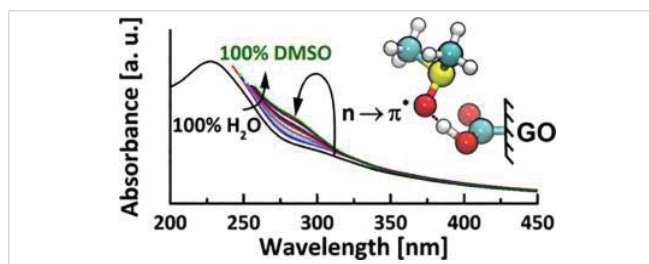


Figure 9: From reference n. 20.

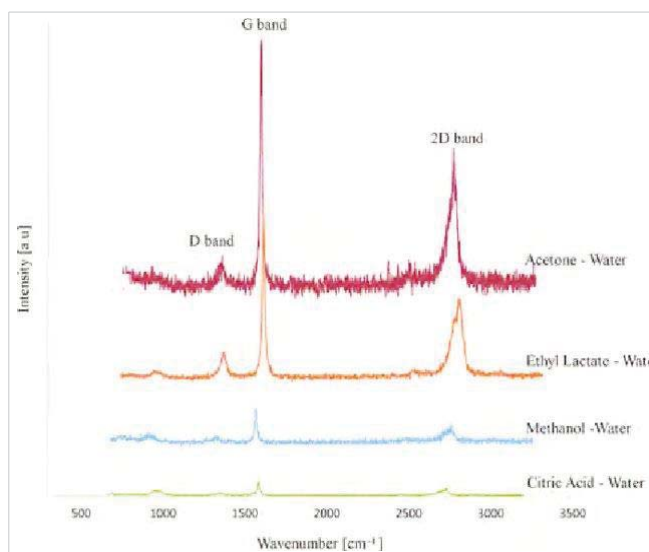


Figure 10: Raman spectra RS of graphene exfoliated via different solvent systems. An increase in the D peak is observed as the lowest R-value of a particular system decreases. This suggests better exfoliation due to the presence of more edges as more layers are exfoliated from bulk- material. It can be seen in Figure that the D band which is associated with edge defects increases gradually when graphene was exfoliated in solvent-water systems that have to decrease Ra- values. This is characteristic of better exfoliation due to the formation of the new edges which leads to a more pronounced edge effect reflected by the increase in the D- peak.

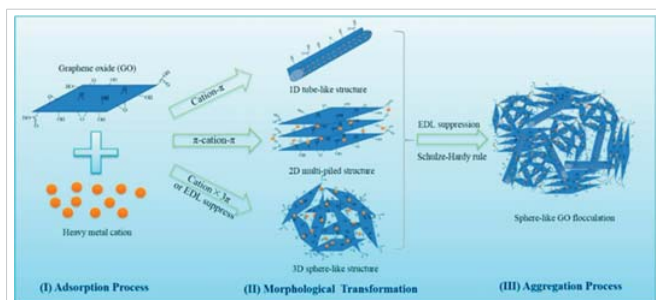


Figure 11: From Environ. Sci. Technol. 2016, 50, 20, 11066-11075 Proposed interactions of heavy metal cations with GO nanosheets in 3 steps: (1) adsorption of heavy metal onto GO nano-sheets; (2) formation of 1D-, 2D-, and 3D-like structures; and (3) aggregation of sphere-like flocculation

indicates the co-existence of 2 GO absorbing species in DMSO/ water mixtures. In water-rich and D.M.S.O. - rich mixtures GO is preferentially solvated by H₂O and DMSO molecules, respectively. QC calculations reveal a principal possibility of substitution of the water-covered GO surface by DMSO molecules” [20].

“One cation can interact with 1-3 aromatic planes of the graphene nano-sheets through cation \times 1π , cation \times 2π , and cation \times 3π . This electronic interaction is strong enough to deform the benzene ring. Strong cation- π interactions bend and roll the aromatic plane of GO graphene oxide and form a more thermodynamically favorable 1D tube-like structure when cations interact with the GO nano-plane in a certain direction. As a result, the hydrophilicity and negative charges of GO particles weaken. In addition to the common cation- π interaction model, cations can induce aromatic- planes to form a $\pi \times$ cation \times π structure (i.e., cation \times 2π). Cation \times 2π strengthens the π - π interactions and further governs the macromolecular structure. Cations can link or induce aromatic planes to form face-to-face multiplied structures through cation \times 2π . Strong cation clusters can attract aromatic planes in all directions to form a novel interaction of cation \times 3π . As a result, multi - or monolayer GO graphene oxide nanosheets assemble around the cation cluster by forming a cation \times 3π cage-like structure.

In contrast, except for the cation \times 3π inducement, the 3D GO bulk aggregate can be formed with the presence of Mg²⁺ via EDL suppression because Mg²⁺ displayed weak affinity to the GO graphene oxide plane. The combined interactions of strong π - π interactions and cation \times 3π between aromatic planes can activate 2D graphene oxide GO into a tight sphere-like 3D aggregation, as shown in the AFM images of Figures 6G and 6H. Following EDL suppression during the aggregation, 1D, 2D and 3D structures accumulate and combine to form a sphere-like aggregated GO. With the proposed adsorption-structural transformation-aggregation processes, the 2D GO graphene oxide nano-sheets were converted into spherical colloids in the presence of heavy metals, which is a potential reason why aggregation of the GO nano-sheets also follows the DLVO sphere - sphere mode. This study strongly suggests that the

adsorption, structural transformation and aggregation should be considered together to precisely elucidate the colloidal-behavior and environmental transport of nanomaterials such as graphene oxide, carbon nanotubes, and fullerene” [21].

“The Lancet paper that halted global trials of hydroxy-chloroquine for COVID-19 because of fears of increased deaths has been retracted after a Guardian investigation found inconsistencies in the data. The lead author, Prof Mandeep Mehra, from the Brigham and Women’s Hospital in Boston, Massachusetts decided to ask the Lancet for the retraction because he could no longer vouch for the data’s accuracy. The journal’s editor, Richard Horton, said he was appalled by developments. “This is a shocking example of research misconduct in the middle of a global health emergency,” he told the Guardian. A pharmacist holds the anti-parasite drug ivermectin for sale to the public in Bolivia. A Guardian investigation revealed errors in the data that was provided for the research by the US Company Surgisphere. These were later explained by the company as some patients being wrongly allocated to Australia instead of Asia. But more anomalies were then picked up. A further Guardian investigation found that there were serious questions to be asked about the company itself.”

Experimental project hypothesis

In order to verify clearly, the grade of affordability of some works reported must be send to 3 reviewers applied to the specific topics and re-evaluated in a blinded way. The work must to evaluated for material used, methods, control use, blind, number of samples Chemical instruments are used and others like statistical analysis. After this part, every reviewer produces a report. If the work produced is classified as good or excellent it must be taken into consideration even if not signed or produced by a nonphysician, biologist or chemist or other scientific recognized professional.

Discussion

In this work are reported various relevant classic reviewed articles published by the internationally recognized journal and editors. Other research study non reviewed and interesting documents are reported even if affected by various levels of weakness: lack of sign, published websites but not by classic editors, published in predatory journals, performed by not physicians or biologists or chemists but in a complex way talks about some features involving mRNA VACCINE. Some reported works show great accuracy and this denotes a great work behind.

Related to the public debate involving graphene derivates in the COVID-19 vaccine

It is true that “what we do not like to see we not search”: Because it is needed for the regulatory agency and producers to give public evidence of the absence of this substance in every lot released it is relevant to the global



analytical methods used. (See Figure 8-10: the effect played by the various solvent in some chemical -physical properties and reference $n = 13$). But in order to detect impurities with high sensibility from a biopharmaceutical, it is relevant not only the analytical methods used but also the pre-treatment of the sample (for example testing nanoparticles) [13]. It used different instrumentation and protocols of preparation according to new nanotechnological approaches [2].

Crucial also to have direct knowledge as public evidence of all manufacturing processes used, as well as the quality of the raw material used or of the final product (with a classic chemical analytical methodology Universally approved). The fact that there are present patents or industrial secrets must not limit the public evidence of a safety process. In some assessment reports of various mRNA VACCINE, it was reported that it must be clarified the quality profile of some recipients (written by regulatory agency). For all this reason there is the need to verify for every lot of mRNA VACCINE the complete absence of graphene derived using also destructive methods and with the technique necessary to give a full response like a classic and official chemical analytical test. (right sample collecting, right pretreatment of the sample, right methods, right instruments and right professionals, right control of interference factors, right sensibility and accuracy, qualitative and quantitative analysis, using of the standard control).

Conclusion

The global instrument to prevent or treat sars cov-2 disease was and are various: masks, social distancing measures, alcoholic hand gel washing, DPI, gloves, temperature measure, lockdown and other variables. Many drugs were tested and introduced like Remdesivir and Paxlovid. Molnupiravir. Monoclonal antibodies were introduced but with various levels of efficacy vs the new variants. The same vaccine strategy was added (mRNA, viral vector, inactivated, Proteic). But for all of this strategies the profile of efficacy/safety must to be right evaluated especially for the Emergency approved vaccine.

Observing some recent relevant references published and collected:

- 1) Or on vials of vaccine (P. CAMERA)
- 2) Or in the blood of vaccinates GIOVANNINI, et al.
- 3) Or related published review works Luisetto Tarro, et al.

It is of great interest to match this with some other reported independent researcher experience even if not classically reviewed or published as a White Paper. To do this operation it is crucial before to test this reported experience by an independent researcher with a high-level Professional reviewer expert able to test the goodness of the work submitted. For example, YOUNG RO pre-treated the nanolipids with solvent before testing the sample avoiding

some interference like a classic chemical-analytical method. (Even if he is not a chemist his work methods were excellent). In this article are reported also the influence of solvents in the RAMAN measure [13]. But what RAMAN IS BETTER TO USE? A direct nondestructive method or a destructive one when are involved nanolipids particles and their payload? In European pharmacopeia's last edition it is allowed to use direct nondestructive methods. Related to all this evidence reported, even if not so strong, what kind of messages this carries to us? Observing what happens every year for registered classic chemical drugs which also recall by a regulatory agency due to impurity are we sure we do not have to investigate also this profile for the new biopharmaceutical product like the mRNA vaccine or using innovative technologies? SAFE drugs need great quality control during the manufacturing process, for the raw materials and in the final product using the real best chemical classic methods. Especial attention must be dedicated to the fact that this bioproduct is inside nanolipids for the analytics interferences on the signal to be detected by instruments during quality control. According to the Personal opinion of P. CAMPRA a university full Professor Ph. d chemical science received (24-08-2022).

"In my opinion GO and other non-declared substances must be located by microscopical techniques coupled with spectroscopy (Raman, XPS, e diffraction). Otherwise the analyses will yield negative identification, as their amount is low and they show as dispersed particles" Sally Vanden-Hehir, et al written: about RAMAN spectroscopy used for GMP CQ:

"A major advantage of Raman (RS) is that it allows direct imaging of the nanocarriers and not the payload encapsulated within them" For this reason, it is crucial for production (PAT process analytical technology introduced by FDA) on the raw materials and final product quality control to use the really best analytical methods that include an efficient pre-treatment of the sample in order to avoid interference and with the right sensibility. (Using nondestructive but also destructive methods). Due to the fact that it was difficult for various researchers to see accepted and published by scientific editors also the White Paper can be a great option to generate hypotheses to be confirmed. This work was reported also as an example in which a prestigious international value journal retracted an article after publishing it. This makes possible a final crucial question: must we consider a BIBLE an article only because published in a reviewed journal?

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