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Organochlorinated Pesticides and Health: Lessons for Parkinson's Disease and Pesticides in General, and how to Heal it

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ABSTRACT

This article first provides the material explanation for the Chlordecone scandal, an organochlorinated pesticide that has been used largely until the 1990s. The diseases are explained from a chemo-physical principle that is related to the presence of alpha emitters from volcanic ashes associating with the negative ions chloride from the pesticides and bioaccumulating. It also allows to draw some more general conclusions on organochlorinated pesticides and health in general, and leads to general explanations on pesticides and Parkinson's disease in particular, with the role of another channel, cation-fluoride, underlined. Lastly it is shown that magnetic acupuncture is able to heal it successfully.

INTRODUCTION: CHLORDECONE IN THE ANTILLES

There are alpha emitters in volcanic tephras and plumes and this is the real explanation behind the scandal of the chlordecone. The chlordecone $C_{10}Cl_{10}O$ is a pesticide that has been blamed for a series of cancers among workers and other people exposed to it, that persists also in the environment for a long time after its use. Prostate cancer, prematurity in babies, issues with neurological development in babies, are among its noted consequences, it is also a known endocrine disruptor [1]. The data on diseases in the Martinique and Guadeloupe is scarce because there is no cancer report, liver cancer has been reported to be related to it as well. L. Boutrin also said that "the number of victims of Alzheimer's and Parkinson is explosing" [2].

These effects can arise through the pattern described in [3], with a general pattern related to alpha emitters in the soil from volcanic ashes (not to be confused with the radon potential – volcanic fumes contain some alpha emitters in a natural proportion [4][5]), present and past, having deposited a load of alpha emitters in the soil. These alpha emitters can interact with the chloride of the chlordecone molecule absorbed by the workers and generate the subsequent health effects. Neurodevelopmental disorders in babies can happen through the direct pattern described in [3] of the cation-chlorine channel filled up by chlorine anions, attracting alpha emitters, likewise for endocrine disruption. Without the cation-chloride channel, alpha emitters can nevertheless combine with the chlordecone, for instance after it has been damaged by alpha decay and a bond between Cl and C broken by the decay. Chlorine becoming chloride (anion – because its last superficial electronic layer has 7 electrons, it tends to associate with another electron to reach a stable layer) can hence associate freely with alpha emitters loaded with a positive charge from their alpha decay, wherever this has happened in the body. This can explain the damages associated to chlordecone.

Luce et al [6] find significant excess of deaths in stomach cancer and pancreatic cancer in women, as well as non-significant (but still relevant) increases in mortality in lung cancer in women, leukemia in men and non-Hodgkin's lymphoma in both genders. This is interesting because it confirms the thesis. The chloride anions are bio-accumulated by the plants where they meet, in the soil (as root vegetables are typical of the food of the Antilles) the alpha emitters from the deposited volcanic ashes, and associate with them following the pattern that has been underlined above. The plants get into the digestive tract and from there they deposit their alpha emitters, whose dangerosity for cancer has been demonstrated already [7] [8] [9] and is linked among other things to the bystander effect of alpha decay on cells that are damaged but not destroyed by the alpha particles, and hence become tumorogenic [10]. Transit of the alpha emitters in the rest of the body from the digestive tract absorption is hence possible and leads to other cancers in less significant rates, for instance leukemia and non-Hodgkin's lymphoma, and through the evacuation of the alpha emitters by the urinary tract and contamination of the seminal vessels, prostate cancer as well. Lung cancer is consistent with direct contamination with the volcanic ashes and may or may not be related to chlordecone.

OTHER ORGANOCHLORINATED PESTICIDES

This leads to other validations on other organochlorinated pesticides. Lindane for instance as well as DDT, aldrin, dieldrin, endrin, heptachlor, chlordane and endosulfane, dicofol and pentachlorophenol. For DDT like compounds there is an effect on the peripheral nervous system explained by the pattern shown in [3]. For chlorinated cyclodienes, as well, central nervous system effects are explained by the same pattern. Mirex was found to have effects including endocrine disruption, which is largely associated with alpha emitters [11], it is also associated with liver cancer. Vinyl chloride is a mutagen and IARC group 1 carcinogen because of the same pattern, with the various sources of exposure to alpha emitters in nature (radon) and from artificial sources such as phosphated fertilizers and coal ashes as well as TENORMs in oil and gas. Studies on organochlorinated pesticides and other pesticides have never taken into account the co-contamination with alpha emitters to explain their effects. DDT is an endocrine disruptor because of the same pattern, with possibly direct accumulation in the brain following the path described in [3] where interaction with the glands is then possible. Spontaneous abortions are another consequence, with the well-known teratogenic effects of alpha emitters in the womb explaining at high doses the spontaneous abortions observed [12] [13]. Toxaphene was also found to cause central nervous system seizures, liver and kidney cancer, the mechanism is obviously the same. In general, the effects observed share similar traits and are explained by the association of the pesticide with alpha emitters, that increase their biological half-life and facilitate deposition in the bodily organs.

Prevention is possible and neutron therapy a promising solution, since deposited alpha emitters are in general shuriken atoms (fertile) [14] and making them fissile (not shuriken but round) allows easier elimination by the organism. Fast neutrons are hence a potential solution to the issue allowing decontamination of the organism. Subcritical accelerator-driven systems are an excellent source of fast neutrons that remains portable and with limited emission of X-Rays and gamma rays, that can be gradually adjusted to the demands of the body. It is the most interesting answer to the problem, together with use of cannabidiol to sponge the damage of the organism (THCa for brain damage) caused by fast neutrons. Neutrons have already been tried for neck and head cancer [15] and represent a possible pathway for these diseases because of the origin. Most cancers spill from contamination with alpha emitters [7] and this is

why this represents a promising therapy. Nevertheless, an alternative answer is presented in the last part, for children, sick and old persons cannot withstand too much radiative energy from any even subcritical nuclear power source. Heavy microparticles will need to be removed with needles only in these cases. Some children (in cases not related to Parkinson's) have been found for instance to not withstand neutrons between 80 to 160 KeVs. It may be an issue of life and death for e.g. sick people with Parkinson's to undergo magnetic acupuncture.

PROSTATE CANCER AND PARKINSON'S DISEASE

As L. Boutrin said, Alzheimer's and Parkinson's are "exploding" in the Antilles from chlordecone. This is confirmed by the strong link between Parkinson's disease and prostate cancer, confirmed in a study [16] and validated by the fact that a drug used for the prostate also reduces Parkinson's risk [17]. Ejaculation has been shown to reduce prostate cancer risk and also reduces Parkinson's risk [18]. This last study that suggests Parkinson's is related to the lack of prostatic orgasms in men, is confirmed by the fact that a drug against Parkinson's, rasagiline, was shown to produce spontaneous orgasms. This was also confirmed by an Italian study that showed that male Parkinson subjects with active sexual life have less symptoms of the disease [19].

Prostate cancer and Parkinson's disease share the same founder that is alpha emitters. They can be excreted thanks to ejaculation and this is a safe way to reduce contamination. Sociological reasons for these diseases are related to cultures condemning orgasms. Alpha emitters cause physical damage that is millions of times above chemical products, in relation to the MeVs of alpha decay, while a chemical reaction produces usually 10 eVs. This simple fact explains why the co-contamination with alpha emitters explains several results on chemicals and health. For instance, in a study on Parkinson's in occupational pesticide use [20], the study was undertaken in Central California, where there is an intermediary radon potential [21] [22]. Alpha emitters such as radon mix with the water used to dilute the pesticide before use in cultures and this affects tremendously the results. Even in laboratory studies [23], no one checks for radon contamination in laboratories before undertaking the studies, leading to inevitable deviations on outcomes that can affect dramatically the results. The 5,59 MeVs of decay energy of radon can cause a remarkable range of diseases in internal contamination, from neurodegeneration [3] to endocrine disruption [11] and cancers [7] [8] as well as several other diseases. The effects of co-contamination with radon from the atmosphere of the laboratory, and from alpha emitters in waters, is never asserted in laboratory studies.

A UNIQUE CHEMO-PHYSICAL PATTERN

Pesticides can muster contamination with alpha emitters and drive it more synergistically into bodily organs, especially the brain, through cation channels. Above was discussed the pattern for chlordecone. 10 pesticides were underlined in a study published in Nature Communications [24]. Triflularin was found to be the most dangerous. Fluoride channels [25] allow to explain its penetration. The fluoride ions from trifluralin associate with alpha emitters in the channel, leading to the contamination of the cytoplasm. This pattern explains why trifluralin has been found to be extremely dangerous. In [24] it is said that "trifluralin is a driver of toxicity to dopaminergic neurons and leads to mitochondrial dysfunction". This toxicity driven by trifluralin is fundamentally related to alpha emitters in internal contamination carrying it. Alpha emitters have two ways to cause damage, directly through alpha decay and indirectly with spin for fertile alpha emitters through the shuriken effect [14]. Driven into the cytoplasm

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of cells by association with e.g. fluoride or chloride, they can damage the DNA and RNA of the cell or breach it entirely. Terbufos was also found to be highly associated with Parkinson [26]. Terbufos includes two atoms of sulfur and sulfide anions can interact, as hydrogen sulfide, with Cl- channels [27]. So through the same mechanism sulfide anions of terbufos can penetrate the cytoplasm and alpha emitters can follow through, for instance after alpha decay break of the terbufos molecule. The same study on terbufos and trifluralin also points 2,4,5-T, which contains three chlorine atoms – see above on this.

PESTICIDES IN THE 1990S IN VIETNAM AND PARKINSON'S (A SUMMARY MADE WITH CHATGPT)

The rising rates of early-onset Parkinson's disease (PD) in Vietnam [28] may result from a synergistic neurotoxic effect between chronic exposure to alpha-emitting internal contaminants (notably depleted uranium, DU) and widespread pesticide use (notably acetochlor and pretilachlor). Alpha emitters such as DU, when internalized, generate localized, high-linear energy transfer radiation causing intense oxidative stress in cellular microenvironments. Evidence indicates that DU nanoparticles cross the blood-brain barrier, accumulate in dopaminergic brain regions, and disrupt mitochondrial function—all mechanisms implicated in PD. Unacknowledged use of DU in Vietnam (1972) aligns with known uranium shearing and weapons production (Y-12, CRM 112A data from Energy.gov[*]). These herbicides are mitochondrial disruptors, known to impair oxidative phosphorylation and increase ROS. They are structurally and mechanistically similar to banned organochlorines. They are widespread in Vietnamese agriculture, particularly since the 1990s, coinciding with PD incidence trends. Alpha radiation and pesticides create a synergistic oxidative load, overwhelming cellular antioxidant defenses. This interaction may explain early-onset cases without clear genetic markers (10% of PD cases under 40 in Vietnam). This is supported by a growing literature on co-toxicity (metals and pesticides) in PD pathophysiology (see for instance a review [30]).

PD clusters overlap with areas of historic military action (potential DU deployment[†]), high pesticide use zones. Temporal emergence of early-onset PD aligns with post-war agricultural intensification and latency period expected for chronic neurodegeneration. This involves a need for biomonitoring of uranium isotopes, organochlorine residues and neurodegeneration biomarkers in young adults. Long-term health surveillance in former combat zones and agricultural regions should be undertaken. Services of the Crown of the United Kingdom of Great Britain and Northern Ireland noticed as well a strong increase of PD cases since the 1990s in North Vietnam.

Pesticide approval/monitoring policies, especially for neurotoxicants with mitochondrial impact, should be re-evaluated.

Transparency on historic military contamination is needed to inform the public health response. The intersection of historical radiological exposure and modern agrochemical

[*] https://www.energy.gov/nnsa/articles/crm-112a-production-and-certification-history

[†] While the deployment of DU makes no doubt, areas of use are still dimly statistically quantificated. The dual-use value of depleted uranium for civilian and military purposes leads to a shadowy quantification and to the recourse to the use of statistical manipulations to conceal it.

practices presents a unique and under-recognized risk for neurodegenerative disease in Vietnam. Recognizing these environmental factors could reshape both diagnostic thinking and prevention strategies for early-onset Parkinson's.

In summation (besides the above summary made with ChatGPT), there are organic pathways for pesticide entry into the organism that allow alpha emitters to become the toxicity responsible for Parkinson's disease and other sicknesses. These patterns are chemo-physical, they involve both alpha emitters and specific pesticides whose organic nature associated with specific atoms such as Cl, F or S, makes penetration in the organism easier and increases the natural risk related to alpha emitters. For neurological damage, cannabidiol has been shown to muster damage and reduce inflammation [29] and could be a good combination with neutron therapy used to eliminate by neutron capture the shuriken (fertile) atoms which represent the vast majority of natural contamination. Because neutron therapy would have to reach the inner layers of the brain, THCa would also represent a significant support in making less painful neutron therapy [30]. Nevertheless, magnetic acupuncture has been proven to work very successfully and is a reliable way to heal among other sicknesses Parkinson's disease, which is a special case of a neurological disease related to alpha decay-related vibrations of nerves within the guts' neurological system. This has been shown in an earlier work of the author [18]. As explained within, "*The body becomes tense in fact from the general accumulation of alpha-emitting nanoparticulates that also demyelinates and reduces the amount of nerves, the body relies on less and less nerves (this was observed empirically on a subject suffering from a long period of Parkinson, the body collapses progressively around the belly, muscles have disappeared). The few nerves that still matter become vulnerable and the alpha hits propagate in a general vibration*". Albeit orgasmic, rasagiline works solely on the middle term. While prostatic stimulation is shown to be key in [18], a subject has been found unable to receive clitoridian stimulation and hence magnetic acupuncture has become needed.

FIXING PARKINSON'S WITH MAGNETIC ACUPUNCTURE

The field is relatively new as indeed there are no peer reviewed studies on this. It is indeed very difficult to find a way to cure Parkinson's but with magnetic acupuncture a way has been devised and tested already once with robotic magnetic acupuncture on a random subject. This subject reacted very well as soon as the magnetic acupuncture was started. It was indeed a first and the individual started by crying of pain under the pressure of the positive push of the needles, as magnetic pushers (the reverse magnet effect) are used instead of electronegative needles here. It is indeed very useful to start with electronegative needles in some cases of Parkinson's but not all as indeed there are many cases where the alpha emitters are simply encastrated within the kidneys and something has to be done with positive pushers. Indeed, the reverse magnet effect kicks out the alpha emitters while attracting directly the positive magnet as it replutogenizes somehow the alpha emitters causing the Parkinson's disease within the gut and surrounding tissue. Indeed, the positive pushers need to be accompanied with a small neutron source. This novel form of intervention requires solely a Ra226-Be neutron source or alternatively a bigger Ra226-13C neutron source that will inflict more pain but that will be more powerful. Indeed, this works very well. It has been proven by a number of informal case studies by one of the authors that indeed this enrichment / plutogenization works very well by making the atoms round and able to fall in the gut and / or to fission immediately. There are also expected spillovers of that method for cancer therapy. Lung cancer for instance can be expected to be healable through that pattern.

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