

Homeopathy, Acupuncture and Electromagnetism

unlikely (sick) bedfellows

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Clinical experiences

In the course of this work with electromagnetically hypersensitive patients it became clear that water in a sealed glass ampoule could become clinically effective after succussion in an alternating magnetic field at some patient specific coherent frequency. In this, no chemical information transfer was possible. This takes any theory of homeopathy firmly away from chemistry and places it within the physical properties of water. Surprisingly, this 'water memory' relies on the geomagnetic field for its retention.

Measurements of water frequencies imprinted at the acupuncture points showed that unique endogenous (internally generated) frequencies were present on each meridian. Entrainment of these frequencies was found to result from exposure to exogenous (externally generated) frequencies, whether technical, the frequency signatures of chemicals or,

those characterising homeopathic potencies.

In one case, involving an electrically hypersensitive patient, *Calcarea carbonica* 10M had been prescribed by a homeopath. The patient needed stimulation by the frequencies: 1.5Hz, 5.6Hz and 1.6kHz. Subsequent measurement showed that only the 10M potency of *Calc-c* contained exactly these frequencies.

The frequencies characterising a homeopathic potency can entrain nearby endogenous frequencies of acupuncture meridians and synchronise them. The therapeutic effect of homeopathy is seen as the re-programming of the frequency activity of the whole body or just specific target organs by forcing re-adaptation to a 'healthy' frequency. A frequency pattern imprinted into a cell culture *in vitro* gave daughter cells which had acquired it. This demonstrates the permanent re-programming of cells and therefore that a true therapy is possible by homeopathy.

Endogenous frequencies

The acupuncture meridians are envisaged as communication paths based on endogenous coherent frequencies (Smith, 1990). These are postulated to originate from a coherence established as the organism develops from its embryo while the ectoderm, endoderm and mesoderm cell layers are in close proximity. Meridians of coherence persisting and growing as the organism develops eventually link the acupuncture points to the target organs in the mature organism. This link can be followed in the human from acupuncture point to target organ tissue. Enough water remains in a histological specimen after staining and fixing for a frequency measurement to be made through the glass of the slide to show that the imprint is still retained.

Frequency is the common factor linking acupuncture with homeopathy. It was found that certain specific and highly coherent frequencies would stimulate the chakras, the Ting acupuncture points on the hands and feet as used in electroacupuncture and other meridians which do not terminate at the Ting points. The endogenous frequencies are closely similar to those exogenous frequencies which stimulate the meridians and which can entrain and synchronise them. Although the bandwidth at a meridian is only about $\pm 2\%$ of its mean frequency it can be 'entrained' or 'pulled' by an external oscillation often by up to $\pm 30\%$ (in extreme cases by orders of magnitude) before the entrained frequency jumps back to its endogenous value.

The writer has been involved since 1974 in research on the interactions of electromagnetic fields with bio-materials and living systems. He cooperated in this (Smith, 1988) with the late Professor Herbert Fröhlich. An early conclusion of this work was that there were anomalous magnetic field effects in water and living biological systems and that these were only explicable in terms of coherence phenomena. The writer first became involved in the diagnosis and therapy of patients hypersensitive to their electromagnetic environment in 1982. At the request of Dr Jean Monro he worked with her electrically hypersensitive patients and also with those of Dr W.J. Rea in Dallas, Texas. This has given an insight into the extremes of sensitivity of which living systems are capable as evidenced when their regulatory control mechanisms fail.

The frequency signatures of chemicals or homeopathic potencies in contact with the body are equally effective in producing such frequency entrainment. Holding a glass bottle containing a chemical for just one minute is sufficient to entrain a nearby acupuncture point to that signature; it takes about 10 minutes for it to relax back to its endogenous frequency. Failure to relax following chronic exposure would be equivalent to adaptation and toxicity. Table 1 shows an example of entrainment of acupuncture meridians by a homeopathic potency.

The homeopathic remedy in the D6 (6X) potency was selected using Boericke's Repertory to find a remedy relating to symptoms corresponding to target organs for the Ting acupuncture points. The first column of Table 1 lists the frequencies found for the potency. Column 2 lists those acupuncture points having an endogenous frequency (Column 3) within the entrainment range. There seemed to be a single frequency in each potency which did not correspond to any Ting Point and there was no entrainment by this frequency. All the acupuncture points selected were checked for entrainment while holding the potency.

The first measurement (Column 3) was made to check the state of the meridian and to confirm that no effect remained from previous measurements. The second measurement (Column 4) was then made with a tablet of the potency inside a glass vial which was clasped in the palm of the left hand. This was repeated down the list of acupuncture points. The potency was only held for long enough to be able to make a frequency imprint into water at the acupuncture point. There was negligible bio-information retention and the following measurement could be made as soon as the experimenter was ready. Comparing Columns 1 and 4, it is seen that the acupuncture point frequency moved quickly from its initial value to that of the potency being held.

Erasing frequency imprints in water

Before considering how to potentise or imprint frequencies into water, it is necessary to find out how to get 'clean' water free from bio-information garbage.

'Clean' water is chemically pure water which has been 'erased' of its frequency imprints by briefly shielding it from the geomagnetic field in a suitable steel en-

Table 1 Entrainment of acupuncture meridians by Vanadium D6

Vanadium D6 frequencies Hz	Acupuncture point	Endogenous frequencies Hz	Frequencies while holding potency Hz
1	2	3	4
2.23×10^{-2}	SI1	2.516×10^{-2}	2.282×10^{-2}
4.80×10^0	Liv1	4.780×10^0	4.802×10^0
4.80×10^0	BL67	5.520×10^0	4.802×10^0
$5.40 \times 10^{+5}$			
$1.24 \times 10^{+6}$	SI1	$1.230 \times 10^{+6}$	$1.240 \times 10^{+6}$
$3.30 \times 10^{+6}$	Ly1	$2.940 \times 10^{+6}$	$3.300 \times 10^{+6}$
$3.30 \times 10^{+6}$	LI1	$2.700 \times 10^{+6}$	$3.300 \times 10^{+6}$
$3.30 \times 10^{+6}$	CI9	$2.440 \times 10^{+6}$	$3.300 \times 10^{+6}$
$3.30 \times 10^{+6}$	GB44	$2.460 \times 10^{+6}$	$3.300 \times 10^{+6}$
$3.30 \times 10^{+6}$	Or1	$3.850 \times 10^{+6}$	$3.300 \times 10^{+6}$
$3.30 \times 10^{+6}$	Pn1	$2.720 \times 10^{+6}$	$3.300 \times 10^{+6}$

sure giving about 380 nT. This erasure seems permanent and imprints thus erased cannot be recovered by any method found so far. Chemical frequency signatures appear to be unaffected.

A questioner once remarked:

The German homeopathic pharmacies are following EU regulations and heating all their preparations to 90°C. This has the effect of making a potency come out lower than that given on the label. For example, D10 comes out as D6. The original potency can be restored by succussion but no one tells the patients to do this. If as you say, the water imprint is erased at 70°C is there anything left in these heated preparations?

It was easy to confirm that heating imprinted water to between 70°C and 90°C does alter the frequency imprint. A 1 kHz water imprint was heated. At 70°C additional resonances appeared at 100 Hz and 10 kHz. Succussion restored the original 1 kHz and the 100 Hz and 10 kHz disappeared.

From 90°C to boiling point, no imprint at 1 kHz remained. However, the original 1 kHz imprint could be recovered by succussion in the presence of certain frequencies: 384 MHz or 7.8 Hz, 1.42 GHz, 2.65 GHz. The 1.42 GHz corresponds to the 21 cm. wavelength resonance of molecular hydrogen. Water will not take a frequency imprint in a 21 cm open-ended tube nor in a 10 cm cuvette. Water imprinted at 1 kHz, heated in an autoclave to 121°C for 3 minutes and allowed to cool, showed no imprint when tested with a toroid. The imprint could still be detected with a 'Caduceus' (bi-filar) coil. Succussion in the presence of any of the above frequencies fully restored the 1 kHz.

These frequencies have further unexpected properties. It is possible to 'hide' an imprint by succussing it on one side of an oscillator output coil: which side depends on the relative direction of the geomagnetic field.

A dilute solution of a chemical (e.g. NaCl at 6 mM) can have its chemical frequency signature 'hidden'. That 'hiding' a chemical signature only works for a dilute solution suggests that the molecules of the chemical may have become enclosed within coherence domains which protect them from external measurement fields.

The high frequency branch (384 MHz) of the heart meridian and chakra has a corresponding low frequency branch at 7.8 Hz and this also 'restores' a hidden imprint as does holding it over the heart chakra. These unusual effects on water are no more remarkable than the heart meridian and chakra having an endogenous frequency on a Schumann (geophysical) resonance.

Imprinting frequencies into water

These techniques can be used to imprint from a source of frequency such as a solenoid, or toroid fed from an oscillator or to copy an existing water imprint from a chemical or a potency into 'clean' water (Smith, 1994).

Clinical aspects

Clinically significant information can be imprinted into a vial of water by succussion in contact with a biological system, a chemical or a homeopathic potency. It is the succussion or sharp banging process of homeopathic remedy preparation that creates a potency. Body frequency information from a patient can be collected by

having the patient hold and succuss a vial of water. This will acquire an imprint of the body frequencies. It can be wrapped in aluminium foil and mailed for away measurement. The information imprinted in water seems to be retained indefinitely under normal conditions. A homeopathic potency prepared by Hahnemann remained clinically effective for more than 150 years.

Contact

Frequency transfer takes place through the glass of a vial containing 'clean' water if immersed in a medium containing the required frequencies. The high frequencies potentise quickly, the low frequencies may take hours or even days to imprint (Smith, 1995).

Proximity and succussion

Placing a vial of 'clean' water near to a source of the frequencies (e.g. chemical, potency or oscillator), and either mechanically succussing it or briefly applying the field from a strong permanent magnet, will imprint the frequencies into the 'clean' water. For this purpose, mechanical succussion is effected by a single sharp bang on a resilient surface such as wood so as not to break the glass. Each subsequent dilution and succussion will in general introduce more frequencies.

Toroid

Placing a ferrite toroid between the source of frequencies and the 'clean' water will interchange the stimulatory and depressive phases of the biological effects. The water can be succussed to effect an imprint but, strangely enough, imprinting also occurs if a toroid is succussed. Something is going on in time and space which is not understood. Using a second toroid gives a second reversal and hence makes an exact copy of the source frequencies. A small remanence magnetic field is required inside the toroid as a bias, otherwise twice the frequency is copied.

Electric pulses

A sequence of 7-unidirectional pulses of electric potential applied to a metal beaker containing a frequency source which may be an ampoule of frequency imprinted water or a toroidal coil connected to an electrical oscillator set to the required frequency. This will 'copy' into a nearby ampoule of 'clean' water. Because of the

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need for a metal beaker, this seems to be a change of electric potential effect rather than an electric field effect. A very high electric field produced at a sharp metal point would not imprint water. One implication is that nerve impulses in living systems may be able to perform mathematical operations on endogenous frequencies.

It has been reported that the microwave cooker frequency 2.45 GHz alters constituents in milk from L- to D- isomers (Lubec, Wolf and Bartosch, 1989). Enzymes are highly specific for a particular reaction. The active site of an enzyme is a highly organised, stereo-specific, three-dimensional, region of a macromolecule and only one isomeric form may react. This frequency switch should provide an *in vitro* model for studying digital biological switches in general and how nerve pulses might effect switching. Since most such effects are bi-phasic, there is a reverse D- to L- switch too.

Magnetic fields

This method of imprinting water requires an alternating current in a coil (e.g. solenoid) at the required frequency giving sufficient magnetic field. Alternatively, a toroidal coil may be used to generate an alternating magnetic vector potential. The toroid contains the magnetic field within itself but, radiates the magnetic vector potential which may appear as a change in chemical potential in the wave function. In this case, an additional magnetic field or succussion is required to effect the imprinting. Such a magnetic field may be from a permanent magnet or from a coil at any frequency which is not greater than that being imprinted from the alternating magnetic vector potential.

Chemical potentising

Chemical elements have a single characteristic frequency. That for lead (Pb) is at 3.07 GHz, but because of the multiple frequency effect of coherence, it is also

effective in the ELF. Any frequency imprint in water between 4 Hz and 300 Hz is not detected if a rod of lead is in the water. If succussed, the imprint is erased. Instead of a succussion, a drop of 3% hydrogen peroxide solution can be added to the same effect. This also seems to block against re-imprinting. It is usually recommended that patients should not use peppermint when taking homeopathic potencies. The frequencies in a 'Peppermint Schnapps' were 0.4016 Hz (which would stimulate the stomach meridian) and the important 384 MHz which would hide the frequencies of any potency being taken.

Reading a water frequency imprint

This presents a very great measurement problem because coherent endogenous frequencies in living systems may be anywhere in the spectrum from below milliHertz to beyond gigaHertz. These frequencies do not seem to be in 'classical' electric or magnetic fields but rather in magnetic vector potentials or quantum fields which for instrumental measurement must be converted. The following lists the presently available techniques.

Clinical

Homeopathic proving symptoms and results of clinical tests on electrically hypersensitive patients make use of the 'biological detector'.

Dowsing

Dowsing techniques have been developed by the writer for the detection of resonances in water, allergen dilutions and homeopathic potencies and reactions in electrically hypersensitive patients when excited by a frequency of an alternating magnetic field from a coil, or vector potential from a toroid. Imprinted frequencies are correctly detected. Characteristic coherent frequency signatures can be measured in most chemicals containing traces of water. These disappear after thorough drying but

return when traces of water are added. No chemical signatures were found in the case of 100% halogen-saturated molecules which have no H-bonds available for bonding to the water. The writer's personal sensitivity threshold for detecting the chemical frequency signature of sodium chloride as its solution is successively diluted is at a concentration of about 0.3 ppm by weight. Mind-body interactions make 'double-blinding' difficult.

Electrodes

Electrodes immersed in frequency imprinted water and connected to the input of a sensitive, low-noise and narrow band amplifier, or a signal analyser, can be made to detect the imprinted frequencies in the kilohertz region when the water is excited by that frequency. This technique is very difficult to implement consistently although imprinted frequencies have been correctly detected. The possible physical mechanism is one whereby charges entering coherent water domains must do so as pairs; this depletes the charge density at the water/electrode interface resulting in an increased electrical resistance which in turn is converted to a differential input voltage by the small off-set current of the head amplifier (Smith, 1994).

Laser

Gariaev and Tertishny (Prangishvili et al., 2000) have developed a special He-Ne laser (632.8 nm) with two orthogonal beams. Each beam interacts with the other giving entangled states to the photons which give rise to radio-frequencies that can be picked up on an ordinary AM radio but only when the laser is on and the specimen can give optical rotation. The measurements are made at radio-frequency and A/D converted so a Fourier spectrum can be generated. In experiments using this laser system involving homeopathic potencies, the control showed no information; an active potency of *Platina* D12 had peaks at 2.2 kHz and 4.5 kHz with some fine structure. Subsequently, the writer prepared a D12 potency of platinum and independently measured the following three frequencies: 2.301 kHz, 4.455 kHz and 2.57 MHz. The latter was obviously the radio-frequency, the others were modulation. This laser system seems to be able to measure imprinted frequencies.

Microcalorimetry

Elia has carried out an extensive thermodynamic microcalorimetric study on aqueous solutions obtained through successive dilutions and succussions (Elia & Niccoli, 1999). The exothermic heat of mixing with acids or bases differs between the dilute solutions, homeopathic potencies and frequency imprinted water when compared with the control untreated solvent water.

Theory of coherence in water

Coherence is the physical parameter essential for the 'memory' of coherent frequencies in water. Del Giudice & Preparata (1994) considered the quantum-field interactions of endogenous far-ultraviolet radiation (12.06 eV, 103 nm) in water. They predicted that a permanent coherence can become established and give rise to a long-range-order within domains 75 nm in size. This coherence occurs in the ground (unexcited) energy state of water. It is a fundamental property of liquid water and unlike the laser, no energy pumping is required to establish this coherence. This is the only theory so far to give the correct values for the latent heat of evaporation and the dielectric constant of water and to account for its anomalous properties.

Thus, water is considered to be a mixture of coherent water domains interspersed with incoherent or vapour-like water. Coherent water is responsible for the 'memory' properties, incoherent water is responsible for the normal thermodynamic properties. Domains are considered to have spin, the geomagnetic field should align them, its removal should randomise under thermal agitation. External radiation will interact with an entire coherence domain giving the LF band velocity ~metres/sec which can be measured by a modified Fizeau's Method (first done in

1934 by Wüst and Wimmer). The HF band corresponds to the vacuum velocity of light since there is no interaction with single molecules. In a coherent system *coherence length* is the constant parameter, *velocity* is proportional to *frequency*. The measured ratio of the HF/LF bands was found to be constant over all the acupuncture meridians with a paired-values standard deviation of $\pm 0.15\%$.

Trace water in n-alkanes points to water memory mechanism

Following retirement, the writer had to close his university laboratory in 1991, but before this he measured the signature frequencies of all the chemicals in stock. ELF resonances were found in the n-alkanes but only when a trace of water (>14ppm) was present (Smith, 2000).

If there are interactions between the spectra of coherence domains in water and the characteristic molecular spectra of n-alkanes, these must be in the far-infra-red (FIR) rotational spectrum because this is the only region where n-hexane has a spectrum.

The next question was whether the same arguments could be applied to water alone. Were there any measurable frequencies corresponding to differences between the FIR water lines in the absence of n-hexane? There needed to be some arbitrary restriction because of the hundreds of rotational water lines which might otherwise have had to be considered. It was noted that the water lines at 28 μm (357 cm^{-1}), 47 μm (213 cm^{-1}), 78 μm (128 cm^{-1}) and 119 μm (84 cm^{-1}) can become coherent enough for use in a water vapour laser, these might also provide the necessary coherence for 'water memory'.

The difference between the water laser lines, $357\text{ cm}^{-1} - 213\text{ cm}^{-1} = 144\text{ cm}^{-1}$ for

Table 2 Effect of imprinting a frequency by succussion

Frequency imprinted	10 Hz	
Frequencies measured	32.15 Hz and 12.78 Hz	= $22.6 \pm 10\text{Hz}$
(with oscillators)	22.21 Hz and 3.196 Hz	= $13.3 \pm 10\text{ Hz}$
	1.215 GHz and 1.250 GHz	= $22.6 \pm 10\text{Hz}$
	2.17 GHz and 0.322 GHz	= $1.25 \pm 0.92\text{ GHz}$
(with resonators)	24 μm (416 cm^{-1}) and 32 μm (312 cm^{-1})	= $364 \pm 52\text{ cm}^{-1}$
	32 μm (312 cm^{-1}) and 60 μm (166 cm^{-1})	= $239 \pm 73\text{ cm}^{-1}$

which the HF/ELF ratio $6.57 \text{ cm}^{-1}/\text{Hz}_{\text{ELF}}$ gives 22.6 Hz; likewise, $213 \text{ cm}^{-1} - 128 \text{ cm}^{-1} = 85 \text{ cm}^{-1}$ gives 13.3 Hz and $357 \text{ cm}^{-1} - 128 \text{ cm}^{-1} = 229 \text{ cm}^{-1}$ gives 34.8 Hz. All these ELF frequencies were detected.

Effect of potentiation on a frequency imprint

Table 2 (page 13) shows what happened when 10 Hz was imprinted into water by succussion. This ELF imprint splits energy differences in the ELF, RF and FIR. The accuracy of measurements in the FIR was limited making it difficult to assign these wave numbers. If the imprint frequency was greater than the endogenous frequency, only the sum frequency was detected.

Water was imprinted by succussion at 1 Hz. It was then serially diluted tenfold (1+9). The 1 Hz remained. When it was then succussed the 1 Hz disappeared and was replaced by 10 Hz. What happened for many frequencies and dilutions tested was that in general, the original 1 Hz disappeared and was replaced after succussion by a frequency = 1 Hz ? the dilution factor.

This was the general pattern at other dilution ratios although there were exceptions. For example, the imprinted frequency remained at 1 Hz until a dilution ratio of 1.4 was reached. When the dilution was 1.5, the frequency jumped to 1.5 Hz. For dilutions from here to 1.9, the frequency remained at 1.5 Hz. At dilution 2.0, the frequency jumped to 2 Hz. Although the 4-fold dilution gave 4 Hz so did a 5-fold dilution. The 6-fold dilution gave 6 Hz but so did a 7-fold dilution. The 11-fold and 13-fold to 19-fold dilutions did not imprint any frequency at all. The 20- to 23-fold dilutions all gave 20 Hz; the 24-fold to 29-fold dilutions all gave 24 Hz; the 30-fold dilution gave 30 Hz. There were similar exceptions for dilutions in the 10s, 100s and 1000s.

Pattern of potentiations

Figure 1 shows the frequencies measured for a set of potencies prepared from a 'mother tincture' of dilution D4 by Dr P.C. Endler of the Ludwig Boltzmann Institute for Homeopathy in Graz, according to conventional homeopathic procedures (Smith & Endler, 1994). The frequencies in the 'mother tincture' were 0.04 Hz, 0.25 Hz and 0.95 Hz. At each potentiation, two more frequencies were added – one stimulatory, one depressive,

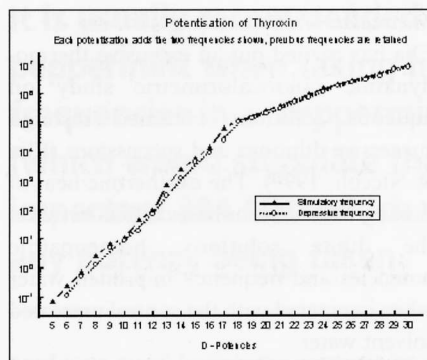


Figure 1. Frequency measurements on potentiations of Thyroxin from D5 to D30. The points plotted are the frequencies added by each potentiation.

all the lower frequencies were retained. There was a certain amount of beginners luck about the choice of thyroxin, and not all potentiations are as simple and regular.

The straight line for the plots on the log-log scales (potencies are logarithmic) indicates a fractal system. The slope changes at D18 rather than at D24 the Avogadro's Number theoretical dilution at which no chemical from the 'mother tincture' can remain. This suggests that at D18 concentration the water coherence effects exceed any remaining chemical effects.

Water was potentised by succussion with all the frequencies previously determined for thyroxin D15. It was then potentised further by serial dilution and succussion as far as D20. The frequencies measured for each potency from D15 to D20 were exactly the same as those measured on the original potencies prepared in the conventional manner.

Conclusions

The basis of the art of using homeopathic potencies lies in using their frequency patterns in the memory of coherent water, or water containing substance. This is implicitly known from 'provings' and the art is in matching these patterns to the needs of the patient. Chronic exposure to an environmental frequency would be the same as chronic persistence with a proving, the boundary between proving symptoms and the disease state would disappear through adaptation.

The whole of this depends on the consequences of coherence in water. The 'water memory' appears to be located in far-infrared (FIR) rotational spectra of water-laser lines. Because of coherence, there can be many interacting frequencies

in widely different parts of the spectrum, each with its proportionate velocity of propagation, which is how 'water memory' effects are able to appear throughout the spectrum. Frequencies characterising homeopathic potencies are able to entrain nearby endogenous frequencies on acupuncture meridians, which is how they are returned to 'healthy' values. The use of coherent frequencies by living systems and the entrainment of homeopathic potency frequency signatures at acupuncture meridians is the formal link between homeopathy and acupuncture. ●

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