

# **SCIENTIFIC FRAMEWORK OF HOMEOPATHY**

## **Evidence Based Homeopathy**

### **After 64<sup>rd</sup> LMHI congress - 2009**

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#### SUMMARY:

This booklet is aimed at considering all important aspects of the scientific framework of Homeopathic practice including ethical questions, evaluation of daily practice, looking at the level of scientific evidence of each of these aspects. The conclusions are that homeopathy has to stay in the framework of medical practice and it is even a necessity for public health. Of course more research is always necessary.

This booklet is a joint production of the Liga Medicorum Homeopathica Internationalis and of the European Committee for Homeopathy.



CONTENTS

Chapter I	: Introduction.....	page 3
Chapter II	: General framework and ethical aspect .....	page 4
Chapter III	: Framework of the practice .....	page 23
Chapter IV	: Meta-analyses – Systematic “Reviews”.....	page 33
Chapter V	: The results of ‘ECHO’.....	page 39
Chapter VI	: « Internal » evidence - Heuristic .....	page 48
Chapter VII	: The homeopathic medicine has a specific activity. ....	page 55
	Physics of homeopathic medicines .....	page 59
Chapter VIII	: Veterinary homeopathy .....	page 64
Chapter IX	: Questioning homeopathic medicines .....	page 67
Chapter X	: Homeopathy and epidemic diseases .....	page 70
General conclusions	: .....	page 75

## CHAPTER I

### **Introduction**

The aim of this booklet is the study of the current framework of the practice of homeopathy in the world. The scientific adequacy will be considered regarding the level of evidence currently available for each considered aspect.

What is a level of evidence?

Level of evidence :

- I = the existence of meta-analyses and/or systematic positive « reviews » of the literature.
- IIa = controlled multiplied experiments, randomised positive.
- IIb = some controlled experiments, randomised positive.
- IIIa = study with multiple cohorts positive.
- IIIb = study with some cohorts positive.
- IV = opinion of experts (clinical and daily cases)

*The comparable Oxford university scale is divided into 5 levels in state of 4.*

The use of homeopathic medicines is widely spread throughout the world population. In Europe, these medicines are submitted to a registration procedure (1) which guarantees an optimal pharmaceutical quality and safety for users.

A potential risk exists only when these medicines are used without foregoing medical diagnosis. To minimize this risk it is essential to keep homeopathy within the framework of medical practice.

In several countries, a law on patients' rights has come into force. It means that the patients have the right to choose or to refuse a proposed treatment. Medical doctors cannot inform the patient correctly if they do not know all possible medical approaches and as such an ethical dilemma is created.

It is essential for public health to formulate concrete answers to all these questions. This booklet is also aimed to help at the formulation of pragmatic solutions to these problems.

(1) European Directives 2001/83/EC (ex 92/74/EC), 2004/27/EC & 2001/82/EC (ex 92/74/EC), 2004/81/EC.

CHAPTER II

**General framework and ethical point of view (2).**

First part of chapter II

A. The place of the non-conventional medicine in our public health system.

> The **World** Health Organisation (**WHO**) concludes in a report of May 2005, concerning politics about traditional medicine in different countries (3), that traditional medicine (TM), all over the world, maintains its popularity. In addition, during the last 10 years the use of CAM (Complementary and Alternative Medicine) has increased in several countries. The safety of the use of these products, their quality control and their evaluation in term of efficacy, are priorities for the political authorities as well as for the population.

The WHO questioned their 191 members. 141 countries (74%) answered.

32% of these countries have developed a policy of health including TM/CAM.

56% stated that a policy concerning TM/CAM is in “construction”.

Only 5 countries developed this regularisation already before 1990.

28% have an adapted national program specific to TM/CAM

58% have put in place a national committee responsible for TM/CAM. In most cases this committee is part of the Health Department. 43% of these countries have established a committee of experts for TM/CAM.

A problem of harmonisation exists between the different countries. Major difficulties are the absence of a standardized educational programme for TM/CAM and a lack of experts on this matter. Countries are asking the support and advice of the WHO to develop a national policy concerning the regularisation of TM/CAM.

(2) Le Roux P, Van Wassenhoven M. Médecines non conventionnelles dans les institutions de soins? *Ethica Clinica* 2006 n°42.

(3) National policy on Traditional Medicine and Regulation of Herbal Medicines. Report of a WHO global survey. WHO 2005 Dr Xiaorui Zhang <http://www.who.int> ISBN 92 4 159323 7

## **Beijing Declaration**

**Adopted by the WHO Congress on Traditional Medicine, Beijing, China, 8 November 2008**

Participants at the World Health Organization Congress on Traditional Medicine, meeting in Beijing this eighth day of November in the year two thousand and eight:

- Recalling the International Conference on Primary Health Care at Alma Ata thirty years ago and noting that people have the right and duty to participate individually and collectively in the planning and implementation of their health care, which may include access to traditional medicine;
- Recalling World Health Assembly resolutions promoting traditional medicine, including WHA56.31 on Traditional Medicine of May 2003;
- Noting that the term "traditional medicine" covers a wide variety of therapies and practices which may vary greatly from country to country and from region to region, and that traditional medicine may also be referred to as alternative or complementary medicine;
- Recognizing traditional medicine as one of the resources of primary health care services to increase availability and affordability and to contribute to improve health outcomes including those mentioned in the Millennium Development Goals;
- Recognizing that Member States have different domestic legislation, approaches, regulatory responsibilities and delivery models;
- Noting that progress in the field of traditional medicine has been obtained in a number of Member States through implementation of the WHO Traditional Medicine Strategy 2002-2005;
- Expressing the need for action and cooperation by the international community, governments, and health professionals and workers, to ensure proper use of traditional medicine as an important component contributing to the health of all people, in accordance with national capacity, priorities and relevant legislation;

In accordance with national capacities, priorities, relevant legislation and circumstances hereby make the following Declaration:

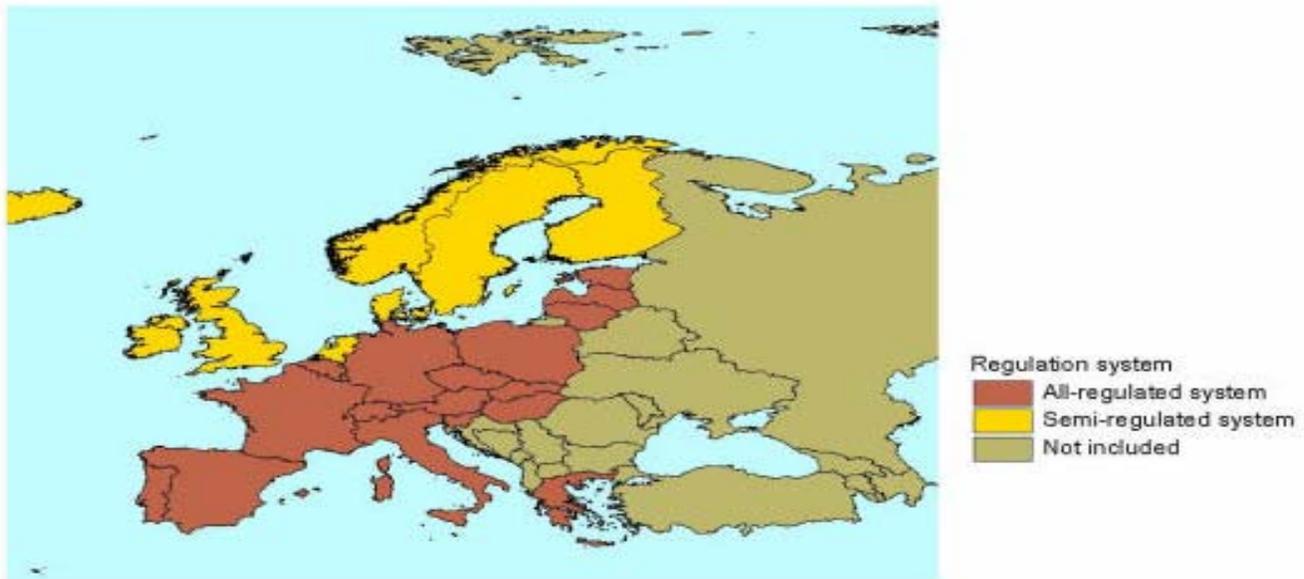
- I. The knowledge of traditional medicine, treatments and practices should be respected, preserved, promoted and communicated widely and appropriately based on the circumstances in each country.
- II. Governments have a responsibility for the health of their people and should formulate national policies, regulations and standards, as part of comprehensive national health systems to ensure appropriate, safe and effective use of traditional medicine.
- III. Recognizing the progress of many governments to date in integrating traditional medicine into their national health systems, we call on those who have not yet done so to take action.
- IV. Traditional medicine should be further developed based on research and innovation in line with the "Global strategy and plan of action on public health, innovation and intellectual property" adopted at the Sixty-first World Health Assembly in resolution WHA61.21 in 2008. Governments, international organizations and other stakeholders should collaborate in implementing the global strategy and plan of action.
- V. Governments should establish systems for the qualification, accreditation or licensing of traditional medicine practitioners. Traditional medicine practitioners should upgrade their knowledge and skills based on national requirements.
- VI. The communication between conventional and traditional medicine providers should be strengthened and appropriate training programmes be established for health professionals, medical students and relevant researchers.

> In **Europe** the report “Concerted Action for Complementary and Alternative Medicine (CAM) Assessment in the Cancer Field” (4) observed the same tendency concerning an increase in the use of CAM. This evolution goes on in different countries within different scientific frameworks. CAM would be understood as Non Conventional Medicine meaning that it is not yet part of a Convention in Medicine. This situation could evolve in the future.

Diagram 1: Regulation in European countries (CAM-CANCER report).

	« fully controlled systems » n=19	« partial controlled systems » n=10	
<b>Countries</b>	Austria, Belgium, Cyprus, Czech Republic, Estonia, France, Germany, Greece, Hungary, Latvia, Lithuania, Luxembourg, Italy, Poland, Portugal Spain, Slovenia, Slovakia, Switzerland,	Denmark, Finland, Iceland, Liechtenstein, Ireland, Malta, The Netherlands, Norway, Sweden, UK	
<b>Who is allowed to treat?</b>	Statutorily regulated individuals.	Statutorily regulated individuals.	Everybody
<b>Authorized Medical Activities:</b>	-“risky” medical procedures -treating serious diseases -safe medical procedures -preventive/prophylaxis	-“risky” medical procedures -treating serious diseases -safe medical procedures -preventive/prophylaxis	-safe medical procedures -preventive/prophylaxis

## Regulation systems in Europe



(4) How are European patients safeguarded when using complementary and alternative medicine? Juridictions, supervision and reimbursement status in the EEA area (Eu and EFTA) and Switzerland. CAM-CANCER project funded by the European Commission within the 5<sup>th</sup> Framework Programme “Quality of Life” 10-2005 <http://cam-cancer.org>

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EVIDENCE BASED HOMEOPATHY NOVEMBER 2009

In 19 of the 29 European countries (Central – and South Europe) only the statutorily regulated individuals have the legal authorization to treat patients. In the 10 remaining countries (North – Europe) non-statutorily regulated individuals can offer care. In these countries several responsibilities stay in hands of medical doctors. The authorities control CAM practices by a “permit to practice”, a licence, a protected title or voluntary registration. A supervising commission is installed in these countries. This commission determines which type of CAM can be considered as “sound professional practice” when delivered by statutorily regulated individuals. The practice by statutorily regulated individuals is strictly limited in some countries whereas in other countries these statutorily regulated individuals can have a free, unlimited practice.

“Plants” and homeopathic medicines authorized on the market are controlled by specific European directives and these directives are implemented in national legislation.

How can we protect patients from treatment inadequacy? The best way would be the recognition of CAM treatments in an adequate and legal way but is it better to limit the practice of CAM to accredited persons (Central and South Europe) versus not accredited persons (Northern Europe)? Is the efficacy and quality of the CAM sufficiently verified in order to consider its introduction in the healthcare systems?

Table 2: regulated CAM in different European countries.

X: year of legalisation unknown.

Y: new law in preparations.

Countries	Regulating CAM providers by law								License	CAM Register
	No	Yes								
		Chiro- practices	Osteo- pathy	Napra- pathy	Homeo- Pathy	Acu- puncture	Naturo- -pathy	Phyto- therapy		
Austria	no									
Belgium		1999	1999		1999	1999				
Bulgaria					2005					
Cyprus		x	y			y				
Czech Republic					2002					
Estonia	no									
France	no									
Denmark		1992								2004
Finland		1994	1993	1994						
France			2002							
Germany									1939	
Greece	no									
Hungary									1997	
Iceland		1990	2005							2005
Ireland	no									y
Italy		x								
Latvia (physicians)					x	x				

## EVIDENCE BASED HOMEOPATHY NOVEMBER 2009

Liechtenstein		1985								
Lithuania (physicians)					x					
Luxembourg	no									
Malta		x	x			x				
The Netherlands	no									
Norway		1988								2004
Poland	no									
Portugal		2003	2003		2003	2003	2003	x		
Spain					2009					
Slovakia	no									
Slovenia	no									
Sweden		1989		1994						y
Switzerland		x	x					x		
UK		1994	1993		1950	y		y		x
Number	11	13	8	2	7	4	1	1	3	4

### Teaching of homeopathy and use in hospitals in 22 European countries (5)

#### Austria :

Officially recognized diploma as an additional qualification (medical doctor / veterinary doctor qualified in homeopathy). Postgraduate education. Optional **introduction course** on CAM during basic education at the universities of Vienna, Innsbruck and Graz.

*In 7 hospitals homeopathic care is possible on consultation.*

#### Belgium :

Post-graduate **diploma** delivered by private schools. A National diploma exists delivered by the Homeopathic Faculty, grouping the different schools.

A compulsory optional **introduction course** at the University of Leuven (U.C.L.)

*No official possibility for homeopathic care in hospitals but patient's rights include homeopathy as a possible patient choice in collaboration with the family medical doctor.*

#### Bulgaria :

Postgraduate **diploma** in private schools recognized by the medical association.

*No possibility of homeopathic care in hospitals.*

#### Czech Republic:

Postgraduate **diploma** in private schools.

*No possibility of homeopathic care in hospitals.*

#### Denmark:

**Education** in private schools open for everybody (no former medical education required)

*No possibility of homeopathic care in hospitals.*

(5) ECH – Legal status of Homeopathy in Europe. Overview 2005 – updated 2009.

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9

Finland :

**Education** in private schools open for everybody (no foregoing medical education required)

*No possibility of homeopathic care in hospitals.*

France :

Officially recognized **diploma** as an additional qualification (medical doctor /veterinary doctor qualified in homeopathy). Post-graduate education at the universities in Aix-Marseille, Besançon, Lille, Paris-Bobigny, Bordeaux II, Limoges, Poitiers and Lyon. Private schools also exist

Optional **introduction course** of CAM during the basis education at some universities

*In 2 hospitals patients can come for a homeopathic consultation: Hôpital St. Jacques en Hôpital St. Luc Paris.*

Germany :

Officially recognized **diploma** as an additional qualification (medical doctor /veterinary doctor qualified in homeopathy). Post-graduate education at the universities of Berlin, Düsseldorf, Hannover, Heidelberg and Freiburg.

Private schools also exist

Compulsory optional **introduction course** of CAM during the basic education at some universities

*In 1 hospital patients can come for a homeopathic consultation: 'Charité' hospital in Berlin.*

Greece:

Postgraduate **diploma** in private schools and some universities.

*No possibility of homeopathic care in hospitals.*

Hungary :

Postgraduate **diploma** in private schools recognized by the medical chamber.

*No possibility for homeopathic care in hospitals.*

Ireland :

Postgraduate **diploma** in private schools open for everybody (no foregoing medical education required).

*No possibility for homeopathic care in hospitals.*

Italy :

Officially recognized **diploma** as an additional qualification (medical doctor /veterinary doctor qualified in homeopathy). Post-graduate education at the University of Aquila.

Private school exist also.

Optional **introduction course** of CAM during the basis education at some universities

*No possibility for homeopathic care in hospitals.*

Luxembourg :

Postgraduate **diploma** in private schools.

*No possibility for homeopathic care in hospitals.*

Netherlands:

Postgraduate **diploma** in private schools.

Optional **introduction course** of CAM during the basis education at some universities

*No possibility for homeopathic care in hospitals.*

Norway :

**Education** in private schools, open to everybody (no foregoing medical education required).

*No possibility for homeopathic care in hospitals.*

Poland :

Officially recognized **diploma** as an additional qualification (medical doctor /veterinary doctor qualified in homeopathy). Post-graduate education at 8 universities.

*No possibility for homeopathic care in hospitals.*

Portugal :

Postgraduate **diploma** in private schools.

*No possibility for homeopathic care in hospitals.*

Romania :

Officially recognized **diploma** as an additional qualification (medical doctor /veterinary doctor qualified in homeopathy). Post-graduate education at 8 universities.

Optional **introduction course** of CAM during the basis education at some private universities

*No possibility for homeopathic care in hospitals.*

Slovenia :

Postgraduate education at the private school of the Slovenian Homeopathic Society accredited by ECH.

*No possibility for homeopathic care in hospitals.*

Spain :

Officially recognized **diploma** as an additional qualification (medical doctor /veterinary doctor qualified in homeopathy). Post-graduate education at the universities of Sevilla, Murcia and Barcelona.

Optional **introduction course** of CAM during the basis education at some universities

*No possibility for homeopathic care in hospitals.*

Sweden :

**Education** in private schools open for everybody (no foregoing medical education required).

*No possibility for homeopathic care in hospitals.*

Switzerland :

Postgraduate **diploma** in private schools. At the university of Bern education in CAM is available.

*Homeopathic care only in private hospitals.*

Great - Britain :

Officially recognized **diploma** as an additional qualification (medical doctor /veterinary doctor qualified in homeopathy). The official recognized “Faculty of Homeopathy” delivers the diploma’s. Postgraduate education in private schools open for everybody. Optional **introduction course** of CAM during the basis education at some universities  
*In 5 hospitals homeopathic consultations are possible: London, Liverpool, Bristol, Tunbridge Wells and Glasgow.*

Homeopathy in intensive care and emergency services: Recent publications show the benefit of homeopathy in hospitals but also in emergency services for patients in critical state (6,7,8,9,9a). The authors suggest the development of algorithms including homeopathy allowing quick and adequate reactions for these patients.

The place of Homeopathy in INDIA.: Homeopathy is available for patients in 230 hospitals (10.851 beds) and 5.836 dispensaries. 217.850 practitioners are officially registered. 216 colleges are teaching homeopathy.

The place of CAM in the U.S.A.: The Consortium of the Academic Health Centres (7) integrate CAM in **30 university medical centres**. As in Great-Britain the concept of “integrated” medicine predominates. All possible treatments must be offered to the patient. This attitude is based on the results of intensive scientific research on CAM Until now the results are very hopeful for homeopathy.

Summary of first part:

In the World, the use of homeopathy has increased in a lot of countries. In Europe, homeopathy, as other CAM, is already partly regulated. Homeopathy is integrated in 6 of the 22 countries. Medical students get familiar with CAM by an introduction course in 9 of the 22 countries. A postgraduate diploma in homeopathy is recognized in 18 of the 22 countries. Despite the interest there are still some queries outstanding before considering full integration in all countries. Part 2 will study the reasons for this reservation.

(6) Oberbaum M et al. (2005). Homeopathy in emergency medicine. Wiener Medizinische Wochenschrift, 155:491-7. // Frass M et al. (2005). Adjunctive homeopathic treatment in patients with severe sepsis: a randomized, double blind, placebo-controlled trial in a intensive care unit. *Homeopathy*, 94:75-80. //

(7) Frass M et al. (2005). Influence of potassium dichromate on tracheal secretions in critically ill patients. *Chest*, 127:936-41.

(8) Marques Arpa A (LMHI 2008). Arnica in sepsis: Clinical cases at the Intensive Care Unit with Complementary Homeopathic Treatment.

(9) Teixeira MZ, Leal SM, Ceschin VMFA. Homeopathic practice in Intensive Care Units: objective semiology, symptom selection and a series of sepsis cases. *Homeopathy*. 2008;97:206-213.

(9a) Cupera J. Homeopathy at Intensive Care Unit – Case reports of Pyrogenium in Sepsis. Proceedings 64<sup>th</sup> LMHI Congress Poland.

(10) <http://www.imconsortium.org>

## Second part of chapter II

### Arguments in relation to the reservation against CAM in general and homeopathy in particular.

We know that in some European countries integration of homeopathy in the health service, even at University hospitals, is already accomplished. Nevertheless, some people resist this integration.

The conventional pharmaceutical industry, with its enormous financial power, do not like the development of “other” medical medicines that could be an alternative for their market. This resistance is not really structured but competition is always a problem and if there is some opportunity to limit the action field of the “others” they will not hesitate to use it.

The “rationalists” are not so numerous but very well organised and very influential on the mass media. One single argument is sufficient to condemn everything they do not accept: *“it is simply impossible that something would exist out of their rational way of thinking”*.

Scientific doubt is rejected. Scientific facts, that does not find an explanation within their paradigm, are a priori false. *“Somewhere there must be an error”*. This “rational world” is based on, and limited to, the molecular paradigm which is part of molecular biology. Outside this scientific paradigm nothing can exist. However, other intercellular communication means do exist: Biophotons (11) and biophonons (12) have been identified; they are activated by the communications between cells and molecules. There is also the molecular print in a solvent (13) these facts are not explicable by the molecular biology. Even effects of hormones cannot be explained only by the molecular theory because the amount of molecules is insufficient to explain the amount of activated cells receptors; therefore the so called “amplification” phenomenon must be developed.

(11) Popp: “Electromagnetic Bio-information” edited by Urban and Schwarzenberg in 1989

(12) Frohlich : existence of coherent longitudinal electromagnetic waves of low energy ( $h\nu \leq \kappa T$ ) in living organisms.

(13) Rey L.R., Thermoluminescence of ultra-high dilutions of lithium chloride and sodium chloride, Physica A, 2003, 323 : 67-74.// Rey L.R., Glimpses into the physical behaviour of ultra-high dilutions, LMHI 2008.

As such, the major reason for refusal of scientific research in the field of homeopathy is a theoretical reticence. Research is not necessary because the observed effects cannot fully match the molecular paradigm and its investigations' methods. Therefore possible cures with homeopathy must all be due to the placebo effect associated with psychological influences (believing) and even spontaneous healing. Of course this position forgets the results achieved on animals and children. As an example of this position, we can consider a publication in "The Lancet" (14), in fact a scientific fraud (15-16), but such publication based on manipulation of facts would be sufficient to justify the placebo theory and refusal of further research into homeopathy. By redoing this statistical exercise, it was possible to confirm the fraud and to conclude that the conclusions of this publication must have been written before looking at the facts. The authors used a new mathematic model for literature analysis that could confirm these conclusions. Unfortunately, the strict application of this new method came to a conclusion they did not desire, namely homeopathy is efficient in certain areas. The authors preferred to avoid these results and to quote only some negative results in accordance with the "a priori" decided conclusions. The redaction committee of "The Lancet" were very interested in the negative conclusions and the impact such publication could have in the mass media and did not scrutinize enough the content of this paper.

In fact this is a war between two different paradigms. The dominant paradigm must explain everything and if something cannot be totally explained by this dominant paradigm, it will be considered as artefact. However, a new paradigm exists and can explain all facts; it is *the paradigm of information*. It does not "eliminate" the *molecular paradigm*, it is an additional paradigm that can explain facts that the molecular paradigm does not explain.

(14) Shang A, Huwiler-Müntener K, Nartey L, Jüni P, Dörig S, Sterne JAC, Egger M. Are the clinical effects of homeopathy placebo effects? Comparative study of placebo-controlled trials of homeopathy and allopathy. *Lancet* 2005;366:726-32

(15) Lüdtke R, Rutten AL. The conclusions on the effectiveness of homeopathy highly depend on the set of analyzed trials. *J Clin Epidemiol*. 2008;61:1197-1204. Doi: 10.1016/j.jclinepi.2008.06.015

(16) Rutten ALB, Stolper CF. The 2005 meta-analysis of homeopathy: the importance of post-publication data. *Homeopathy* 2008;97:169-177.



Another problem is that common medical doctors, especially specialists, are not interested in other medical approaches. They know very well what they are doing every day; they are satisfied with the results obtained in a majority of their patients and do not need something else so far from their daily practice. They are only interested in more research and information about improvement of their actual practice. If some patients are not ameliorated by, or do not tolerate the proposed treatment, they are classified as “difficult”, “untreatable” patients. The therapy will not be questioned and research on other approaches will not be considered. They are not “against” homeopathy but why would they encourage better studies on a medical approach they do not know?

## Third part of chapter II

### Ethical aspects

#### The Position of Ethics.

Two fundamental rights must be taken into account: the therapeutic freedom for therapists and the freedom of choice of therapy for the patient.

#### **1. the bio-ethic of the 21st century and her sources:**

It is good to mention some existing important ethical lines and their applications in the field of alternative medicine. If we consider the actual medical ethic, one can observe that there is a tendency to go further than the oath of Hippocrates, just because the ethic is taking into account technical and human complexity. So medical ethics is in permanent mutation and permanently questioned.

##### **a. Appearance of the medical techno-science.**

In the context of the medical technology, especially in the fields of research connected with human life, the bio-ethic is concerned. Science can not remain morally neutral.

##### **b. The role of the concept “scientism” in the actual way of thinking:**

3 important steps are distinguished by A. Comte in the evolution of a human being.

1. the theological step: humans cannot explain understandable phenomenon by religion.
2. the metaphysical step: the appearance of abstract entities.
3. the step of the positivism.

##### • Phenomenons are connected to laws. (Constant relation between phenomenons).

In the positivist attitude, science becomes the foundation of the individual and social life. The moral conscience is obliged to evolve as quickly as the evolution of the science as consequence of this positivist attitude. The result is an ethical revolution. Trying to define the actual concept “moral”, a possible approach can be in connection with his hereditary nature: the moral conscience is the result of the heritage of the human feelings (example: compassion, devotion). Thus the “moral” is the result of the sociobiological evolution we transmit. This approach of the terminology “moral” can be confirmed by the inability of the human being to make a final law about human rights. It is necessary to consider an evolving bio-ethic, based on the evolution of the nature of the human being.

##### • Where would we situate homeopathy and CAM in this context?

Using the positivist attitude, homeopathy is based on the fact that it is a fully experimental science. But homeopathy exceeds this positivist attitude, keeping a “metaphysical” aspect. The homeopathic phenomena are only linked to the natural right.

**c. Positivism.**

Conventional medicine is based on scientism. It is important to underline that the representatives of this conventional science determine laws, allocations of budgets and the composition of the ethical committees. The National Ethical Committee is composed and directed by researchers who are at the same time judge and jury! Therefore we can understand that political action is based on ethical orientations submitted to the rules of the dominant science paradigm. Orientations are decided not only by a compromise between individuals but also by a social consensus. The actual ethic is indeed accepted by the majority of the people but it is not based on the individual rights of every human being. In this way it is immediately submitted to the legislative power.

The actual ethic is based on 2 principles:

- 1) Difference between *the ethic of conviction* and *the ethic of responsibility* (Theory of Weber)
- 2) Discussions as empirical tool to come to a consensus.

The ethic of conviction is based on the principles of the metaphysics and religion. On the other hand, the ethic of responsibility disregards these principles. The ethic of responsibility is more adapted to a rational approach of the problems caused by the progress of the medical research. When formulating a law, a consensus can be reached by discussion. Society confirms the accepted laws. These laws are the result of a dialogue based on the expression of all opinions above all convictions. References to “truths” or to the “absolute” must be avoided because interaction would not be possible anymore. It may become clear that the moralistic philosophy and the positive right have different subjects and methods. The positive right covers the practice, protects persons and punishes infringements: at this level a minimal consensus will be sufficient.

**d. Access to the metaphysical dimension of the human being.**

It allows describing the limits of positivism. Therefore it is necessary to look at the relation between the positive and metaphysical sciences. Agnosticism and Progress ideology (amelioration of mankind and well-being) dominate our actual society.

- A human being is unique and sensitive;
- A duality in science could exist: science can explain the universe but who explains science?
- Certainly there is a relation between science and spirit.

Positive sciences should only be an instrument. A human being uses this instrument, but should not be enslaved to it. Natural sciences show us how deeply we are anchored to the very depths of nature. These sciences teach us to know our impact and our responsibility to nature; a human being creates science but goes beyond this science by his spirit.

This last approach may be considered as individualistic and keeps no account with the social responsibility which is, as we have already seen, totally different. Must we accept to go on with the split between the social and individual ethic?

Because of the evolution of quantum physics, we know that homeopathy and the other CAM are not considered science as the other sciences are. In this connection we have an ethical problem. The individual approach dominates in homeopathy but the social responsibility of the medical doctor homeopath is the same as of every other medical doctor.

## ***2. The bio-ethic and its most important currents.***

The most common definition of the bio-ethic could be formulated as following “*science of morals*”. This definition is confusing because the reason for the existence of ethics is not scientific. All bio-ethical problems such as research on embryos and euthanasia divide our conscience. These problems also penetrate the field of contemporary homeopathy.

Let us reflect the origin of the word “ethic”, originated from the Greek word “ethos” (“*safe home*”). Referring to this source, one finds that ethics is neither a matter of arguments, nor of concepts. Ethics is more a state of mind, a way of being in the presence of the pain appearing on the face of another. Emmanuel Levinas defines pain as “*the impossibility of finding a safe home*”. So, it should be logical to consider ethical, all actions done with the expectation to make the world more liveable. Homeopathic medicine and CAM, like the whole humanistic world, is par excellence a medicine of hospitality, listening to the patient with the purpose of enlightenment of the pain by offering him a new “safe home”.

It is interesting, in accordance with the discussions going on at this moment at international level about the factor “health”, to explain two dominant ethical sensitivities:

- the first one is the “*utilitarian ethic*” predominant in the Anglo- Saxon world.
- the second one is the “*deontological*” inspires more the continental way of thinking.

We will place homeopathy and other CAM therapies in relation to the problems encountered concerning the national diversity of the concept of philosophy.

### A. The utilitarian Ethic.

The emphasis is put on the “utility” of each action for “the highest happiness for the most possible number of people”. The utilitarian concept evaluates the moral value of an action to its consequences (not the intentions but the consequences count). The founder (Bentham) of the utilitarian ethic said: «*good is what is good for me without harming the other*». The utilitarian ethic is also called «*naturalistic*»: namely acting according to good is acting respecting the gifts of nature to us.

It is a philosophy proclaiming the “doctrine of enjoyment” and as such including the free transactions between persons under the form of a contract. The problem of a woman carrying a child for another woman or the selling of cosmetics is illustrative: why forbid when everybody enjoys it?

### B. The Ethic of the Deontology.

The deontological ethic (“Deon”= Greek = what is necessary to do) is not based on the right of enjoyment but on the duty to the respect for the other person. Here one could say that it is a “*person-bound*” ethic. Kant is the symbolic person for this movement. Not only are the consequences of an action important but also the intentions preceding our behaviour. “*Act in a way you should treat humanity as well as you would yourself and the other; always and at the same time as an aim and never only as a tool*”. We cannot accept a world where people consider their body as a business.

### C. Applications to CAM.

Homeopathy and CAM were the object of so much scepticism in the 20<sup>th</sup> century. This is mainly because of the fact that they are integrating science and “non scientific” knowledge. They seem to leave the framework of the positivist medicine. To integrate homeopathy and CAM in our health service, they have to be in harmony on the ethical level. Ethical questions, typical for complementary and alternative medicine must be considered. What is needed to integrate them safely into the existing health system, offering patients and medical doctors a free choice of therapy?

#### **a. Developing at European Union level, and in the world, legislation allowing the integration of CAM in the health services.**

The integration of the practice of CAM and homeopathy in free medical practice and in the structures of hospitals is necessary. It is a matter of social and ethical good sense. For medical doctors, the social and collective responsibility is also linked to their deontological responsibility. By integration, it will be ethically possible to offer patients more medical approaches respecting freedom of choice even when s/he moves from one country to another.

**b. CAM therapies have their own fields of action and indications and are not allowed to replace the conventional medicine with its specific indications.**

It is necessary to define the indications for CAM; homeopathy and some CAM therapies are curative in certain clinical situations. In some pathologies, scientific studies showed positive results. On the other hand, their application may not be indicated in other specific situations and modern technology would be preferred in order to help the patient.

**c. Problems related to life.**

A medical doctor will be consulted regularly for problems related to “life”. The medical doctor, having at his/her disposal complementary and alternative therapies, is more able to advise the patient about a medicine respecting natural rights. His advice can be an element for discussion in regard to a heavy technical intervention. On the other hand there must be a deontological ethic to this advice evaluating also what may be the consequence of this decision for the well being of the patient.

**d. The freedom of choice for the patient as well for the physician.**

This is a fundamental right, based on clear and unbiased information which a medical doctor can give to a patient. At this level the education of a medical doctor in conventional as well as in alternative medicine is necessary. After a medical diagnosis it will be possible, for this medical doctor, to offer his patient different possible available treatments. The patient can make his/her choice when s/he is well informed. When the physician has to make this choice, he has to consider all ethical aspects as well as the methods he considers using for treatment.

**e. Homeopathic medicines.**

Homeopathic medicines have very precise indications. Their action is proved by research and validated clinical trials (see further). Homeopathy is an experimental science, based on clinical research and verification. On the other hand, research gets only little support at the national level as well as the European or intercontinental authorities. CAM and especially homeopathy ask for validation and financial support by the authorised authorities so that from an ethical point of view the user of these products can get guarantees about safety and efficacy.

**In conclusion:**

Looking towards a more humanistic medicine, in contrast with a very technically and over specialized medicine, the reconciliation between scientific progress and respect for the human person must be a priority.

Therapies like CAM and homeopathy have several indications in the field of chronic as well as in the field of acute diseases; even within very extreme situations as we may see in the intensive care unit, homeopathy can help patients.

For the well-being of everybody, the development of research within CAM and homeopathy is necessary; funding it, in a correct way, is needed as is a good education in Medicine and in CAM for the physicians using CAM.

**The patient becomes impatient.**

When everything is regulated, a free choice for the patient and the medical doctor will be possible. Efficient results and the amelioration of a patient's health and welfare will be guaranteed.

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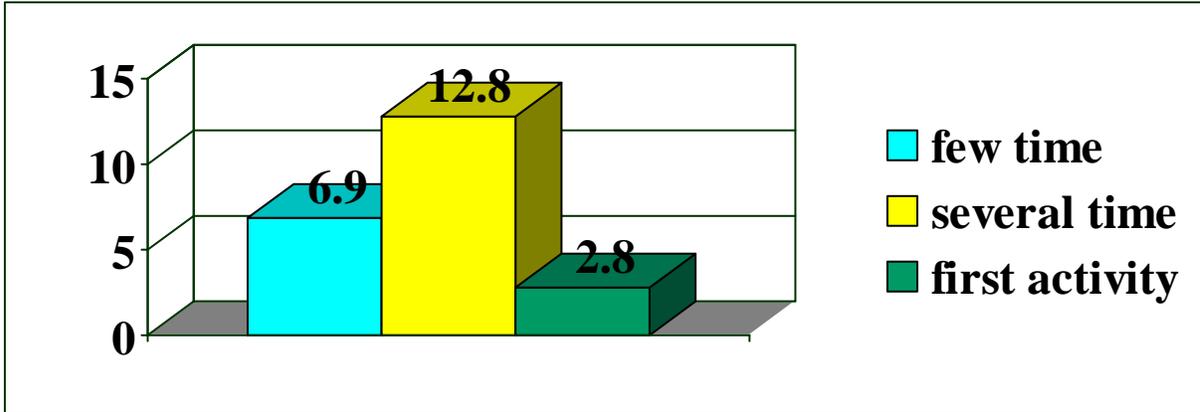
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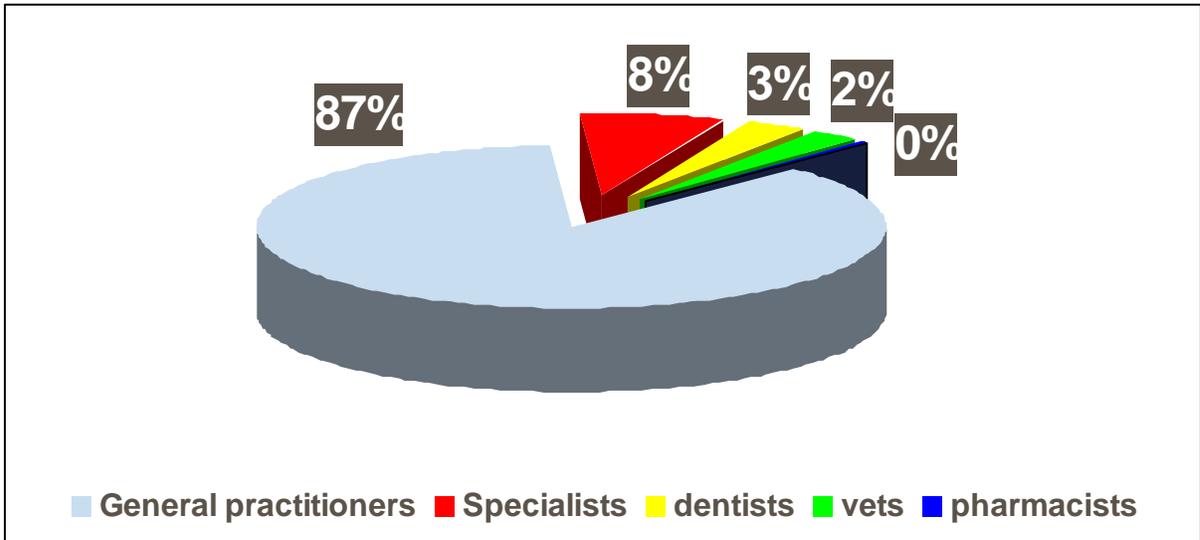
CHAPTER III

Framework of the practice: Belgium (Europe) as example.

More than 22% of the family doctors prescribe homeopathic medication more or less on a regular basis. 3% of them prescribe homeopathy as a first choice.

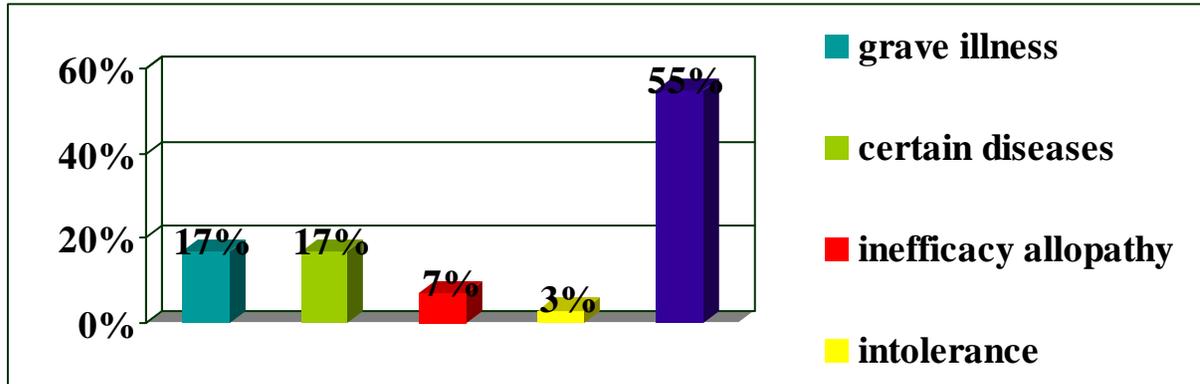


The profile of the medical doctor homeopaths, members of a Union shows that a majority (87%) are GPs.



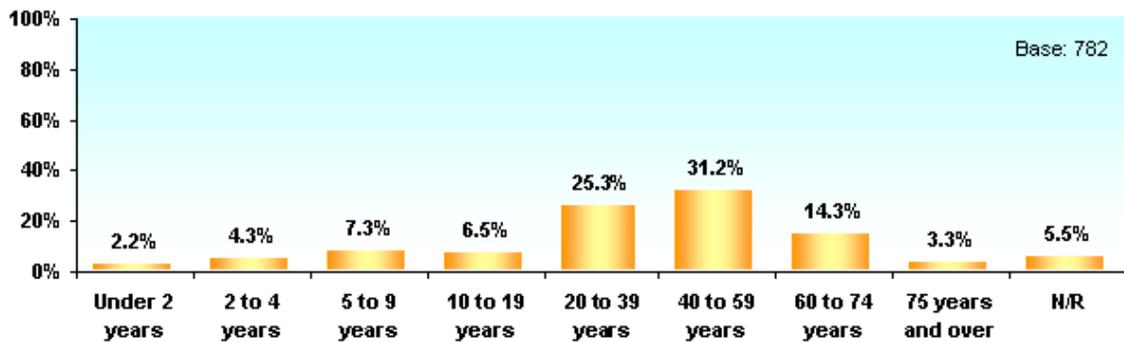
The reasons why patients ask for a homeopathic treatment are very various and are certainly not limited to “easy to cure” indications.

Inquiry of 6000 persons, representative of the Belgium population, 45% use homeopathy.

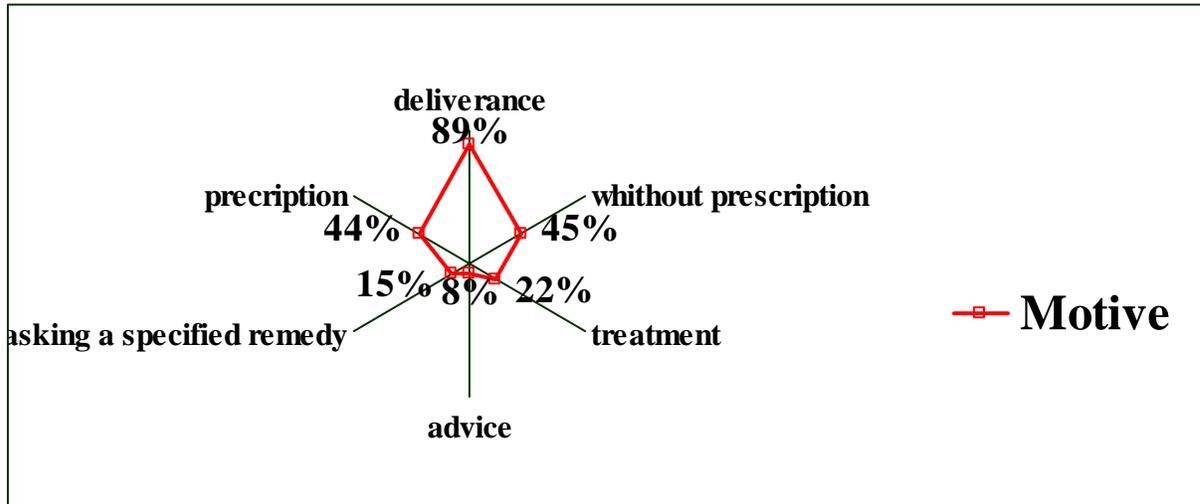


All ages are represented, from paediatrics to 75+. The group above the 55+ is considered to be the most expensive for the budget of the national health service.

3.1.2 Age group overall



The demand and delivery of the medication in the pharmacy was also scrutinized in the same inquiry. Auto-medication covers 15% of the demand; the physicians (prescriptions) are responsible for 44% and the pharmacists' advice cover 30%.



One may conclude that the use of homeopathic medication is widespread (even more than expected including self medication and pharmacists' advice).

Within the framework of the complementary insurance, reimbursement of prescribed homeopathic medicinal products is possible from 25% to 50% of the price.

Several inquiries on medical doctor homeopaths show that most of them prescribe homeopathy within the framework of first line medicine.

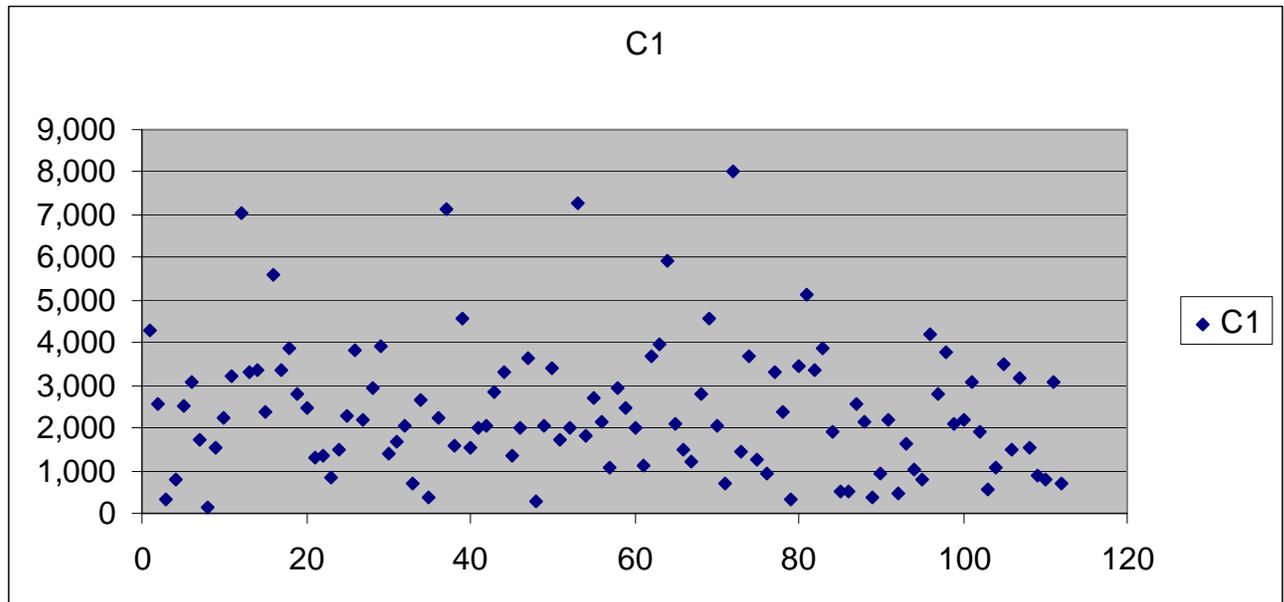
Every MD receives, yearly, his individual profile of prescriptions of **medical imaging** and **clinical biology** from the National Institute of Health. We, regularly made a comparison between the profile of MD homeopaths and all other physicians.

52% of the accredited GP homeopaths sent their profile. The values of the consecutive years were put together and a year average calculated.

The year average of patient contacts was 2.415. 34% of the Belgium physicians are doing fewer consultations. 66% are doing more consultations.

If we consider the average amount paid back by the insurance for each individual patient contact concerning **medical imaging**, the value for this group is 2.6 meaning that only 26% of the Belgian physicians cost less. 74% of the physicians cost more than the group of homeopathic physicians.

Scheme 2: Distribution of the yearly patient contacts.



If we consider the total amount of yearly prescriptions of **clinical biology**, of MD homeopaths the worth is 2,9 meaning that 29% of the Belgian physicians prescribe less, 71% prescribes more. The average number of requested analyses for each prescription is higher under the MD homeopaths in comparison to the average of Belgian physicians (worth 3,7). MD homeopaths are prescribing more complete biological evaluation than the MDs but in a lower frequency. This means that concerning **the total amount of demanded medical analyses**, 37% of the physicians prescribe less than the MD homeopaths, 63% more.

If we consider **the average amount paid back by the insurance on each individual patient contact** (if we should have the same number of yearly consultations) concerning **clinical biology** the value by patient contact is 4,8 meaning that 48% of the Belgium physicians cost less, 52% more.

This confirms that the specific medical act of the homeopathic physicians creates no particular problems for social insurance. **If the costs of the clinical biology are added to the costs of the consultations the total amount for the homeopathic group situates itself at the value of 3,3 meaning that 33% of the Belgian physicians cost less, 67% cost more to the national insurance service.**

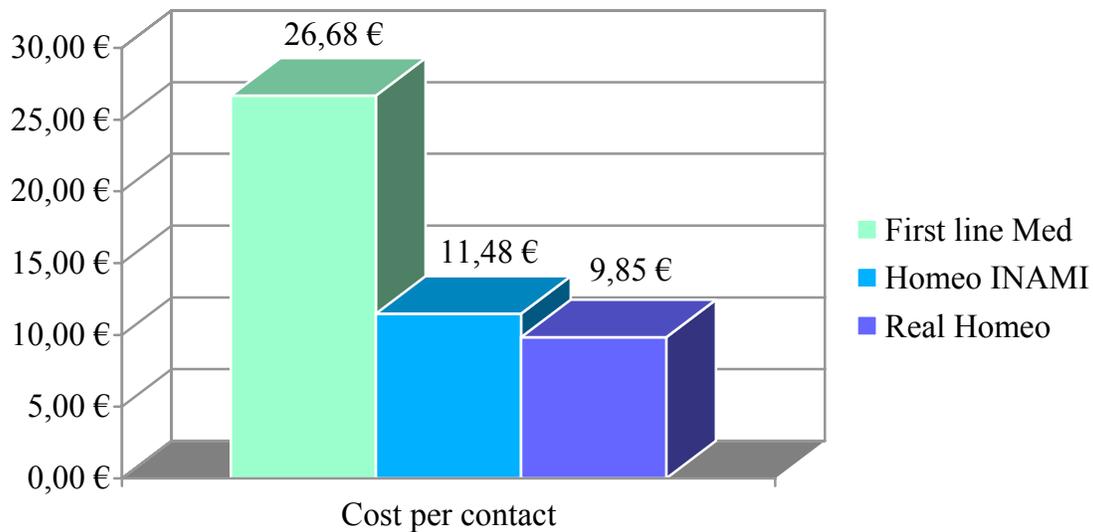
More information would be needed about the profile of the patients consulting a homeopathic physician, in comparison with the profile of patients consulting conventional physicians. If the practice of a homeopathic physician were completely different from the conventional one, an extrapolation could indeed have been biased. The same problem exists if the patients consult also, on a regular basis, conventional physicians for supplementary analysis. In fact, we are already sure that it is not the case, 50% of patients are asking for a Global Medical File (inscription) by a MD homeopath.

**CONCLUSIONS:**

- The practice of homeopathic doctors is part of the framework of medical practice. Clinical biology and medical imaging are used when necessary.
- No abnormalities are found concerning insufficient or exaggerated prescription profiles. The profiles of MD homeopaths are similar in comparison with the conventional colleagues.
- No significant difference in the prescriptions of clinical biology and medical imaging prescribed by MD homeopaths in comparison with the conventional colleagues.
- The biological analyses of the homeopathic physician are more complete and extensive.

Comparison of the prescription costs at each consultation.

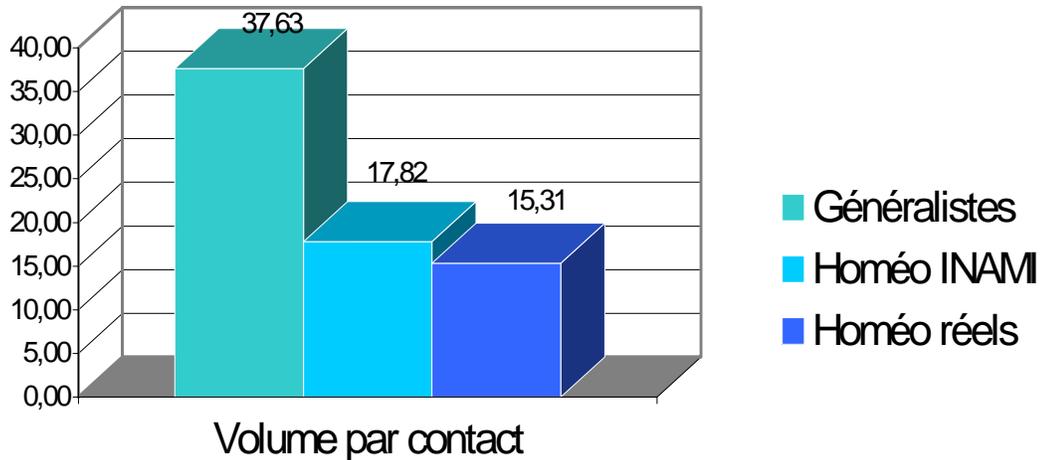
For GPs the cost of the prescription at each consultation is about **27 €**  
 GP homeopaths prescribe, at each consultation, conventional medication for about **12 €**



The amount of patient contacts of MD homeopaths is based on the reimbursed consultations by the National Institute of Insurance Service (INAMI). A lot of patients are insured through private insurance companies and as such are not counted as patient contact but supply of medicines is counted. Therefore, the real number for consultations is higher and the real cost for each consultation must be corrected to **9,85 €** per patient contact.

Some could say that this difference exists because the homeopathic physician treats less severe ailments. We know however that a homeopathic doctor treats chronic and severe diseases. We can justify and confirm these results by studying the volume of each prescription at each consultation.

## volume per contact



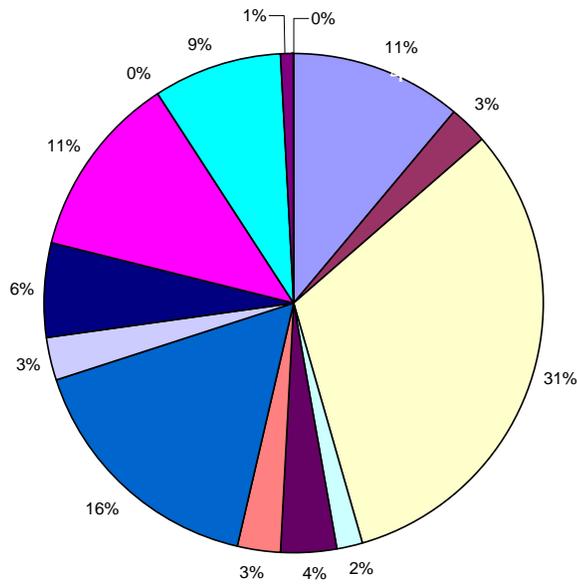
### Comparison between medicinal products.

The 2 following tables show clearly that the homeopathic physicians prescribe relatively more conventional remedies linked to blood and cardio-vascular problems in comparison with all medical GP's.

On the other hand, MD homeopaths prescribe less in other sectors, such as NSAID and antibiotics. Here a difference of 50% is remarkable.

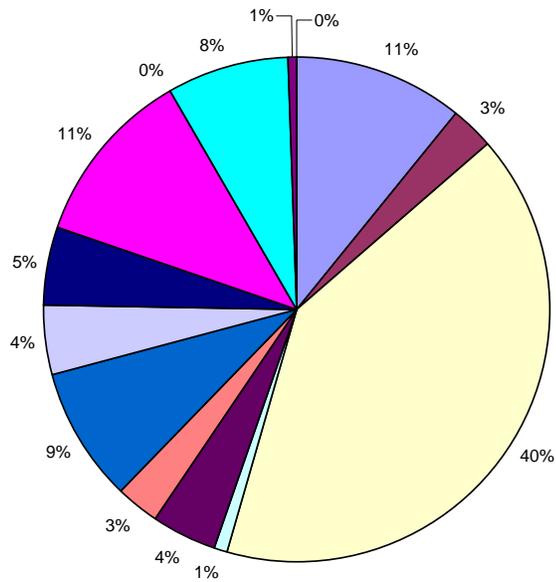
# EVIDENCE BASED HOMEOPATHY NOVEMBER 2009

Group: all general practitioners



A) Stomach- Bowel and metabolism	2,821,927,586
B) Blood and related system	658,112,663
C) Cardiovascular system	8,255,730,375
D) Skin Preparations	425,834,184
G) Uro-genital system including sexual hormones	931,036,645
H) Hormones except sexual hormones	657,816,135
J) Antibiotics- antiinfectious general	4,267,869,391
L) Cystostatic immunomodulation agent	688,306,116
M) Bone and muscular system	1,571,803,524
N) Central nervous system	3063,849,422
P) Antiparasit	6,906,430
R) Respiratory system	2,200,219,686
S) Sense organes	142,806,140
V) Diverse	27,417,668

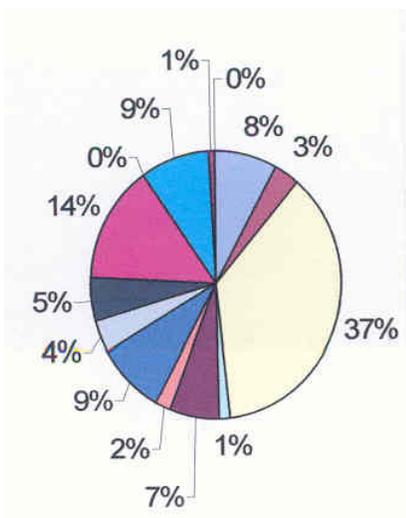
Group : general practitioners- homeopaths



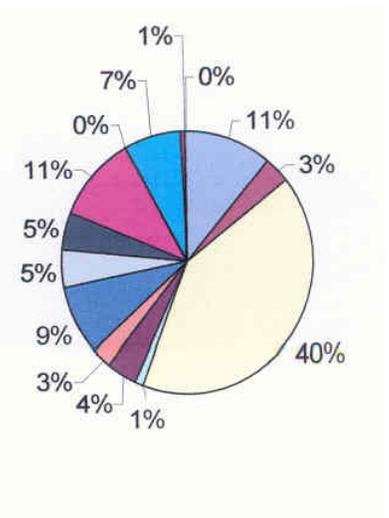
A) Stomach- Bowel and metabolism	
B) Blood and related system	
C) Cardiovascular system	
D) Skin Preparations	
G) Uro-genital system including sexual hormones	
H) Hormones except sexual hormones	
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L) Cystostatic immunomodulation agent	
M) Bone and muscular system	
N) Central nervous system	
P) Antiparasit	
R) Respiratory system	
S) Sense organes	
V) Diverse	

Mutual comparison between homeopaths.

**Homeopaths few contacts**



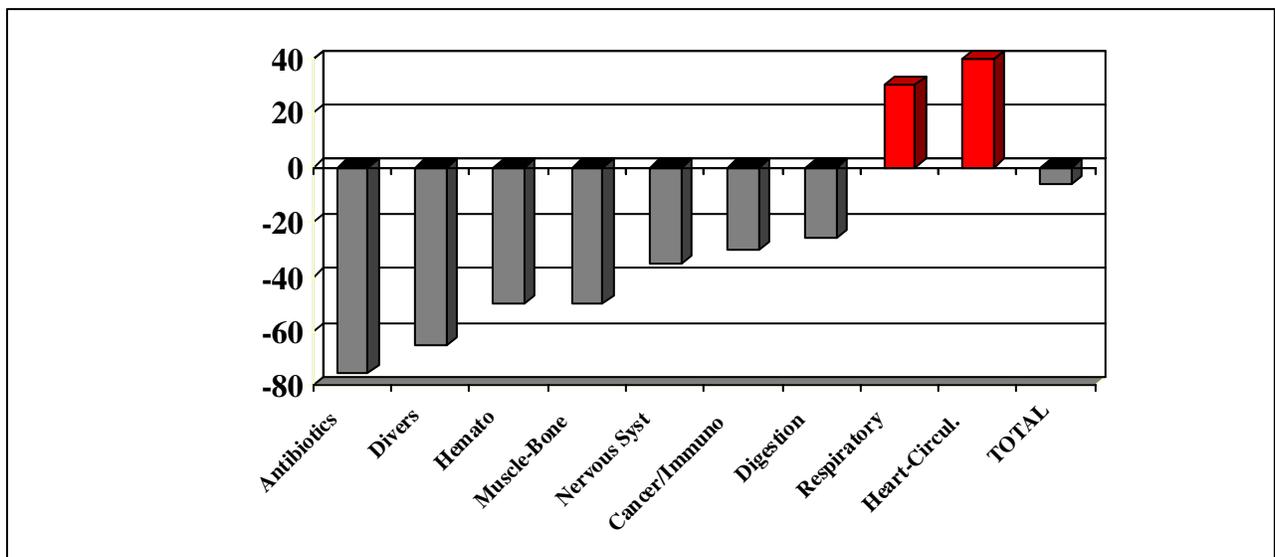
**Homeopaths many contacts**



Homeopathic doctors with many contacts (more than 1.394 in 6 months) prescribe relatively more conventional cardio-vascular remedies than the one with few contacts (less than 1.394). But Homeopathic physicians with few contacts prescribe still more than conventional colleagues.

This group of homeopathic physicians with few contacts prescribes also more hormones and remedies related to the central nervous system at each consultation. May be the reason is that they see a patient less frequently and the time between two consultation is longer, they have to foreseen patients with enough medicines to cover a larger period.

A homeopathic doctor sees more patients with respiratory tract problems than conventional colleagues. This is not the case for cardio-vascular problems, here no homeopathic alternative exists.



## Conclusion of these surveys:

- The medical activity of the GP homeopath is done **in the framework of medicine**.
- Prescriptions of conventional remedies occur when necessary.
- The **amount of patient contacts** is **24%** lower for MD homeopaths in comparison with all GPs.
- The **cost of each prescription** of GP homeopaths for conventional remedies is **50 %** lower (more or less 15 €)
- For hormonal treatments, uro-genital and **cardio-vascular pathologies**, homeopathy is not an alternative for the conventional treatment.
- On the other hand, there is a **spectacular decrease in percentage of prescriptions of NSAIs and antibiotics**. This is very important for health care in general because it reduces the risk of resistance against antibiotics and subsequent iatrogenic disease through NSAIs (stomach ulcers).
- All together knowledge and use of homeopathy can generate a considerable decrease of the volume and of the cost of the prescriptions at each patient contact (especially for antibiotics and NSAIs)

Of course this survey does not allow evaluation of the cost of homeopathic medicine because these data are not taking into account by the National Institute of Insurance Service (INAMI)

It would be interesting to analyse the number of contacts, by a single patient, with a conventional GP in addition to the contacts with a MD homeopath when it exists.

5 a year, is the average amount of contacts for each patient to a GP homeopath.

**The strategy of a treatment (only conventional or only homeopathy or both) depends on the diagnosis. Homeopathic therapy is only possible within the framework of medical practice taking into account the freedom of therapy for the medical doctor.**

All these results are published (17) and some more facts are of interest:

The treatment by a homeopathic physician causes an important reduction in the consultations with another GP or a specialist (2/3 less). The patients in the worst physical condition at the start of the treatment derive the most benefit from homeopathic treatment. The average length of a homeopathic consultation is 37 minutes.

(17) Van Wassenhoven M, Ives G. An observational study of patients receiving homeopathic treatment. *Homeopathy* 2004 January,93:3-11.

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31

As a result of a homeopathic treatment 52% of the patients are able to stop one or more conventional medicines. Particularly medicines for the central nervous system can be consequently reduced (21%) along with medicines concerning the respiratory tract (16%) and antibiotics (16%). The homeopathic physician prescribes only 1/3 of the total amount of medicines prescribed by a conventional physician. For the antibiotics this is even only 1/5. If we extrapolate this to all patients, in the assumption that every physician should prescribe homeopathy, this would give a **reduction of 2/3 on the budget of medicines**.

**Through all these surveys we showed that homeopathy has a place and has to stay or be implemented at least within the general practice of first line medicine. There is no evidence of any medical deviant conduct by the homeopathic physician.**

At the 63<sup>rd</sup> LMHI congress (May 2008) comparable results were presented for France, Italy and USA:

- Chaufferin G. L'homéopathie est-elle coût-efficace ? Homeopathic medicines represent 6% of distributed medicines but only 1% of the costs in medicines for the patients.
- Rocco V, Huck S, Rodriguez AA. Measuring private homoeopathic practice in Italy. An important factor in the decision to come to homeopathy is MDs competence, education and experience.
- Frye J. Comparing use of homeopathy with a practitioner and use as self-care in the U.S. 2002 National Health interview survey.

CHAPTER IV

**Meta analyses – Systematic review**

The « gold standard », accepted by everybody to evaluate the efficacy of a remedy is a meta-analysis or a systematic audit of RCTs. Since 1991, 6 comprehensive reviews concerning homeopathy were published.

The conclusion of all comprehensive systematic reviews was that homeopathy has a positive and specific effect greater than placebo alone. Several randomized and controlled studies (RCT) showed a statistic significant difference between homeopathy and placebo.

**Report about all comprehensive systematic reviews on homeopathic trials.**

**Kleijnen en al. 1991 (18) *British Medical Journal*.** 105 studies with interpretable results. Meta-analysis based on validated criteria.

- 77% of the studies show positive result for homeopathy.
- The results are mostly favourable for homeopathy regarding the quality of trials.
- « There is a legal argument for further evaluation of homeopathy”.

**Boissel en al. 1996 (19) *Report for the European commission*.** 15 studies. Inclusion of only very rigorous studies (highest quality).

- Combined p-values for the 15 studies is significant. (p = 0.0002).
- « It is evident that homeopathy is more efficient than placebo”.
- Little evidence for non-published negative results.
- Further research is justified.

**Linde en al. 1997 (20) *The Lancet*.** 89 studies.

- «Odds ratio» combined 2.45 (95% CI, 2.05-2.93) in favour of homeopathy.
- «Odds ratio» for the best 26 studies was 1.66.
- It is not possible that the clinical effects of homeopathy are due completely to placebo.

**Linde and Melchart 1998 (21) *Journal of Alternative and Complementary Medicine*.** 32 studies, inclusion of studies on individualised homeopathy only (19).

- Individualised homeopathy is more efficient than a placebo: the value of the combined coefficient was 1.62 (95% CI, 1.17-2.23).
- Further pragmatic research is justified.

**Cucherat en al. 2000 (22) *European Journal of Clinical Pharmacology*.** 16 trials representing 17 comparisons with placebo (based on data from the Boissel 1996 study).

- Several studies have positive results. More trials have a positive result than would be expected to chance alone.
- Publication bias is unlikely.
- More clinical trials are needed.

**Shang & al. 2005 (23) *Lancet*.** 110 trials included, but the final conclusion is based on a selection of 8 trials.

- Final conclusion (8 heterogeneous trials) : weak evidence for a specific effect of homeopathic remedies, but strong evidence for specific effects of conventional interventions
- Presented as comparison of homeopathy and carefully matched conventional trials, but data about conclusive trials were missing
- Quality of homeopathy trials is better: 21 (19%) good quality trials for homeopathy, 9 (8%) for conventional medicine.
- Homeopathy is effective for acute upper respiratory tract infections (odds ratio 0.36 [95% CI 0.26–0.50]), based on 8 trials without indications for bias.

### ***Comments on meta-analyses***

Randomised Controlled Trials (RCTs) for homeopathy were originally meant to prove that homeopathy **as a method** is no placebo effect, despite the unknown mechanism of action. For this purpose meta-analyses combined trials for different indications in one analysis. Despite heterogeneity which arises from such combinations, some positive evidence is demonstrated in a number of meta-analysis. We like to stress that these analyses disregard the surplus value of homeopathy. Homeopathy is predominantly used by patients with chronic and recurrent complaints and is valued for the fact that it appears to have systemic effects, exceeding single indications as is common in conventional medicine.

Selecting subgroups in a limited number of trials readily leads to false negative results. The Cochrane Handbook for Systematic Reviews states “Reliable conclusions can only be drawn from analyses that are truly pre-specified before inspecting the trials’ results” (25). The Cochrane Handbook further recommends “Meta-analysis should only be considered when a group of trials is sufficiently homogeneous in terms of participants, interventions and outcomes to provide a meaningful summary”. Pooling of results of studies on different conditions is also questionable if homeopathy works for some conditions and not for others (26). Because of the unknown mechanism of action the

evidence for homeopathy was scrutinised in a way that is not required for conventional therapies. Linde et al (1997) showed that the positive outcome for homeopathy cannot be explained by publication bias (20). Shang et al (2005) showed that quality of homeopathy trials is better compared to conventional trials matched on indication (23).

**The analysis by Shang et al (2005).** This analysis did not comply with the QUOROM guidelines that sufficient information should be given to reconstruct the conclusions. The authors did not reveal which trials (8 for homeopathy, 6 for conventional medicine) led to the final conclusion. Neither the Summary nor the Introduction clearly specified the aim of the study. The meta-analysis does not compare studies of homeopathy vs studies of conventional medicine, but specific effects of these two methods in separate analyses (27, 28, 29, 30). Therefore, a direct comparison must not be made from this study. Post-publication data revealed that the conclusion was not based on a comparison with matched conventional trials, as suggested by the authors (31). The conclusion was based on 8 studies for 8 different indications; the inefficacy of one of these indications, muscle soreness in marathon runners, was already proven (32). The conclusive subset of 8 trials was based on a post hoc definition for 'larger trials',  $n=98$  for homeopathy and 146 for conventional medicine. If 'larger' would have been defined as 'above median sample size', including 14 homeopathy trials, the outcome would be significantly positive. Excluding the indication 'muscle soreness in marathon runners' homeopathy is efficacious in most subsets of larger good quality studies.

Shang et al stated that the asymmetry of the funnel plot indicated inefficacy when compared with conventional medicine. This comparison was not rectified because of difference in quality, especially in smaller trials. For trials with sample size  $<100$  homeopathy had 14 good quality trials and conventional medicine 2 ( $p=0.003$ ). Stronger effect in smaller good quality trials is caused by better selection of patients and then asymmetry of the funnel plot is no indication for bias. Funnel plots are thought to detect publication bias, and heterogeneity to detect fundamental differences between studies. New evidence suggests that both of these common beliefs are badly flawed. Using 198 published meta-analyses, Tang and Liu demonstrate that the shape of a funnel plot is largely determined by the arbitrary choice of the method to construct the plot.<sup>2</sup> (33). When a different definition of precision and/or effect measure was used, the conclusion about the shape of the plot was altered in 37 (86%) of the 43 meta-analyses with an asymmetrical plot suggesting selection bias.

As stated before, Shang et al were not clear about the aim of their analysis. The methodology of comparing homeopathy with conventional trials matched on indication was suited for comparison of quality. Comparing of effects of subgroups was not allowed because the matching was lost in forming subgroups. *The only valid conclusion of this analysis that quality of homeopathy trials is better than of conventional trials, for all trials ( $p=0.03$ ), but also for smaller trials with  $n<100$  ( $p=0.003$ ).*

Another interesting finding by Shang et al was: "The eight trials of homeopathic remedies in acute infections of the upper respiratory tract that were included in our sample, the pooled effect indicated a substantial beneficial effect (odds ratio 0.36 [95% CI 0.26–0.50]) and there was neither convincing evidence of funnel-plot asymmetry nor

evidence that the effect differed between the trial classified as of higher reported quality and the remaining trials". In 1997 Linde stated that "homeopathy functioned not better than placebo in a specific disease". Thus the original hypothesis that homeopathy as a method is a placebo-effect was reformulated towards specific indications. This hypothesis corresponds with systematic conventional research. The advantage is less heterogeneity in the set of analysed trials, but it disregards the surplus value of homeopathy, see above (24). Compare this surplus value with psychotherapy and Post Traumatic Stress Disorder (PTSD) with symptoms like palpitations, flashbacks, headache and insomnia. Psychotherapy gets closer to the source of the disease than a combination of beta-blockers, painkillers and tranquillisers. It would make no sense to require RCT evidence that psychotherapy works better than beta-blockers. Likewise the same homeopathic medicine could cure headache, eczema and herpes lips in the same patient. The real problem with homeopathy was the implausibility. It makes no sense to prove that homeopathy is plausible for one indication, but not for another.

Nevertheless, there are a number of medical conditions with proof for homeopathy: It is also a solution to the problem of heterogeneity of medical conditions. 17 systematic reviews or meta-analyses focused on RCTs of homeopathy in 15 specific areas were performed: anxiety, childhood diarrhoea, chronic asthma, delayed-onset, muscle soreness, dementia, depression, headache and migraine, HIV/AIDS, induction of labour, influenza treatment and prevention, osteoarthritis, post-operative ileus, seasonal allergic rhinitis (hay fever) and vertigo.

This critical approach has been explained by Jonas, Kaptchuk and Linde in 2003 (26). The **level I of evidence** is reached for childhood diarrhoea and seasonal allergic rhinitis. Other meta-analysis showed this same level for allergic rhinitis (34), post-operative ileus (35), rheumatoid arthritis (36) and the protection to toxic substances (37).

**Level IIa of evidence** is obtained for asthma (38), fibrositis (39), influenza (40), muscular pain (41), otitis media (42), several pain sensations (43), side effects of radiotherapy (44), strains (45) and infections of the ear, nose and throat (46).

**Level IIb of evidence** is obtained in the treatment of anxiety (47), hyperactivity disorders (48)(49), irritable bowel (50), migraine (51), osteo-arthritis of the knee (52), premenstrual syndrome (53), pain associated with unwanted post partum lactation (54), prevention of nausea and vomiting during chemotherapy (55), septicaemia (56), post-tonsillectomy analgesia (57) and aphthous ulcers (57a).

The practical choice of a treatment for a specific patient is only little helped by the RCT results; they are obtained in "an ideal artificial situation" far from the personal context of the patient. The homeopathic diagnosis is more than a search to a disease; it is an approach including the whole person, with the aim of an individualized and global treatment. The method of evaluation has to be adapted to this reality; today Bayes' statistics authorize such research (see further).

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CHAPTER V

**The results of the 'ECHO' - study**

'ECHO' refers to surveys looking at Economic, Clinic and Humanistic Outcomes.

In the literature 21 publications, using validated scores concerning quality of live (QoL), are found to evaluate the efficacy of homeopathic medicines. 20.005 patients are included in the different studies. A **level IIIa of evidence** is obtained for all ECHO-studies, all diagnosis merged.

A first group of studies compares the QoL score before and after the treatment. The control group is the group itself before treatment. The improvements are statistically and clinically significant, all diagnoses merged. Some diagnoses were analysed especially: asthma in children, headache, cancer patients, anxiety and depression after stopping the estrogenic hormonal treatment because of breast cancer, allergies, general problems, intestinal disorders, anxiety disorder, depression and skin problems. These are also the most common diagnosis in general practice.

A second group uses an external control group treated with conventional medicine. The results of these studies show that the homeopathic treatment is just as efficient as the conventional medicine in general practice. Respiratory problems, diabetic polyneuropathy, chronic problems in the ear, nose and throat area, as for example sinusitis, are considered as well as problems during pregnancy.

A third group uses the score of quality of life during a controlled and randomised study. For vertigo homeopathy is just as efficient as conventional medicine. In a study on asthma, the quality of life at the start of the study is so high that no significant difference could be found.

EVIDENCE BASED HOMEOPATHY NOVEMBER 2009

Condition/Study	N	Design QoL	Test group	Control group	Results
<b>Adler et al. 2009.</b> (77b). Depression.	91	Double-blind, Randomized Non-inferiority Trial. MADR Scale	Homeopathy Q potencies	Fluoxetine	Similar response rate.
<b>Becker-Witt et al.</b> (69, 70)	2851	Prospective observational study. MOS SF-36	Homeopathy	-	Significant and relevant improvement of the SF-36
<b>Bordet et al.</b> (75) Menopausal hot flushes. 6 months	438	Prospective observational study. Multicentric (99 MD) Not validated double QoL score	Homeopathy	-	Significant and relevant improvement on both QoL scores (daytime / sleep)
<b>Dias-Brunini. 2002</b> (60) Asthma – pediatrics 6 months	51	Prospective observational study. AUQEI QoL score applied to children.	Homeopathy	-	QoL score from 42,27 to 54,94, significant statistical increase.
<b>Goossens &amp; al 2008</b> (76) Hay fever	74	Prospective observational non comparative study. RQLQ QoL	Homeopathy	-	Significant improvement after 3 and 4 weeks..
<b>Guthlin et al 2001</b> (64) All conditions <4 years	951	Prospective observational study. MOS SF-36	Homeopathy	-	Number of patients too small to find valid results.
<b>Guthlin et al 2003</b> (72) All conditions <4 years	750	Prospective observational study. MOS SF-36	Homeopathy	-	QoL improved in most dimensions highly significantly
<b>Jong et al 2006</b> (66) Respiratory and ear complaints 7-14-28 days, final results 2006.	2055	Prospective observational study. HSQ-12; HSQ-5	Homeopathy	Conventional	No significant differences in duration of illness, response to treatment, patient satisfaction and adverse effects.
<b>Heger et al 2001</b> (71) Respiratory and ear complaints 14-28 days	456	Prospective observational study. HSQ-12; HSQ-5	Homeopathy	Conventional	Homeopathy at least as effective as conventional medical care (64,3% ><56,6%). Adverse effects 7,8% versus 22.3%.
<b>Hochstrasse B. 1999</b> (68) pregnancy <9 months	205	Prospective observational comparative study. SEIQoL	Homeopathy	Conventional	Lower QoL in the homeopathic group (two different populations, comparisons impossible)
<b>Muscari-Tomaioli et al 2001</b> (65) Headache 6 months	53	Prospective observational study. MOS SF-36	Homeopathy	-	The mean and median scores of all QoL dimensions rose. Strongest results in the “bodily pain” and “vitality” parameters p<0.0001

EVIDENCE BASED HOMEOPATHY NOVEMBER 2009

<b>Pomposelli 2009</b> (77) Diabetic polyneuropathy	61	Prospective observational study	Homeopathy	Conventional	Improvement of QoL and Cost saving 17,5%
<b>Spence et al 2005</b> (74) Wide range of chronic conditions	6544	Prospective observational study	Homeopathy	-	Positive health changes in routine homeopathic hospital practice
<b>Strosser et al 2000</b> (67) Vertigo 6 weeks	119	Double blind Comparative study. MOS SF-36	Homeopathy (Vertigoheel)	Conventional (Betahistin)	Significant amelioration of the physical and mental health with homeopathy. Equivalent efficacy of the two groups.
<b>Thompson et al 2002</b> (61) Cancer 5 consultations later	52	Prospective observational study. EORTC QLQ-30 QoL score	Homeopathy	-	Improvement in 75% of the patients.
<b>Thompson et al 2003</b> (58) Symptoms of oestrogen withdrawal in women – breast cancer.	40	Prospective observational study.	Homeopathy	-	Significant improvements in anxiety, depression and QoL.
<b>Waise-Priven et al 2009</b> (77a) Dermatology.	49	Prospective observational study. DQLI + HR-QoL score	Homeopathy	-	Positive dermatological and QoL outcomes.
<b>Wassenhoven et al 2003</b> (63) All conditions 6 months	1025	Prospective observational study. MOS SF-36 & DUKE QoL scores	Homeopathy	-	QoL score differences : Allergic cond. +7,987; Gen. health problems +10,198; Bowels +8,189; Muscles-bones +0,764; Stress, anxiety, sadness +6,041; Nose, ears +4,677; skin +6,395. Small but significant statistical improvement.
<b>Weber et al 2002</b> (62) Acute sinusitis	63	Non-randomised, controlled clinical trial. HCG-5 QoL score	Homeopathy + herbal ther.	Conventional therapy	Equally effective (or ineffective)
<b>White et al 2003</b> (59) Asthma – pediatrics / 12 months	96	Randomised placebo controlled trial using QoL subscale of the Childhood Asthma Questionnaire	Homeopathy adjunct to conventional treatment	Placebo adjunct to conventional treatment	No statistically significant changes in the QoL score, small severity improvement. NB: very high initial QoL score
<b>Witt et al 2005</b> (73) All conditions 3,12 and 24 months	3981	Prospective multicentre cohort study. QoL score	Homeopathy	-	Marked and sustained improvements.

## EVIDENCE BASED HOMEOPATHY NOVEMBER 2009

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Studies about *Cost-Efficiency* of the treatment are mostly requested by the authorities, a **level IIIa of evidence** is obtained for all analysed aspects.

The reason for this interest is multiple. The cost of the conventional medicine is more and more a problem for certain patients. The survival of our social security systems is threatened by these enormous costs.

The available data (15 studies – 9.938 patients) show that a reduction of the total cost for the patient is possible maintaining a global efficacy when using homeopathy.

Again a first group of studies compares the same cohort of patients before and after the study. The control group is the group itself before treatment. The monetary savings achieved by practising homeopathy are statistically and clinically significant for all diagnoses merged. Some diagnoses are especially analysed such as otitis media, atopic eczema and allergies, rheumatoid arthritis and anxiety disorders.

A second group uses an external control group treated this time with a conventional treatment. The results of these studies confirm that homeopathic treatment in general practice allows savings under all conditions. Some data were especially analysed such as the seasonal allergic rhinitis, asthma, atopic eczema, food related allergies, chronic allergic rhinitis, anxiety disorders and acute rhino-pharyngitis.

### **General conclusions of this literature review**

Besides the general analysis and conclusions about the effects of homeopathy, efficacy has been proved using as RCT evaluation as well rather than QoL scores for the allergies under all their aspects. The prevalence of these problems is growing in the world population. For authorities this is also a very big problem; it is the cause of absenteeism. An important social cost is linked to these problems. Homeopathy can be a cheap and efficient solution.

EVIDENCE BASED HOMEOPATHY NOVEMBER 2009

Condition/Study	N	Design Economic Survey	Test group	Control group	Results
<b>Becker-Witt et al 2003</b> (78) Different chronic conditions	493	Prospective, comparative cohort study	Homeopathy and patients could opt for concomitant conventional therapy	Patients could opt for conventional therapy	Patients seeking homeopathic treatment had a better outcome overall compared with patients on conventional treatment.
<b>Chaufferin 2000</b> (87)		Compilation of nationally available data (secondary sources)	Homeopathy	-	Homeopathic medication prices per unit lower than allopathic ones (number of prescriptions unknown, though). Fewer reimbursements for homeopathic doctors, only 1 % of reimbursement of French national health insurance system
<b>Frei et al 2001</b> (79) Acute otitis media	230	Prospective, uncontrolled interventional study	Homeopathy	-	72% resolved within 12 hours, 28% were given antibiotics. Conventional treatment was 14% more expensive (109 SFR vs. 94,6 SFR)
<b>Frenkel et al 2002</b> (80) Atopic and allergic disorders	48	Prospective, uncontrolled interventional study	Homeopathy primarily in addition to conventional treatment	-	Before intervention on average 3.1 different conventional drugs/patient after 1.6 (p=0.001). Before intervention 31 used conventional drugs (costs on average \$40) after intervention 35 (costs on average \$16).
<b>Güthlin et al 2003</b> (81) Different chronic conditions	750	Prospective, uncontrolled observational study	Homeopathy	-	Significant changes in quality of life, less sick leave.

EVIDENCE BASED HOMEOPATHY NOVEMBER 2009

Condition/Study	N	Design Economic Survey	Test group	Control group	Results
<b>Haselen et al 1999 (86)</b> Rheumatoid arthritis	89 (random sample out of 427)	Retrospective study	Homeopathy (n=89) Acupuncture (n=4)	-	32% of patients reduced conventional drugs. Total costs to treat 89 patients were 7129 GBP (including medication, staff time and diagnostic procedures - 29% of the costs for consultation, 22% for conventional drugs)
<b>Jain 2003 (88)</b> Reduced costs by homeopathic drug prescription	109	Prospective uncontrolled observational study	Homeopathy	-	Savings by homeopathic treatment calculated by deducting costs for homeopathic medication from conventional medication (hypothetical) for same diagnosis and same duration amounted to 60.40 Pound Sterling.
<b>Rossi et al. 2009 (91)</b> Respiratory Diseases	105	Retrospective observational study	Homeopathy	Conventional	Reducing conventional remedies use, 42,4% costs saved even 71,1% in chronic asthma.
<b>Schafer et al. 2002 (82)</b> Hay fever, asthma, atopic eczema, food hypersensitivity		Population-based nested case control study	Alternative Medicine	No alternative medicine	26.5% used CAM, patients were significantly younger and better educated. CAM mostly provided by MDs, median costs for single and entire treatment of 4 and 205 euro. CAM User scored efficacy of conventional therapy lower than non user (p<0,001)

Condition/Study	N	Design Economic Survey	Test group	Control group	Results
<b>Sevar. 2005</b> (92) All conditions	455	Prospective cohort study.	Homeopathy	-	Conventional Drug cost saving of £39,90/patient/year.
<b>Taïeb et al. 2003</b> (90) Chronic allergic rhinitis.	300	Prospective, comparative cohort study	Homeopathy (HM)	Conventional treatment (CM)	At 3 months SF-12 score on physical dimension HM 51,8; CM 47,9 (p<0.05). Lowering of cost of care for patients from 45,74€ for CM to 27€ for HM. Lowering of cost of care for the social security system with 50% for patients using HM.
<b>Trichard et al 2003</b> (83) Anxiety disorders	394	Prospective, comparative cohort study	Homeopathy	Conventional treatment	The homeopathic drug strategy produced equivalent results but less overall costs reimbursed by the national health system
<b>Trichard et al 2003</b> (84) Acute Rhinopharyngitis	499	Prospective, comparative cohort study	Homeopathy	Conventional Therapy (antibiotics)	Comparable overall cost between both treatment strategies but less sick leave in the homeopathic group
<b>Trichard et al. 2003</b> (85)	5549	Cross-sectional descriptive survey	Homeopathy	-	Only costs for medication included – average overall cost 6.78 € of which 3.78 € were reimbursed
<b>Wassenhoven et al 2004</b> (89) All conditions.	782	Observational unselected study and comparison with nationally available data (secondary sources)	Homeopathy	-	Following homeopathic treatment there were significant reductions in consultations with other specialists and generalists, and in the cost of treatment. €370 compared with €287 The largest cost savings were made by patients with the worst ratings of their physical condition prior to seeking homeopathic treatment.
<b>Witt et al. (93)</b> Atopic eczema	135	Prospect., comparative cohort study	Homeopathy	Conventional treatment	Comparable efficacy but fewer costs for the homeopathic group.

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CHAPTER VI

**Internal evidence - Heuristic**

Homeopathy is a medical practice aiming at strengthening the natural homeostasis of the body and stimulating the immune system. Homeopathy acts following the similarity principle; that means that the symptoms are treated with a medicine containing a substance causing similar symptoms in a healthy person. For example onion can be the cause of a watery discharge of the nose and eyes. A medicine prepared from onion, namely *Allium Cepa*, can treat patients who have these symptoms during a coryza or allergic rhinitis accompanied by irritating discharge from the nose.

The law of similars has to be respected during clinical and fundamental studies. Already 20 years ago a new paradigm allowing explanation of the homeopathic effects was developed. It is the paradigm of the « *Body signifiers* » (94). It explains why the law of similars has to be respected in research protocols on homeopathy; the tested medicine must be significant for the research subject (cell, plant, animal or human). A databank of experiments on homeopathy is regularly updated and available (95) today.

**A. Pure experimentations or provings.**

Homeopathic medicine is the result of the experimentation initiated by Hahnemann. This physician wanted to understand the effect of the prescribed medicines and that is the reason why he first experimented with these medicines on himself, and later on, other volunteers.

These experiments on “healthy” volunteers has never ceased for two centuries.

The medicine is taken by a volunteer for at least two consecutive days. The symptoms, developed by the volunteer after taking the medicine, are observed and noted very carefully. Afterwards all these symptoms are converted into repertorial language (integrated into existing rubrics or creation of a new rubric). The quality of each collected symptom is more important than the quantity of symptoms. Each proving result (symptom linked to a homeopathic medicine) has to be confirmed by other experiments and, later on, in the clinical practice. These experiments are standardized now and are realised on a regular basis with placebo control (96).

As such, each symptom of the *Materia Medica* can be described with a certain level of evidence. The higher the level of evidence for the symptom linked to a medicine, the more the medicine used has a chance to cure the patient; that means the more this medicine can influence the organism to which it is administered.

(94) Bastide M. & Lagache A. *Revue Intern. Systémique*, 1995;9 :237-249 + *Altern Ther Health Med*. 1997;3:35-9

(95) Van Wijk R, Albrecht H. Proving and therapeutic experiments in the HomBRex basic homeopathy research database. *Homeopathy*. 2007;96:252-257.

(96) Dominici G, Bellavite P, di Stanislao C, Gulia P, Pitari G. Double-blind, placebo-controlled homeopathic pathogenetic trials: Symptom collection and analysis. *Homeopathy*. 2006;95:123-130.

The more “significant” symptoms the patient has in common with the medicine, the more spectacular and complete will be the effect of the medicine. This is the globality principle in homeopathy.

A pure experimentation (proving) can be compared with a qualitative experiment, phase I, in conventional medicine. A position paper on this issue is available on [www.homeopathyeurope.org](http://www.homeopathyeurope.org). The homeopathic pharmacopoeia contains several thousands of different medicines; for each medicine many modalities (97) of symptoms exist and are encoded in our homeopathic repertories.

The analysis of the provings’ publications authorizes a **level of evidence IIb** for this experimental step (98). An audit of all English provings’ publications done from 1945 to 1995 was published (99) in 1998 and other publications are in preparation. In future it will be possible to reach **level of evidence I** for these experiments.

At each LMHI congress new provings (or confirmation of earlier provings) are presented. In May 2008 the following provings were presented (see proceedings):

**Hydrogenium peroxidatum** – H<sub>2</sub>O<sub>2</sub>. Dominici G. Double-blind, randomized, placebo controlled design; 16 provers revealing several symptoms clinically verified on human and animals.

**Latrodectus Mactans Tredecimguttatus**. AFADH – Fayeton S. Open design; 8 provers revealing groups of symptoms clinically verified.

**Potentilla Anserina**. Janssen JP. Multi-centric, prospective, double-blind design; 10 provers revealing 27 groups of symptoms.

Plutonium’s Peaceful Brother: **Neptunium muriaticum**. Lustig D. Placebo-controlled design; 19 provers revealing 315 symptoms distributed into 12 groups of characteristic symptoms.

Brazilian Pathogeneses: **Helleborus Niger**. Marim M. Third confirmation, multicentric international design; 4 groups of symptoms are regularly recorded.

**Sutherlandia Frutescens**. Ross A, Webster H, van der Hulst N. Double-blind, placebo-controlled design; 24 provers revealing 15 symptoms correlated with the traditional use of the plant (restorative tonic in HIV patients).

**Erythrina Lysistemon** (African Coral Tree). Ross A, de Beer E. Triple-blind, placebo-controlled design; 32 provers revealing 25 symptoms.

**Lobelia Cardinalis**. Scheepers L. Open design; 7 provers revealing 32 symptoms.

**Galium Aparine**. Scheepers L. Open design; 8 provers revealing 18 groups of symptoms.

**Ytterbium Nitricum**. Vicol M, Cristescu LM, Ivanciu NV, Dobre ML, Sumbasacu M, Oprea AM, Goiceanu DM, Dragusanu O, Binder-Hampel A, Stanciu AM, Struza CM. Open design; 13 provers revealing 32 symptoms.

**Hecla Lava**. Multicentric international design.

Recent interesting development about the best design is considering also: Double-blind, symmetrical, three arms, placebo controlled design (Möllinger H.).

(97) The modality of a symptoms permits the differentiation between two medicines.

(98) Walach H & all. Homeopathic proving symptoms: result of a local, non-local, or placebo process? A blinded, placebo-controlled pilot study. *Homeopathy* 2004 n°93, 179-185.

(99) Dantas F, Fisher P. A systematic review of homeopathic pathogenetic trials published in the United Kingdom from 1945 to 1995. In: *Ernst E, Hahn EG. Homeopathy – A critical appraisal* 1998. Butterworth-Heinemann, United Kingdom.

**Proving: Publications in International journals 2008**

**Argemone mexicana.** Dey NR, Das KC, Rai Y. Multi-centric double-blind design, 38 provers (6C, 30C, 200C). *Indian Journal of Research in Homeopathy*. January-March 2008;Vol2,n°1:13-18.

**Cephalandra Indica.** Dey NR, Das KC, Rai Y. Multi-centric double-blind design, 17 provers (6c, 30c, 200c). *Indian Journal of Research in Homeopathy*. April-June 2008;Vol2,n°2:20-24.

**Ficus religiosa.** Dey NR, Das KC, Rai Y, Siddiqui VA, Singh R. Multi-centric double blind homeopathic pathogenetic trial. *Indian Journal of Research in Homeopathy*. July-September 2008;Vol2,n°3:10-14.

**Paraffin.** Rajpal, Siddiqui VS, Dey NR, Das KC, Rai Y, Singh VK. Multi-centric double-blind design, 43 provers (6C, 30C, 200C). *Indian Journal of Research in Homeopathy*. October-December 2008;Vol2,n°4:20-25.

**Proving: Publications in International journals 2009**

**Potos foetidus.** Shaw R, Vikram Singh, Siddiqui VA, Rajpal, Vinay Singh Kr, Hari Singh, Mal PC, Bhakat AK. A multicentric double blind Homeopathic Pathogenetic Trial (6C, 30C, 200C). *Indian Journal of Research in Homeopathy*. January-March 2009;Vol3,n°1:18-22.

**Aconitum napellus.** Piltan D, Rist L, Simões-Wüst P, Saller R. Test of a homeopathic dilution of Aconitum napellus. A clinical, randomized, double-blind, controlled crossover study in healthy volunteers. Proving shows significant distinction between Aconitum C30 and placebo. *Forschende Komplementärmedizin*, 2009; 16:168-73.

**B. Clinical verification of the homeopathic symptoms.**

Symptoms obtained by pure experimentation must be confirmed by clinical results; the clinical validity of every symptom linked to a homeopathic medicine, as well as the totality of the symptoms (global picture of the medicine) must be verified. Traditionally experts in homeopathy were references for this clinical verification of homeopathic symptoms; this is **level of evidence IV**. Expert advice is very common in medicine, as example, the “ideal” value for the cholesterol in adults is actually, according to experts, 1,9g/l; it is the same level of evidence (UCL 2007).

The homeopathic Medical Doctor today uses computers in daily practice allowing a new approach for the clinical verification of homeopathic symptoms using a new type of statistical analysis.

Two statistical techniques are possible in case of retrospective analysis:

\* Either considering only indisputable results of prescriptions, failures or spectacular positive results. The analysis consists of looking at a possible link between this result and the selected symptoms of the patients used for the choice of the medicine. This method approximates the traditional analyses of experts. The results (100) make a strong connection between the results obtained by pure experimentation and the clinical efficacy of the prescription. At the end of this process, a table of the characteristic symptoms (or groups of symptoms) forming the picture of a homeopathic medicine can be established and verified. See a published example (101) in the references.

\* Or applying the theorem of Bayes on the same clinical database. Here all values are expressed as prevalence and compared to the remainder of the population (Likelihood ratio LR or probability factor as a link between the symptom of a medicine and the obtained clinical results). This method can be applied on a retrospective (102) as well as on a prospective design (103, 104, 105).

Thanks these statistical results, a **level of evidence IIIb** is reached and we hope that other groups will participate to reach **level of evidence IIIa** in the near future. The clinical verification of homeopathic symptoms is an internal validation of the basic principles of homeopathy and results can be used for improving the daily practice very soon.

(100) Van Wassenhoven M. Towards an evidence-based repertory: clinical evaluation of Veratrum Album. *Homeopathy* 2004;93, 71-77. First line medicine – Clinical verification – Verification of homeopathic symptoms ISBN

(101) CCRH. Damiana – A Multicentric Clinical Verification Study. *Indian Journal of Research in Homeopathy* 2007 vol 1 n°1,17-23

(102) Van Wassenhoven M. XIX GIRI meeting “A Universal approach to health: the intelligent body” – Retrospective LR study. 2-4 December 2005 Monaco. [www.giriweb.com](http://www.giriweb.com)

(103) Stolper CF, Rutten ALB, Lugten RFG, Barthels RJWM. Improving homeopathic prescribing by applying epidemiological techniques: the role of LR. *Homeopathy* 2002;91, 230-238. & Rutten ALB et al. Repertory and the symptom loquacity: some results from a pilot study on LR. *Homeopathy* 2004; 93, 190-192. & Rutten ALB et al. LR onderzoek: uitkomsten September 2005. *Similia Similibus Curentur* 2005; 35:4, 9-12.

(104) Rutten ALB. How can we change beliefs? A Bayesian perspective. *Homeopathy*. 2008;97:214-219.

(105) Rutten ALB, Stopler CF, Lugten RFG, Barthels RWJM. Statistical analysis of six repertory rubrics after prospective assessment applying Bayes’ theorem. *Homeopathy*. 2009;98:26-34.

Table of recent publications of clinical verification of homeopathic symptoms.

Condition/Study	N	Design	N Sympt	N Rem	Results
Van Wassenhoven. (100). (2005)	2148	LR retrospective	>230	100	Symptoms – Similarity - Globality
CCRH (101) Damiana (2007)	3032	Trad. Method	?	1	Symptoms
Rutten & all (106) (2008)	4094	LR Prospective	6	75	Similarity
Araujo (*). Anacardium orientale (2008)	5	Trad. Method	?	1	16 groups of symptoms - Similarity (constitution)
Gnaiger & all (*) (107) Petroleum (2008)	25	Trad. Method	?	1	6 groups of symptoms - Similarity (constitution)
Dominici (*) Hydrogenium peroxidatum (2008)	18	Trad. Method	10	1	Symptoms of proving – Similarity
AFADH (*) Latrodictus Tredicim Guttatus (2008)	4	Trad. Method	?	1	24 groups of symptoms - Similarity (constitution)
AFADH (*) Tarentula Lycosa (2008)	5	Trad. Method	?	1	36 groups of symptoms - Similarity (constitution)
Louis (*) Borax (2008)	12	Trad. Method	?	1	6 groups of symptoms - Similarity (constitution)
Lustig (*) Neptunium muriaticum (2008)	2	Trad. Method	?	1	1 groups of symptoms - Similarity (constitution)
Marim & all (*) (2008)	5	Trad. Method	?	4	5 groups of symptoms - Similarity (constitution)
Petrucci (*) Falcon Peregrinus Disciplinatus (2008)	8	Trad. Method	8	1	Symptoms of proving – Similarity
Pla (*) Salix Fragilis (2008)	2	Trad. Method	95	1	7 groups of symptoms - Similarity (constitution)

(106) Rutten ALB, Stolper CF, Lugten RFG, Barthels RWJM. New repertory, new considerations. *Homeopathy* 2008;97:16-21.

(107) Gnaiger – Rathmanmer J, Schneider A, Loader B, Böhler M, Frass M, Singer SR, Oberbaum M. Petroleum a serie of 25 Cases. *Homeopathy* 2008; 97:83-88.

(\*) Proceedings of 63<sup>rd</sup> LMHI congress 2008 (Belgium)

Condition/Study	N	Design	N Sympt	N Rem	Results
Scheepers & all (*) (2008)	37	Trad. Method	38	6	Symptoms + 13 groups of symptoms - Similarity (constitution)
Servais & all (*) Petroleum (2008)	11	Trad. Method	220	1	Symptoms
Stolper & all (*) (2008)	26	Trad. Method	23	2	Symptoms of proving – Similarity
Uytenhove (*) Cheirantus cheiri (2008)	300	Trad. Method	6	1	Symptoms of proving – Similarity
Uytenhove & all (*) Hecla Lava (2008)	262	Trad. Method	?	1	Symptoms of proving – Similarity
Chakraborty & all (108) Blatta orientalis (2008)	6184	Trad. Method	80	1	Symptoms
Chakraborty & all (109) Amoorah rohituka (2008)	4706	Trad. Method	89	1	Symptoms
Chakraborty & all (110) Mentha piperita (2008)	6372	Trad. Method	105	1	Symptoms
Chakraborty & all (111) Ferrum picricum (2008)	3465	Trad. Method	70	1	Symptoms
Chakraborty & all (111 b) Fagopyrum esculentum (2009)	6675	Trad. Method	95	1	

(\*) Proceedings of 63<sup>rd</sup> LMHI congress 2008 (Belgium)

(108) Chakraborty PS & all. Clinical verification of Blatta orientalis. *Indian Journal of Research in Homeopathy*. April-June 2008; Vol 2 n°2:25-30.

(109) Chakraborty PS & all. Clinical verification of Amoorah rohituka. *Indian Journal of Research in Homeopathy*. January-March 2008; Vol 2 n°1:19-25.

(110) Chakraborty PS & all. Clinical verification of Mentha piperita. *Indian Journal of Research in Homeopathy*. October-December 2008; Vol 2 n°4:26-33.

(111) Chakraborty PS & all. Clinical verification of Ferrum picricum. *Indian Journal of Research in Homeopathy*. July-September 2008; Vol 2 n°3:15-21.

(111 b) Chakraborty & all. A multicentric Clinical Verification Study conducted by CCRH. *Indian Journal of Research in Homeopathy*. January-March 2009; Vol 3 n°1:23-33.

Total: **37.398 patients** are included in recent systematic clinical verification of homeopathic symptoms. This number will increase very rapidly with the creation of an international Databank of clinical case in Italy. (Cli-Fi-Col project).

**Conclusions on internal evidence:**

Taking the obtained and verified results into account, homeopathy can be confirmed as a validated medical method. Of course more research is necessary and welcome but the obtained level of evidence justifies the maintenance and development of homeopathy in the framework of medicine.

CHAPTER VII**The homeopathic medicine has a specific activity.**

The nature of the homeopathic medicinal products is, for some, a factor of resistance (see Chapter I) even if the **level of evidence** for the efficacy of homeopathy within the general practice is already high as we have seen. In fact, 75% of the homeopathic prescriptions are molecular concentrations and as such would not be questioned by the molecular paradigm. Demonstrating an effect of the highest homeopathic dilutions-dynamisations is a confirmation that there is more than the molecular paradigm; there is place for other paradigms that could be applied for radiations, psychoanalysis, acupunctural stimulations, high diluted-dynamized homeopathic preparations, etc.

Actually, the proof of the action of the highest dilutions-dynamisations has reached **level of evidence IIa** and even **level of evidence I** for some.

Several professors at university investigated all the published literature about this subject at the request of the ECH (European Committee for Homeopathy) (112). New references are added for the period 2005-2009.

A/ The cheapest experimental model, easy to realise and reproduce, is probably “*the acetylcholine induced contraction of rat ileum*”. This is a validated scientific model (Chang FY, Lee SD et al. Rat gastrointestinal motor responses mediated via activation of neurokinin receptors. *J. Gastroenterol Hepatol* 1999;14 ,39-45). This model was applied first to homeopathic preparations by A. Cristea, a Rumanian researcher, using this model for the verification of very high dilutions of Belladonna. The results were published. (*Bastide M (ed). Signals and Images. Kluwer Academic Publishers 1997 ;161-170*).

Professor Wolfgang SüB of the Institute of Pharmacy of the University of Leipzig used this model to test the transition of a homeopathic medicine (in this case, Atropinum sulfuricum D60) from the original liquid form to tablets. As usually several controls were done. The monohydrate  $\alpha$ -lactose tablets impregnated with a high dilution of Atropinum show a systematic efficacy opposite the anhydrous  $\alpha$ -lactose tablets. This means that the quality of the tablets can be tested now before the pharmaceutical commercialisation (constant reproducibility). This very simple model shows that the activity of the high diluted homeopathic medicines is beyond all doubt. (Schmidt F, SüB WG, Nieber K. In-vitro Testung von homöopathischen Verdünnungen. *Biol. Med./Heft 1/February 2004 ;32-37*).

B/ It took some time before another scientific model could be accepted by the scientific community. The first publication was done in 1991, but it was only in 2004 that the results were accepted for publication by “Inflammation Research”, a peer reviewed scientific journal. This model is different to that of Benveniste; he used the same control but not the same activator.

(112) Priorities and methods for developing the evidence profile of homeopathy: Recommendations of the ECH GENERAL ASSEMBLY – XVIII Symposium of GIRI. *Homeopathy 2005;94:107-124*.

Professors Marcel Roberfroid and Jean Cumps of the « University of Louvain », department of Pharmacy, and respectively coordinator of a multi-centric European survey (4 laboratories) and responsible for the statistical analysis, wrote the protocols of this study that showed a clear inhibition of the degranulation of the human basophils by high dilutions of **histamine** ( $10^{-30}$  –  $10^{-38}$  M). This inhibition becomes evident by the coloration of alcian blue. This multi-centric study is confirmed afterwards in three laboratories by using flux cytometry and in one laboratories using freed histamine. These observations are irrefutable acknowledged the editor of “Inflammation Research”. (Belon P, Cumps J, Ennis M, Mannaioni PF, Roberfroid M, Sainte-Laudy J, Wiegant FAC. Histamine dilutions modulate basophil activation. *Inflamm. Res.* 2004 ;53 ;181-188), (Sainte-Laudy J, Belon P. Improvement of flow cytometric analysis of basophil activation inhibition by high histamine dilutions. A novel basophil specific marker: CD 203c. *Homeopathy.* 2005;95:3-8), (Sainte-Laudy J, Belon P. Use of four different flow cytometric protocols for the analysis of human basophil activation. Application to the study of the biological activity of high dilutions of histamine. *Inflamm. Res.* 2006;55:S23-S24). These results are now confirmed again by replication in others independent research centers (Chirumbolo S, Brizzi M, Ortolani R, Vella A, Bellavite P. Inhibition of CD203c membrane up-regulation in human basophils by high dilutions of histamine: a controlled replication study. *Inflamm. Res.* 2009, April).

C/ Since the fifties, research on high dilutions exists; quality and number of publications increased the last decennium. Critical studies and meta-analyses were done but were often denied or even ignored (see *COST B4 supplement report EUR 19110 ISBN 92-828-7434-6*). This research was never supported or even advised by the academic authorities.

Describing the most important surveys published in international journals, Professor Jean Cambar, dean of the faculty of pharmacy of Bordeaux, confirms the effects of high diluted homeopathic preparations. As example he quoted : The efficacy of very high dilutions of human and animal natural molecules (also called *endogenous molecules*), this was published several times in peer reviewed journals: *Int J Immunotherapy* 1987 ;3 :191-200 (**Thymulin** in mice, Bastide M.), *Int J Immunopharm* 1990 ;6 :211-214 ( $\alpha/\beta$  interferon, Carriere V.), *J Vet & Human Toxicol* 1995 ;37(3) :259-260/ *Homeopathy* 2008;97:3-9 (**Thyroxine**, Endler PC.), *Int J Immunopathol and Pharmacol* 1996 ;9 :43-51 (**Bursin**, Youbicier-Simo BL.). The efficacy of very high dilutions, using pharmacological models, is published also in peer reviewed journals: *Pathophysiol Haemost Thromb* 2005;34:29-34 (Platelet aggregation in portal hypertension and its modification by ultra-low doses of aspirin, Eizayaga FX); *Thrombosis res* 2000;100:317-323 (Time related neutralization of two doses acetyl salicylic acid, Aguejof O.); *Thrombosis res* 1998;90:215-221 (Combination of two doses of acetyl salicylic acid: experimental study of arterial thrombosis, Belougne-Malfatti E.); *Thrombosis res* 2000;99:595-602 (Effects of acetyl salicylic acid therapy on an experimental thrombosis induced by laser beam, Aguejof O.); *Thrombosis res* 1998;89:123-127 (Thromboembolic complications several days after a single-dose administration of aspirin, Aguejof O.); *Thrombosis Res* 1994;76 :225-229 (Acetyl salicylic acid in a vessel model, Doutremepuich C.); *Haemostasis* 1993;23 :8-12 (Effect af aspirin on

embolization in an arterial model of laser-induced thrombus formation, Vesvres M.H.); *Thrombosis res* 1992;65:33-43 (In vitro platelets/endothelial cells interactions in presence of acetylsalicylic acid at various dosages, Lalanne M.C.); *Haemostasis* 1990;20 :99-105 (Acetyl salicylic acid in healthy volunteers, Doutremepuich C.); *Thrombosis Res* 1987 ;48 :501-504 (Acetylsalicylic acid in healthy volunteers, Doutremepuich C). The oldest used model, the subject of several international publications is the *toxicologic* model (Arsenic, Phosphorus, Mercury, Cadmium, Cis-platina, Glutamate, Sulphate, Copper sulphate, etc...). It can be applied on plant and animal material, on cell cultures and even in clinical studies. This model is still used and is even the subject of cooperation between the Universities of Bern and Bologna, testing homeopathic treatments prepared from arsenic trioxide on plants. The germination of seeds and the length of the stems on the 7<sup>th</sup> day, are the analyzed variables. This group, under leading of Dr Lucietta Betti, department DISTA of agro-environmental Science and Technology, University of Bologna, published 6 recent experiments.

A systematic review of the in vitro evidence of high homeopathic potencies was published in 2007 (113). The conclusions are that even experiments with a high methodological standard could demonstrate an effect of high potencies. No positive result was stable enough to be reproduced by all investigators. Among those that have been replicated by independent investigators the action of mercuric bichloride on hydrolases and especially the action of histamine of the Anti-IgE triggered basophile granulocyte degranulation seemed to be the best reproducible (see above).

**The professors concluded : these experiments are conducted in controlled circumstances, with a sufficient amount of plants, animals or cells and with a statistically valid treatment. *These facts are indisputable, statistically significant and, for some, reproducible, even if it is not possible to explain the obtained results with the molecular***

(113) Witt CM et al. The in vitro evidence for an effect of high homeopathic potencies – A systematic review of the literature. *Complement Ther Med.*2007;YCTIM-886:11 pages.

Several audits of these publications are available and justify a **level of evidence I** (113-114-115). 75 publications were evaluated by a German team, 105 articles were analysed in a second audit examining the protecting effect against toxic substances (isopathic model). 70% of these publications are of unquestionable quality and show the positive effect of the homeopathic medicines used. In a third audit, 76 of the 162 analysed studies were classified as “best quality”, the effects are meaningful and reproducible.

Other examples, new results since 2005:

(116) Alecu & al. Effect of the homeopathic remedy Arnica Montana 7CH on mechanical trauma in mice. *Cultura Homeopathica*. 2007;20:16-18.

(117) Alecu & al. Effect of the homeopathic remedies Arnica Montana and Staphysagria on the time of healing of surgical wounds. *Cultura Homeopathica*. 2007;20:19-21.

(118) Dos Santos AL, Perazzo FF, Cardoso LGV, Carvalho JCT. In vivo study of the anti-inflammatory effect of Rhus Toxicodendron. *Homeopathy*. 2007;96:95-101.

**2008 - 63<sup>rd</sup> LMHI congress' proceedings:**

Costa BGB, Siqueira CM, Barbosa GM, Portela MB, Soares RMA, Holandino C. Development of a new biotherapeutic of Candida Albicans to the treatment of oral candidiasis using yeast cells cultures, placebo and Nystatin® controlled design./

Siqueira CM, Costa B, Amorim AM, Conzálvez M, Veiga VF, Lyrio C, Couceiro JN, Holandino C. Looking for a new biotherapeutic prepared from infectious influenza virus: an in vitro study. Virus H3N2, MDCK cells cultures, antiviral activity.

(119) Bresler A, Hawkins D, Razlog R, Abrahamse H. Effect of Low Level Laser Therapy and Calendula officinalis 3CH on Wound Healing in Human Skin Fibroblasts. *Indian Journal of Research in Homeopathy*. April-June 2008; Vol 2, n°2:7-15.

(120) Almeida LR, Campos MCO, Herrera HM, Bonamin LV, Fonseca AH. Effects of homeopathy in mice experimentally infected with Trypanosoma cruzi. *Homeopathy*. 2008;97:65-69.

(121) Almeida JD, Arisawa EAL, Balducci I, Rocha RF, Carvalho YD. Homeopathic treatment for bone regeneration: experimental study on rats. *Homeopathy*. 2009;98:92-96.

(114) Linde K, Jonas WB, Worke DMF, Wagner H, Eifel F. Critical review and meta-analysis of serial agitated dilutions in experimental toxicology. *Human Exp Toxicol* 1994;13:481-492.

(115) COST (Co-operation in Science and Technology) is a framework for scientific and technical co-operation, allowing co-ordination of nationally funded research on a European Union level. COST-B4 relates especially to co-operation of research activities on the medical, cultural, psychological, legislative and economic aspects on non-conventional medicine. Supplement of report 1999 *EUR 19110 ISBN 92-828-7434-6*.

## **Physics of homeopathic medicines**

### **Introduction by Prof. Louis Rey**

(Abstract of a seminar in Rome 20-21 of October 2009: Ethique et Spiritualité de la Santé – Médecines traditionnelles et complémentaires. Recherches et orientations nouvelles)

A redundant issue in the assessment of homeopathy by classical academics, especially in the field of so-called “hard sciences”, is the fact that, in high and ultra-high dilutions, there are no more traces of any original chemical. Hence, they claim that these different solutions are, indeed, all the same and no more than the mere solvent itself. This radical assumption proved to be wrong, at least in the light of several centuries of careful clinical observations, which did show to the evidence, that high dilutions were not only active in therapeutics but that they had also distinct personalities, both properties which could not be found in the solvent used for their preparation. Quite obviously, this problem has been a definite challenge for all researchers in physics, chemistry and material sciences.

### **Different physical methods to assess high dilutions**

#### **A/ Nuclear Magnetic Resonance (RMN) by Izel Botha**

This paper seeks to perform a meta-analysis of the findings of these studies and to draw a conclusion on the nature of homeopathic dilutions as well as the validity of performing this type of inquiry into the nature of homeopathically prepared medicines.

From the studies presented, two conclusions can be drawn, the first dealing with the evolution of the thinking processes associated with the studies that needed to be conducted. In the initial studies, conducted by Ross<sup>136</sup> and Power<sup>137</sup>, investigated the nature of Q potencies. These researchers acknowledged that the theories as to the molecular organisation in solutions existed, but they refrained from conclusively interpreting the results in terms of those theories. Their research led to Cason<sup>138</sup> investigating the influence of the frequency of the NMR spectrometer on results obtained. Davies<sup>139</sup> and Malan<sup>140</sup> investigated the role of dilution on the physico-chemical structure of the homeopathic solutions, showing that information storage does take place in the solution, but that different dilution methods result in different solutions, even when the theoretical dilution level is equal. Malan's<sup>126</sup> mention of dilution level and succussion

<sup>136</sup> Ross, A. H. A. (1997). An evaluation of Hahnemannian quinquagenimillesimal potencies using nuclear magnetic resonance spectroscopy. Department of Homeopathy. Durban, Technikon Natal. **Master's Degree in Technology: Homeopathy: 71.**

<sup>137</sup> Power, S. M. (1999). An appraisal of Homeopathic Quinquagenimillesimal Potencies of *Plumbum metallicum* and *Stannum metallicum* by means of Nuclear Magnetic Resonance Spectroscopy. Department of Homeopathy. Durban, Technikon Natal. **Master's Degree in Technology: Homeopathy: 72.**

<sup>138</sup> Cason, A. (2002). A comparison of the 80MHz, 200MHz and 500MHz Nuclear Magnetic Resonance Spectra of Homeopathic Sulphur 30CH. Department of Homeopathy. Durban, Technikon Natal. **Master's Degree in Technology: Homeopathy: 79.**

<sup>139</sup> Davies, T. M. (2001). A comparison of Hahnemannian and Korsakovian potentising methods using Nuclear Magnetic Resonance Spectroscopy. Department of Homeopathy. Durban, Technikon Natal. **Master's Degree in Technology: Homeopathy: 103.**

<sup>140</sup> Malan, J. F. (2002). A comparison of Centesimal and Decimal Hahnemannian potencies using Nuclear Magnetic Resonance Spectroscopy. Department of Homeopathy. Durban, Durban Institute of Technology. **Master's Degree in Technology: Homeopathy: 91.**

opened the door for investigation of the effect of various potentiation methods. Hofmeyr<sup>141</sup>, Lyell<sup>142</sup> and Botha<sup>143</sup> each investigated different variables that may be introduced during the manufacturing process, particularly looking at the number of succussions and the effect of trituration. Erasmus<sup>144</sup> took this one step further by investigating the mechanics of the succession process. These researchers interpreted their results based on the theories of Resch and Gutmann<sup>145</sup> and Anagnostatos<sup>146</sup>. This body of knowledge has inspired Allsopp<sup>147</sup> to look into the effect of energy transfer into the solution – whether it is imperative that the energy is imprinted mechanically by hand production of the remedies, or if it can equally be achieved through electromagnetic means. In comparing the studies, it is evident that both trituration and serial dilution changes the physico-chemical properties of the solvent to produce distinct medicines.

**Conclusions:** The meta-analysis supports the conclusion that different potentiation methods result in medicines with different physico-chemical properties. One can also conclude that NMR Spectroscopy is a valuable tool in assessing the physico-chemical effect that potentiation methods have on the lactose and water/ethanol bases utilised in the manufacture of homeopathic medicines. It works well to study a single compound and is not adapted to the investigation of a complex mix of different substances. NMR may be used for low potencies and only with the best available instrument. Other references, Weingärtner<sup>148</sup>, Williams<sup>149</sup>, Barnard<sup>150</sup>, Young<sup>151</sup>, Sach<sup>152</sup>, Bol<sup>153</sup>, Aabel<sup>154</sup>, Milgrom<sup>155</sup>, Anagnostatos<sup>156</sup>, Bellavite<sup>157</sup>, Smith<sup>158</sup>, Antonchenko<sup>159</sup>, Shaw<sup>160</sup>.

<sup>141</sup> Hofmeyr, D. (2004). A Nuclear Magnetic Resonance study of potencies of Natrum muriaticum 15CH prepared by trituration and succussion versus Natrum muriaticum 15CH prepared by succussion alone. Department of Homeopathy. Durban, Durban Institute of Technology. **Master's Degree in Technology: Homeopathy: 57.**

<sup>142</sup> Lyell, D. (2004). An NMR study of the effect of succussion on parallel potencies of Natrum muriaticum. Department of Homeopathy. Durban, Durban Institute of Technology. **Master's Degree in Technology: Homeopathy: 51.**

<sup>143</sup> Botha, I. (2005). A comparative study of the nuclear magnetic resonance spectra of Kalium Bichromicum 12CH manufactured from 3CH and 4CH triturations respectively. Department of Homeopathy. Durban, Durban University of Technology. **Master's Degree in Technology: Homeopathy: 58.**

<sup>144</sup> Erasmus, F. (2004). A comparative study of the NMR spectra of parallel potencies of Pulsatilla pratensis, prepared according to Hahnemannian and Anthroposophical Extended Medicine methods respectively. Department of Homeopathy. Durban, Durban Institute of Technology. **Master's Degree in Technology: Homeopathy: 59.**

<sup>145</sup> Resch, G. and V. Gutmann (1987). Scientific Foundations of Homeopathy. Berg am Starnberger See, Germany, **Barthel & Barthel Publishing.**

<sup>146</sup> Anagnostatos, G. S., G. Vithoulkas, et al. (1991). "A working hypothesis for homeopathic microdiluted remedies." **Berlin J Res Homeopathy 1: 141.**

<sup>147</sup> Allsopp, C. (2009). A comparative study of Hahnemannian and Radionically prepared potencies of Natrum muriaticum using nuclear magnetic resonance spectroscopy. Department of Homeopathy. Durban, Durban University of Technology. **Master's Degree in Technology: Homeopathy.**

<sup>148</sup> Weingärtner, O. (1990). "NMR-features That Relate To Homeopathic Sulphur Potencies." **The Berlin Journal on Research in Homeopathy 1(1): 61-68.**

<sup>149</sup> Williams, D. A. R. (1986). Nuclear Magnetic Resonance Spectroscopy. **Chichester, John Wiley & Sons.**

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<sup>151</sup> Young, T. M. (1975). "NMR studies of succussed solutions: a preliminary report." **J Amer Inst Hom 68: 8-16.**

<sup>152</sup> Sachs, A. D. (1983). "Nuclear magnetic resonance spectroscopy of homeopathic remedies." **J Holistic Med 5: 172-177.**

<sup>153</sup> Bol, A. (1997). NMR Research in Homeopathy. **HomInt R&D Newsletter. 1/97.**

<sup>154</sup> Aabel, S., S. Fossheim, et al. (2001). "Nuclear magnetic resonance (NMR) studies of homeopathic solutions." **Br Homeopath J 90: 14-20.**

<sup>155</sup> Milgrom, R., K. R. King, et al. (2001). "On the investigation of homeopathic potencies using low resolution NMR T2 relaxation times: an experimental and critical survey of the work of Roland Conte *et al.*" **Br Homeopath J 90(1): 5-13.**

**B/ A new Magnetic Resonance method by K. Lenger**

The “homeopathic information” in high homeopathic potencies on sugar globule could be considered as photons with frequencies in the MHz-region by scientific evidence. These photons in high homeopathic potencies were detected by two magnetic resonance-methods<sup>161, 162</sup>: firstly by the modified photomultiplier-method<sup>147</sup> and secondly by the Tesla-coil method<sup>148</sup>. Both methods allowed determination of physical properties of these photons: holistic, coherent quantum behavior, damping of the magnetic field by resonance effect, at least two resonance frequencies in the MHz-region, frequency spectra after being excited by one of their characteristic resonance frequencies, measurability of the degree of potencies by separation of the photons from their carrier substances alcohol or sucrose by increasing the electromagnetic fields of their resonance frequencies. A device for measuring the degree of the potencies and their resonance frequencies must be developed for quality control of them in future. Further investigations about the stability of the remedies in different media: water, alcohol, sugar, are necessary. A physical model must be developed in which way matter substance can be converted into energy, into photons by succussion in alcoholic dilutions and in triturations. For a patient, the pathological pathways<sup>163, 164</sup> can be regulated by this treatment.

**C/UV – Visible spectrometry**

A promising approach was reached when the dilutions were studied near the upper limit of their ultra-violet absorption spectrum (200 to 400 nm). Rao, Roy, Bell and Hoover<sup>165</sup> got some interesting recordings for ultra-molecular solutions of 3 different products selected in totally different kingdom (Natrium muriaticum, Pulsatilla, Lachesis) and were able to discriminate them at the 30C level. Similar results were equally obtained by Pollack and Wexler working on Havit, Apis mellifica and Histaminum. This method, however, proved to be highly sensitive to rather unforeseen parameters, like the time of the day. Reproducibility has not yet been possible.

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<sup>157</sup> Bellavite, P. and A. Signorini (2002). *The Emerging Science of Homeopathy: Complexity, Biodynamics, and Nanopharmacology*. Berkeley, USA, **North Atlantic Books.**

<sup>158</sup> Smith, C. W. and S. Best (1989). *Electromagnetic Man*. London, J.M. **Dent and Sons Ltd.**

<sup>159</sup> Antonchenko, V. and V. Ilyin (1992). "Points at issue in the physics of water and homeopathy." **Br Homeopath J 81(2): 91-93.**

<sup>160</sup> Shaw, D. (1976). *Fourier Transform Spectroscopy*. Amsterdam, **Elsevier Scientific Publishing Company.**

<sup>161</sup> K. Lenger, R.P. Bajpai, & M. Drexel, Delayed luminescence of high homeopathic potencies on sugar globuli, **Homeopathy 97,3 (2008), pp. 134-140**

<sup>162</sup> K. Lenger, Homeopathic potencies identified by a new magnetic resonance method, **Subtle Energies and Energy Medicine 15,3, (2006), pp. 225-243.**

<sup>163</sup> K. Lenger, R.P. Bajpai, M. Drexel, M. Spielmann & J. Ambrusch, Principal mode of action and properties of homeopathic potencies identified as photons. **63rd LMHI-World-Congress 20-24 May, 2008, Oostende, Belgium**

<sup>164</sup> K. Lenger, A physical and biochemical model of homeopathic function applied to patients with different diseases. **Subtle Energies & Energy Medicine in press 2009**

<sup>165</sup> Rao ML, Roy R, Bell IR and Hoover R. The defining role of structure (including epitaxy) in the plausibility of homeopathy. **Homeopathy 2007; Vol 96, Issue 3:175-182.**

**D/ Raman spectroscopy**

Different attempts have been done to see whether a close investigation of the Raman shift could help discriminating the dilutions between themselves. Once more the operating conditions proved to be determinant: the position of the tube, recording done in a dark room and the same instrument. Under those conditions Rao<sup>148</sup> could demonstrate that the spectral peaks corresponding to different potencies of the same strain or dilutions of the same potency from different sources are different. Even if those differences are small, they look reproducible.

**E/ Dynamic Electrophotonic Capture: Gaz Discharge Visualization – EPC/GDV**

The introduction of the so-called EPC/GDV technique in the research on high dilutions is a somewhat accidental and unforecastable event. It results from the pioneering work of Konstantin Korotkov who developed a completely new process to analyse “the energu fields” on multiple targets thanks to the analysis of the electrophotonic glow stimulated by a train of controlled pulses of a high-tension electromagnetic field, a technique based upon the Kirlian effect. Applied to ultra-molecular dilutions by Iris Bell<sup>166</sup>, very small drops of liquid (0,02cc) gave successive glow images under electric discharge, which could be further processed thanks to the elaborative software of K. Korotkov. The triple analysis of their fractality (shape), size and brightness did show different patterns which, under well selected conditions, could be species-specific, and Iris Bell discovered that a high dilution of Natrium muriaticum had definitely a different overall dinger-print than its original solvent (ethanol in that particular case). It is most likely that this innovative technique might open perspectives in dilution research.

**F/ Calorimetric and Electric Measurements**

In a completely different field, Elia and al<sup>167</sup> were able to show that when a high dilution was mixed with an acid or a base, the heat release was much more important than it should be for a standard reference. He claimed that this was due to the fact that, in the case of high dilutions, an excess of energy was basically needed to “rupture” intrinsic structures (so-called dissipative structures) resulting to their preparation.

Similar discrepancies were also observed by Elia<sup>168</sup> when he measured the electric conductivity of high dilutions, an observation which was shared by Zacharias<sup>169</sup> and his group in Brazil when they compared succused high dilutions of Vincristine sulfate an inert solvent.

<sup>166</sup> Bell IR, Lewis DA, Brooks AJ, Lewis SE and Schwartz G. Gas Discharge Visualization Evaluation of Ultramolecular Doses of Homeopathic Medicines under Blinded, Controlled Conditions. *J. Altern. And Compl. Med.* 2003; Vol 9 n°1:25-38.

<sup>167</sup> Elia V, Niccoli M. New physico-chemical properties of Extremely diluted aqueous solutions. *Journal of Thermal Analysis and Calorimetry*, 2004; 75:815-836.

<sup>168</sup> Elia V, Elia L, Cacace P, Napoli E, Niccoli M, Savarese F. Extremely diluted solutions as multi-variable systems. A study of calorimetric and conductometric behaviour as function of the parameter time. *Journal of Thermal Analysis and Calorimetry*. 2006;84:317:323.

<sup>169</sup> Holandino C, Harduim R, Feo da Veiga V, Garcia S, Zacharias CR. Modeling Physical-Chemical Properties of High Dilutions: an electrical conductivity study. *Int J High Dilution Res.* 2008; 7(25):165-173.

Another interesting approach in the field of electric measurements is opened by the use of Impedance spectroscopy. In that particular technique the behavior of a dilution is assessed as a dielectric medium in low frequencies and some preliminary research (Monod – Cemagref) did show that the loss angle (Tg delta) and the dielectric constant are substantially different from one dilution to its original solvent.

**G/ Thermoluminescence (abstract Prof. Louis Rey)<sup>170171</sup>**

Low-temperature thermoluminescence is a very sensitive investigation tool and, for instance, could discriminate very easily different highly diluted alumina colloids which could not be distinguished by classical chemical analysis. On that base this method was used to study inter alia, potassium dichromate, sodium chloride and lithium chloride preparations made in D<sub>2</sub>O. For potassium dichromate, the experiments carried out with Ilse Muchitsch and Michael Frass showed very clearly that their “finger prints” were totally different from the one of the heavy water alone even in dilutions above Avogadro number.

**Conclusions:**

This rapid survey of investigations performed on ultra-molecular dilutions by different physical methods confirms that it is now well proven that even beyond Avogadro number they are, indeed, totally different from their pure solvent and also specific to the precise chemicals dissolved at the initial state of their preparation. Each dilution has its own personality and can be identified by its own “finger-print”. Complex fluids carry much more information than could be expected and this provides a strong, positive background to homeopathy.

To explain the clinical facts even in very high dilutions and potentisations (remember that only 25% of the daily delivery of homeopathic medicines in a pharmacy - 75% being at molecular level), another scientific paradigm is needed. For many years another scientific paradigm exists, the paradigm of *body signifiers*<sup>172</sup>. As such a scientific frame exists and the nature of the homeopathic medicine begins to be understood and even identified.

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<sup>170</sup> Rey L. Thermoluminescence of ultra-high dilutions of lithium chloride and sodium chloride. **Physica A: Statistical Mechanics and its Applications** 2003;Vol 323:67-74

<sup>171</sup> Rey L. Can low-temperature thermoluminescence cast light on the nature of ultra-high dilutions? *Homeopathy*. 2007;96:170-174.

<sup>172</sup> Bastide M. et Lagache A, *Revue Intern. Systémique*, 1995 ;9 :237-249 and *Altern Ther Health Med*. 1997 ;3 :35-9.

CHAPTER VIII

**Homeopathy in veterinary practice**

The advantages of the analysis of results in veterinary practice are various. The environment where animals are living can be considered as stable and very similar for all the animals considered. Studies on large animal cohorts are easier to realise than for human. A double-blind design is easier to be obtained. Placebo effects are minimize.

Of course the number of surveys is still few, but for two diagnoses, sufficient studies are published and reproduced; a **“level of evidence I”** could be obtained very soon.

These two considered diagnoses are infertility in cows (159, 160, 161) and mastitis in cows (162, 163). These two problems have important consequences for public health; antibiotics (normally prescribed for mastitis) can be found, as residues, in the food chain. Therefore, the milk produced must be destroyed; the economic consequences for the sector are very important. Moreover, homeopathic treatment is the only one authorized by the European authorities in the framework of biological breeding.

Other results are coming from another farming activity: chickens are very sensitive to stress, when stressed, they are picking each other resulting in important losses in the production (164). The same happens for turkeys, they are very sensitive to haematomas caused by shocks during transportation. This problem can be reduced with 30% with homeopathic treatment. The problem of regulation of sexual hormones of sows in farms (165) is important for the farmer and for the cost in pig production; homeopathy can offer a solution without “ethical” problem or risks for the consumers.

This type of research will be extended in the coming years.

(159) Aslan S, Findik M, Kalender H, Celebi M, Izkür H, Handler J (2000). Verbesserung der postpartalen Fertilität von Kühen durch Pulsatilla miniplex (Improvement of cows by Pulsatilla miniplex). *Wiener Tierärztliche Monatsschrift* **87**:359-362.

(160) Sekular PS, Dakshinder NP, Sarode DB, Rode AM, Kothedar MD (2000). Evaluation of homeopathic drugs in hypogalactia of cows. *Indian Veterinary Journal* **77**:813-814.

(161) Williamson AV, Mackie WL, Crawford WJ, Rennie B (1991). A study using Sepia 200c given prophylactically postpartum to prevent anoestrus problems in dairy cows. *British Homeopathic Journal*, **80**:149-156.

(162) Searcy R, Reyes O, Guajardo G (1995). Control of subclinical bovine mastitis. Utilization of a homeopathic combination. *British Homeopathic Journal* **84**:67-70.

(163) Varshney JP, Naresh R (2005). Comparative efficacy of homeopathic and allopathic systems of medicine in the management of clinical mastitis of Indian dairy cows. *Homeopathy*, **94**:81-85.

(164) Filliat C. Particularité de l'utilisation de l'homéopathie en production avicole. *Annals of the “Entretiens Internationaux de Monaco 2002”*, 5-6 October 2002. <http://www.giriweb.com>.

(165) Riaucourt A. L'Exemple de la Filière Porcine. *Annals of the “Entretiens Internationaux de Monaco 2002”*, 5-6 October, 2002. <http://www.giriweb.com>.

Examples of recent (2006-2009) veterinary homeopathic publications:

- (166) Chaudhuri S, Varshney JP. Clinical management of babesiosis in dogs with homeopathic *Crotalus horridus* 200C versus allopathy. *Homeopathy*. 2007;96:90-94.
- (167) Varshney JP. Clinical management of idiopathic epilepsy in dogs with homeopathic *Belladonna* 200 C: A case series. *Homeopathy*. 2007;46-48.
- (168) Lira-Salazar G, Marines-Montiel E, Torres-Monzon J, Hernandez-Hernandez F, Salas-Benito JS. Effects of homeopathic medications *Eupatorium perfoliatum* and *Arsenicum album* on parasitemia of *Plasmodium berghei*-infected mice (Malaria). *Homeopathy*. 2006;95:223-228.
- (169) Rajkumar R, Srivastava SK, Yadav MC, Varshney VP, Varshney JP, Kumar H. Effect of a Homeopathic complex on oestrus induction and hormonal profile in anoestrus cows. *Homeopathy*. 2006;95:131-135.
- (170) Berchieri A, Turco WCP, Paiva JB, Oliviera GH, Sterzo EV. Evaluation of isopathic treatment of *Salmonella enteritidis* in poultry. *Homeopathy*. 2006;95:94-97.
- Aboutboul R. Snake remedies and eosinophilic granuloma complex in cats. *Homeopathy*. 2006;95:15-19.

**(2008 – 63<sup>rd</sup> LMHI congress' proceedings)**

- Magnani P, Conforti A, Bellavite P. Effects of homeopathic drugs on the anxiety-like behaviour in mice. Blind design, Diazepam and placebo controlled./
- Boujedaini N. Action de *Gelsemium sempervirens* sur la synthèse d'allopregnanolone. Blind design versus placebo./
- Castilhos. Effect of the *Arnica Montana* 200CH followed by *Medicago Sativa* 6CH and *Calcarea Phosphorica* 6CH usage in the feed consumption and weight gains of goat weaned kids. Double-blind placebo controlled trial./
- Weber S, Endler PC, Welles SV, Suanjak-Traidl E, Scherer-Pongratz W, Frass M, Spranger H, Peithner G, Lothaller H. Thyroxine 30X, Electromagnetic field influence (microwave, mobile phone, x-ray) and highland frogs. Multi-centric, blinded controlled study on 2980 animals./
- Payen L. The effect of the homeopathic drug PVB® *Phytolac* in mastitis of cows. Preventive double-blind design on 187 cows./
- Issautier. Prevention of cold-intolerance in Guinea Fowl by homeopathic treatment and analysis of its effects. Single-blind study on 10.640 animals, homeopathy versus allopathy./
- Peychev L. Changes in rat's learning and memory after a long treatment with four homeopathic medicines. Placebo-controlled study on 130 animals./
- Sommer MA, Blaha T. Epidemiological investigations on the use of homeopathic remedies in swine under special consideration of the comparison of homeopathic and antimicrobial therapies. Open study including 36 sows./
- Zalla Neto R, Bonamin LV. Lymphoid response and granuloma development in mice inoculated with BCG and treated with Thymulin in homeopathic preparations.

- (171) Soto FRM & all. A randomized controlled trial of homeopathic treatment of weaned piglets in a commercial swine herd. *Homeopathy*. 2008;97:202-205.
- (172) Zacharias F & all. Effect of homeopathic medicines on helminth parasitism and resistance of *Haemonchus contortus* infected sheep. *Homeopathy*. 2008;97:145-151.

CHAPTER IX

**Questioning homeopathic medicines**

Considering the individualized patient's approach of Homeopathy, the scientific framework is much broader than could be expected. Homeopathic M.D. are mostly focused on research about individualization, similarity and globality. It does not exclude research on some diagnoses and a lot of indications are reaching a **IIIb level of evidence** and would be further considered for more research.

Examples from the **63<sup>rd</sup> LMHI congress on Evidence Based Homeopathy (2008)** including additions from publications after this congress and **64<sup>th</sup> LMHI congress**:

**Agro-Homeopathy :**

Tichavsky R. Perspectives of Agro-homeopathy and overview of results. Proceedings 64<sup>th</sup> LMHI congress.

**Allergology:**

Flitchev S, Nestorov I, Groudev D, Ivanov M. Les possibilités de l'homéopathie dans la prévention et dans le traitement de l'**asthme** chez des enfants atopiques. Etude prospective incluant 64 enfants.

Jurj G. Homeopathic treatment of **atopic dermatitis** in children. Prospective study on 35 patients.

Kekata M, Villano G, Ben Salah-Mezghanni S, Pellegrini A, Hayouni A, Mtiraoui A. **Asthme allergique** et thérapeutique homéopathique. Prospective study on 6 patients.

Macri F. Medical audit of paediatric patients with **allergic disorders**. Comparison study of two groups, 52 patients treated with allopathy, 50 patients treated with homeopathy.

Marijnen P, Fayard AL. Hypericum perforatum et **Lucite estivale** bénigne: de l'observation vétérinaire à l'indication thérapeutique. Preventive, prospective, multi-centric study on 105 patients.

Popowski P. **Dermatite atopique** et recherche clinique en médecine ambulatoire. Retrospective study on 27 patients.

Vander Brempt X, Cumps J, Capiieux E. Efficacité clinique de 2LALERG dans le **rhume des foins**. Double-blind placebo controlled study on 41 patients.

**Dentistry :**

Camacho C, Lozano S, Melo M, Pedraza C, Vanegas S, Benitez G, Palencia R, Revelo I. Effectiveness of homeopathic medicine Arnica 7CH versus Naproxen® on **post operative extraction of third molar** including pain relief (15 patients).

Clercq JM, Capiieux E, Jenaer M. Micro-immunotherapy applied to **paradental diseases**. Follow-up of 20 patients.

Jussara Diffini SM. **Oral health** of 6 to 14 year-old children treated with allopathy and homeopathy. Comparison study on 599 children.

Jussara Diffini S.M. Evaluation and comparison of **salivary conditions** of children with respiratory problems treated with allopathic and homeopathic medications. Comparison study on 90 patients.

Tiba H, Contin I, Itagaki C, Wierzchon LM, Fachada AP, Feighelstein GM. Application of the homeopathy in patients of TMD (**Temporo Mandibular Disorders**) and Orofacial Pain. Follow-up of 50 patients.

#### **Geriatric:**

Teut M, Lüdtke R, Willich SN, Witt CM. Homeopathic treatment of elderly patients – A prospective observational study with 2 years follow-up of 83 patients. Proceedings 64<sup>th</sup> LMHI congress.

#### **Gynecology:**

Berrebi A, Parant O, Ferval F, Thene M, Ayoubi JM, Connan L, Belon P. Traitement de la douleur de la **montée laiteuse**, non-souhaitée, par homéopathie dans le post-partum immédiat. *J. Gynecol Obstet Biol Reprod* 2001 ;30 :353-557.

Chiche JL. Actea Racemosa 30CH dans la **dystocie cervicale** pendant l'accouchement. Etude sur 24 parturiantes.

Dungler T, Colas A. Sanguinaria Canadensis 7CH in the treatment of **flushes**. Study including 87 patients.

Honneger F, Lavalley V, Aguerre C, Cresp C, Desmonty-Minjon ML, Doussin-Dirks A, Ducos-Klingebiel S, Leblanc-Lebarazer A. **Mycoses vaginales récidivantes** et traitement homéopathique: un travail prospectif sur 13 patients.

Masson JL, Colas A. Prise en charge homéopathique des **bouffées de chaleur chez la femme ménopausée**. Prospective, multi-centric study on 438 patients. *Homeopathy* 2008 ;97(1) :10-15.

Roca M. Treatment of **Prolactinoma** with homeopathy. Follow-up of 16 patients.

Shangloo GK. Evidence Based Medicine – Homeopathic cure to **uterine fibroid and ovarian cyst**. Follow-up of 123 patients.

Shukla P. Evidence Based Study on **breast lumps** and homeopathic management. Follow-up of 480 patients.

Cardigno P. Homeopathy for the treatment of menstrual irregularities: a case series. *Homeopathy*. 2009;98:97-106.

#### **Hormonology :**

Grelle L.C.E. Homeopathic treatment of subclinical **hypothyroidism**. Prospective follow-up of 5 patients.

Baroli A. Micro-immunotherapy applied to auto immune thyroid pathologies: clinical cases of **chronic thyroiditis**. Follow-up of two patients.

#### **Infectiology:**

Arjoun H, Demonceaux A, Monastiri K. Les **bronchiolites du nourrisson** et l'homéopathie. Etude comparative allopathie-homéopathie sur 40 cas.

Bahloul H, Musial E, Mahfoudh A. Traitement homéopathique de la **varicelle** de l'enfant. Etude comparative de l'évolution de 16 enfants et la littérature.

Derbel, Belkadhi M, Villamo G, Mtiraoui A. **Rhinopharyngites** à répétition chez l'enfant, prise en charge en homéopathie. Etude prospective de 25 cas.

Fayard AL. Traitement de l'**irritation oculaire** par un collyre homéopathique associant Euphrasia, Calendula et Magnesia Carbonica (Homeoptic®). Placebo controlled study on 31 patients.

Rusev DS, Petrova G. Sulfur iodatum – Subsidiary homeopathic medicine on **infectious diseases** of children. Follow-up of 24 children with long lasting fever of unknown origine.

**Neurology:**

Adler UC, Paiva NMP, Cesar AT, Adler MS, Molina A, Padula AE, Calil HM. Individualized homeopathic medicines versus fluoxetine for the acute treatment of adults with **depression**: double-blind randomized non inferiority trial on 59 patients.

Bolognani F, Mendes F, Kede J, Mendes P. Homeopathy and **muscular dystrophy** (Duchene, Becker, Limb Girdle, Steiner). Study on 242 patients.

Bolognani F, Mendes M, Mendes A, Kede J, Maia A. Relation between plumbum metallicum and **Progressive Spinal Amiotrophy** in Brasil. Study on 44 patients.

Bolognani F, Mendes D, Martins S, Maia A, Serpa C, Damasceno A, Fonseca G, Teixeira M, Durao F. **Attention Deficit Hyperactivity Disorder** in relation with Zincum metallicum. Study on 33 patients.

Damaceno AMG, Bolognani F, Xavier MF, Mendes AP, Serpa C. Homeopathic therapy on a study of **Infantile Cerebral Palsy**. 9 years follow-up of 275 patients.

Fonseca GR, Bolognani F, Durao F, Souza K, Acioly M, Bagarollo M. Study of homeopathic medication effects on cognitive and motor performance in **autistic children**. Follow-up of 7 children with a comparison group of 23 children.

Kivellos S, Papatriantafyllou J, Papilas K, Karagerogiou K, Vithoulkas G. Practicing classical homeopathy in a headache clinic of a major public hospital in Athens, Greece. Four years experience treating **migraine** patients. Follow-up of 36 patients.

Maia AP, Bolognani F, Mendes F, Fonseca G. The effect of homeopathic treatment in controlling **aggressiveness** in patients with cerebral palsy. 9 years follow-up in 57 patients.

Martins S, Bolognani F, Maia AP, Fraga CS, Mendes M. **Choreo Athetosis** condition and homeopathy. Follow-up of 75 patients.

Mateescu RA. **Attention Deficit Hyperactivity Disorder** in children and homeopathic treatment. Follow-up of 15 children.

Mendes MFX, Carillo Jr R, Gosik MS, Bolognani FA. **Parkinson's disease** and homeopathic therapy (serotoninum). Follow-up of 4 patients.

Naghiu NR. Homeopathic treatment and family input in treatment of **autism**. Prospective study on 118 patients.

Serpa C, Bolognani F, Martins S, Mendes F, Maia AP, Fonseca G. Influence of homeopathic drug on **cognition** of patients with cerebral palsy. Follow-up of 275 patients.

Teixeira MIM, Bolognani F. **Spastic condition** and Homeopathy. Retrospective study on 54 patients.

Roberfroid M, Cumps J, Henry MF, Jenaer M. Micro-immunothérapie et traitement de la **sclérose en plaque**: résultats d'une évaluation clinique de 59 patients.

**Oncology:**

Pevenage S. Expériences pratiques vétérinaires en oncologie en utilisant 2LC1 en association avec les traitements conventionnels. Follow-up de 15 cas.

Schlappack O. Homeopathic treatment of radiation-induced itching in breast cancer patients. A prospective observational study. *Homeopathy*. 2004;93:210-215.

**Pediatric:**

Kruse S, Abendroth K, Schetzek S, Dorcsi-Ulrich M. Complementary homeopathic therapy in the neonatological intensive care unit as observed in 25 patients presenting intracerebral hemorrhage third degree. Proceedings 64<sup>th</sup> LMHI congress.

Kruse S, Abendroth K, Schetzek S, Dorcsi-Ulrich M. Complementary homeopathy in pediatric oncology. Proceedings 64<sup>th</sup> LMHI congress.

**Pharmacology :**

Goyens M. Rules of Good Practice in Pharmacy.

Hendrickx J. Internal Quality Standards and Methods for Homeopathic Medicinal Preparations in Pharmacies.

Mouyart MA. A list of first safe dilutions, a tool for all.

Sollie P. Availability and accessibility of raw materials and stocks. Problems in the daily pharmaceutical practice.

**Rheumatology :**

Relton C, Smith C, Raw J, Walters C, Adebajo AO, Thomas KJ, Young TA. Healthcare provided by a homeopath as an adjunct to usual care for Fibromyalgia (FMS): results of a pilot RCT. *Homeopathy*. 2009;98:77-82.

**Traumatology – Toxicology :**

Khuda-Bukhsh A.R. Can homeopathy ameliorate sufferings of **arsenic victims** ? A simplistic approach in management of a menacing rural health problem in India (contaminated ground water). Placebo-controlled double-blind study on 225 patients.

Dobrev K. La place de l'homéopathie dans la préparation **préanesthésique et dans la période postopératoire** précoce dans département d'anesthésiologie et de soins intensifs de l'Hôpital Universitaire de Stara Zagora en Bulgarie.

Jansen JP, Bol JGB, Andringa HH. Use of homeopathy in the treatment of **post-traumatic stress disorder**. Review of results in three homeopathic practices in Groningen. Retrospective study of 23 patients.

**This list is not exhaustive. A lot of cases series are regularly published in all area of medicine. Topics are various and linked to the main questions in medicine. The risk for a pandemic influenza is a real concern of medicine at this time, you could see in chapter VII that homeopathic basic research on this topic is already published and on going, clinical studies are ready to start (preventive and curative).**

CHAPTER X

**Homeopathy and epidemic diseases:**

**History**

Although its efficacy has clearly been demonstrated in the treatment of individuals suffering from acute or chronic diseases, a historical review shows homeopathy's greatest asset appears to be in the treatment of epidemic diseases. There are impressive examples of such broader applications of homeopathy in the 19<sup>th</sup> and 20<sup>th</sup> centuries.

The founder of homeopathy, Dr. S. Hahnemann, already developed the methodology of how to treat epidemic diseases with homeopathy. This approach he called the genus epidemicus, meaning that a treatment protocol of an epidemic disease is designed based on the collected signs and symptoms of a large group of patients. This is opposed to the treatment of non-epidemic diseases where for each different patient an individual remedy is selected based on the unique expression of the disease in the individual. In giving an historical overview on the use of homeopathy in epidemic diseases Bedayn<sup>173</sup> writes:

"The curative results of the genus epidemicus were so positive during the epidemics in the ensuing decades that they not only cured the majority of those affected where nothing else had worked, but they also drew international acclaim towards homeopathy, the new, the rational, medicine. There is something intrinsically powerful about the success of homeopathy in curing large populations that is undeniably attractive to anyone gifted with the power of observation, and it was through these early cures with epidemics that Hahnemann was able to quickly and widely spread the word: Homeopathy."

Using the genus epidemicus principle, homeopaths impressed the medical establishment with their results. Here are a few quotes to illustrate this:

- *General:* "In epidemics the mortality per 100 patients is 1/2 to 1/8 in homeopathic hospitals (a century ago there were several homeopathic hospitals in the US) compared to allopathic hospitals." (Bradford, 1900)<sup>174</sup>
- *General:* "Homeopathy had become very popular in North America during its early years due to its amazing successes obtained by the 'old guard' during the epidemics - epidemics of diphtheria, scarlet fever, cholera, malaria, yellow fever." (From its Roots Upwards, Interview with *André Saine*, N.D., D.H.A.N.P., Vienna January 1994)<sup>175</sup>

<sup>173</sup> Bedayn, Greg, 'As If One Patient', *The American Homeopath* 1998

<sup>174</sup> Dr. Thomas L. Bradford's 'The Logic of Figures ...' (1900)

<sup>175</sup> Saine, André, 'From its Roots Upwards', Interview with André Saine, N.D., D.H.A.N.P., Vienna January 1994

- *General*: "Ever since Samuel Hahnemann homeopathy has time and again been able to successfully treat epidemics/pandemics with a small number of remedies." (Stahl, Hadulla, Richter, 2006)<sup>176</sup>
- *Cholera*: "In Russia in the years 1830 and 1831 homeopathy was used to treat 1270 cholera patients in the provinces Saratoff, Tambtoff and Twer: 1162 of those were cured, 108 died... similar rates in the results of homeopathic treatment for cholera were observed in Hungary, Mähren and Vienna." (Gebhardt, 1929)<sup>177</sup>
- *Cholera*: "When in the year 1854 cholera came to Palermo 1513 soldiers fell ill ... Of these 902 were treated with allopathy of which 386 died, a bit more than 42%; 611 were treated with homeopathy, of which only 25, so almost 4%, died. In the abovementioned years cholera also visited the Caribbean, and on the 'pearl' of these islands, Barbados, 2113 people fell ill. Of the 346 treated with allopathy 154 died, but of the 1767 treated with homeopathy only 370." (Gebhardt, 1929)<sup>177</sup>
- *Cholera*: "3% of the cholera patients under homeopathic treatment died (Cincinnati USA 1849). Mortality rate of cholera patients under allopathic treatment was 40-70%." (Humphreys 1849)<sup>178</sup>
- *Spanish influenza*: "Perhaps the most recent use of homeopathy in a major epidemic was during the Influenza Pandemic of 1918. The Journal of the American Institute for Homeopathy, May, 1921, had a long article about the use of homeopathy in the flu epidemic. Dr. T A McCann, from Dayton, Ohio reported that 24,000 cases of flu treated allopathically had a mortality rate of 28.2% while 26,000 cases of flu treated homeopathically had a mortality rate of 1.05%. This last figure was supported by Dean W.A. Pearson of Philadelphia (Hahnemann College) who collected 26,795 cases of flu treated with homeopathy with the above result." (Winston 2006)<sup>179</sup>
- *Spanish influenza*: "Homeopathy has been used with great degree of success in influenza and other epidemics for 200 years ... In 1918 flu pandemic homeopaths reported around 1% mortality in their cases, while conventional doctors were losing 30% of their patients." [ [www.lifemedical.us/flu](http://www.lifemedical.us/flu) ] NB: The Spanish influenza virus we know now was an avian virus. Approximately 40 million people died in just 18 months.

<sup>176</sup> Stahl E., Hadulla M.M., Richter E., Homöopatische Behandlung der Influenza – Vogelgrippe, Allgemeine Homöopatische Zeitung, 2006

<sup>177</sup> Gebhardt, A. v., *Handbuch der Homöopathie*, Leipzig, Germany 1929

<sup>178</sup> Humphreys, F., *Cholera and its homoeopathic treatment*, New York: William Radde Publisher, 1849.

<sup>179</sup> Winston, J., *Some history of the treatment of epidemics with Homeopathy* by Julian Winston, 2006, [www.whale.to/v/winston.html](http://www.whale.to/v/winston.html)

- *Spanish influenza*: "Dean W.A. Pearson of Philadelphia collected 26,795 cases of influenza treated by homeopathic physicians with a mortality of 1.05%, while the average old school mortality was 30%. Explanation: conventional treatment of folks with flu caused at least 8038 deaths while the homeopaths lost only 281 patients. That is a statistically significant difference."  
"Thirty physicians in Connecticut responded to my request for data. They reported 6,602 cases with 55 deaths, which is less than 1%. In the transport service (during WWI) I had 81 cases on the way over. All recovered and were landed. Every man received homeopathic treatment. One ship (using conventional therapy) lost 31 on the way. H.A. Roberts, MD, Derby, Connecticut." [Explanation: a number of homeopathic physicians served in the Armed Forces during WW1 and made use of their homeopathic training. (Dearborn, 1923)<sup>180</sup>; (Dewey, 1921)<sup>181</sup>
- *Spanish influenza*: "The most severe epidemic of all time was the Great Influenza Pandemic of 1918. Twenty percent of the entire world population was infected and 20-40 million people died. The epidemic was so devastating that the average lifespan in the United States was decreased by ten years. During this epidemic homeopathic medicines were used widely both for treatment and as prophylaxis. The average mortality under standard treatment ran from 2.5-10%, while 1% or fewer patients died under homeopathic treatment." (Hoover, 2006)<sup>182</sup>
- *Yellow Fever in USA*: "Homeopathy had become very popular in North America during its early years due to its amazing successes obtained by the "old guard" during the epidemics - epidemics of diphtheria, scarlet fever, cholera, malaria, yellow fever - especially yellow fever; the death rate for that was 55% when allopathic treatment was used, but less than 5% in cases with homeopathic treatment; and it was the same for cholera. It is here with the 'old guard' that homeopathy obtained its golden letters." ('From its Roots Upwards', Interview with André Saine, ND, DHANP, Vienna, January 1994.)<sup>175</sup>

These are clearly impressive figures, certainly if we compare them with the results of contemporary regular treatment. Considering the advances made in conventional medicine in the past century the question arises though whether homeopathy should still play a role in treating epidemic diseases.

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<sup>180</sup> Dearborn, Frederick M. MD, *American Homeopathy in the World War*; 1923

<sup>181</sup> Dewey, W.A., *Homeopathy in Influenza- A Chorus of Fifty in Harmony*, *Journal of the American Institute of Homeopathy* in 1921

<sup>182</sup> Hoover, Todd A., *Homeopathic prophylaxis*, *The American Homeopath*, October 2006

## Homeopathy and Epidemic Diseases Today

Homeopathy and conventional medicine were equally well accepted by the public towards the end of the 1800s. Conventional medical doctors in the US lobbied the government in the early 1900s and legislation was passed giving them the exclusive right to diagnose and treat medical conditions. With the US taking the lead in the world, homeopathy went into a decline. Homeopathic hospitals were closed. The light of homeopathy was kept alive by smaller number of homeopaths, but many lost track of what is called Hahnemannian homeopathy and as a science little progress was made. This changed in the last decades of the 20<sup>th</sup> century. Homeopathy flourished again and especially in the treatment of chronic diseases great advances were made.

If we look at homeopathy today, the use of the genus epidemicus approach for epidemic diseases is marginal. In part, this is because epidemic diseases like those mentioned above hardly play a role anymore in the West. Homeopaths that went to developing countries to help those for whom often no medical care is available at all were strongly confronted with epidemic diseases. They once again started to treat epidemic diseases and experienced how successful homeopathy still is for these conditions.

## Why Homeopathy Should Play a Role in Treating Epidemics

Homeopathy does not stand in the way of effective treatment for patients but rather complements available conventional treatment.

- It is not the policy of the major homeopathic organizations in the world to advice patients against the use of conventional medicine and this includes the treatment of epidemic diseases. Patients that are not on conventional therapy because their case has not reached a critical level yet are observed to get improved health and increased immunity, thus postponing the need for conventional therapy. Homeopathic treatment boosts the immune system and side-effects from conventional treatments are reduced significantly if patients also take homeopathic treatment this represents a clear win-win situation.
- Conventional medical care is non-existent or limitedly available in many areas or only available to the very rich. Homeopathy can at least help this situation. Also when conventional therapy does not work anymore homeopaths have regularly observed that these patients do respond to homeopathic treatment.
- Therapy resistance is an increasing problem making conventional medicine inactive and alternative approaches dearly needed. For the major epidemics in Africa - malaria, TB and HIV - this is a serious problem. The problems surrounding resistance are finding increasing acknowledgment within the healthcare community. "The threat of large-scale drug resistance is 'real and scary.'" (Marani 2007)<sup>183</sup>

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<sup>183</sup> Marani, Dr Lyndon, (Ministry of Health): Nairobi, 8 October 2007 (PlusNews)

"Resistance develops naturally, in response to the selective pressure from drugs or from the body's own immune system." (World Bank 2003)<sup>184</sup>

- Vaccination programmes are not available for many diseases that keep undermining the health and development of developing countries. Homeopathy can help these populations as seen before.

We suggest that homeopathy could play an important role in the treatment of these diseases and that funds would be available to further study this. The above data from history support this idea, and current observations confirm that also for the epidemics today homeopathy is still effective.

There are several reasons why the homeopathic option for epidemic diseases deserves serious consideration:

- Homeopathic remedies create no side-effects
- Homeopathy is safe for pregnant women, babies and elderly people
- Homeopathic remedies are inexpensive
- Production, storage and distribution of homeopathic remedies is simple
- Homeopathy does not induce therapy resistance
- Homeopathic treatment does not create more dangerous viruses and bacteria
- Homeopathy has been effective in many epidemics in the past and indications are very strongly that it is effective in today's epidemics as well

## **Conclusion**

It would be irresponsible not to seriously investigate the observations made over two centuries by thousands of homeopaths concerning a the homeopathic treatment of a wide variety of epidemic diseases.

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<sup>184</sup> World Bank, Global HIV/AIDS Program of the World Bank 17-18 June 2003

### **Genera conclusions**

- ✚ Homeopathy is mostly used in medicine in the framework of general practice (but also by gynaecologists, paediatricians, etc) and is used by patients of all ages.
- ✚ The respect for patients' rights means that the patient must be informed about all possible therapies that could be used to improve his/her health and also about the therapeutic possibilities of homeopathic medicines even when in hospital.
- ✚ The absence of a correct medical diagnosis at the start of a treatment is currently the only possible risk when using homeopathy as treatment. That is why it is necessary that medical doctors are dedicated to the practice of homeopathy.
- ✚ The **level of evidence** obtained for numerous diagnoses is sufficient to accredit homeopathic practice in the scientific framework of the general practice.
- ✚ The use of homeopathy in general practice may imply a reduction in costs for public health. These savings are coming from a reduction of prescribed conventional remedies, a reduction in the number of consultations and a reduction in the number of days absent from work
- ✚ The number of competent homeopathic physicians is not sufficient to cover the demand of the population. Therefore it is important to promote information sessions and education into homeopathy in the framework of the general practice.
- ✚ University research on homeopathy must be encouraged, stimulated and supported by the public health authorities.
- ✚ Basic research results and veterinary research results are confirming the obtained results by humans. This is a specific effect supported by a new scientific paradigm.
- ✚ The internal evidence is validating and confirming the effects of the medical homeopathic method.

**The facts proposed in this report are consistent. Homeopathy must be accepted in the scientific framework of medicine, especially in the general medical practice frame. Research must be supported and amplified. Objective information is needed for patients. Education in homeopathy encouraged in the frame of medicine.**