Original Article

Flu pandemics: homeopathic prophylaxis and definition of the epidemic genius

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ABSTRACT

Recent studies on viral genetics establish swine-H1N1 – responsible for the ongoing pandemics – as a remainder or continuation of the agent causing the flu epidemics of 1918. This study aimed at analyzing whether this common etiology also result in significant correlations of clinical manifestations. To do so, data were collected to compare the clinical evolution of cases in the 1918 and 2009 epidemics. This historical revision was the ground for evaluating the response to treatment including homeopathy in the former epidemics. It is discussed the convenience of including homeopathic prophylaxis grounded on the diagnosis of the epidemic genius among public health actions.

Keywords: Homeopathy; Collective health; Epidemics; Influenza A – H1N1.

Introduction

The Italian term *Influenza* was first used in 1743 to indicate the probable etiology ("Influenza del freddo": Influence of coldness) of a respiratory illness that fast affected a large number of people during the winter. *Grippe* (French), *Greifen* (German), *Flu* (English) and *Cripu* (Russian) are used to designate this universal, severe pandemic infectious disease that bursts out after irregular and relatively long periods of time (20-40 years or more). [1]

Recent data indicate that ongoing *Hog Flu* actually had its epicenter in the United States in 1918 from where it spread to Europe to become known as *Morbus ibericus* or *Spanish Flu*. Its viral etiology could only be established in 1933, when Smith, Andrews and Laidlaw were able to verify Koch's postulates reproducing the picture of flu in ferrets and white mice after nasal instillation of clinical materials of human origin. [2]

The new subtype of Influenza virus A-H1N1 was classified by the CDC (Center for Disease Control) as A/California/04/2009, a representative of a triple rearrangement of human, aviary and swine genes. [3] Genetic analysis of isolated California virus showing the direct relationship between swine variant H1N1 and the 1918 epidemics certainly results in clinical developments and implications that are discussed below. [4]

Characteristic symptoms of Influenza A-H1N1 then and now: piecing the puzzle together

Retrospective studies show that pandemic cycles present high mortality in their remission or second wave, which appears 6 months – 1 year after the occurrence of the initial, and usually moderated, cases [5]. Regarding the clinical manifestations observed during the Spanish Flu, our reference are the archives researched by Coutinho [1], which include the detailed description of signs and symptoms that he classified as described in Table 1.

The search for common points can be achieved from the comparison of the clinical characteristics of the former epidemics as described above and the clinical manifestations of the ongoing epidemics as described in June 2009. To do so, data supplied by SINAN (Information System of Disease Notification) of the Brazilian Ministry of Health (MS) were analyzed, using as sample 378 confirmed cases of severe acute respiratory syndrome due to Influenza A-H1N1 occurring until the epidemiologic week 29/2009. [6] As relevant, we highlighted sudden fever of 39°C, with dry and continual cough leading to intense dyspnea and facial cyanosis, chills, general muscle and joint pain, besides contuse headache, extreme prostration fast progressing into cardiovascular failure with hypotension and shock.

Table 1: Symptoms of Spanish Flu [1]

Stage/ Organs or systems affected	Synoptic description of signs and symptoms of human Influenza, 1918	
Prodrome	Lassitude, the body feels as after prolonged and exhausting exertion, with physical and mental depression, sudden high fever and intense headache. Joints and muscular pain, mainly in the calves and lumbar area, sweating and morbiliform rash in 30% of cases.	
Eyes and rhinopharynx	Frequent sneezing with nasal obstruction and discharge, dryness and itch in the throat with dry, whooping, frequent and painful cough. Slight catarrhal conjunctivitis, pale face and cyanosis around the mouth; frequent epistaxis.	
Respiratory and thorax	Lung congestion especially in the base, bilateral, with dyspnea due to intense bronchospasm, intense whooping-like cough with hemoptysis.	
Gastrointestinal	Hiccups, nausea and incoercible vomiting, sialorrhea, abdominal pain around the navel with mucous/bloody diarrhea.	
Neurological	Headache, vertigo, neuralgia; modification of the level of consciousness in different degrees, mental confusion, torpor, somnolence.	

In order to manage data arising from different sources and to better understand the global dimension of the clinical parameters of the pandemics, we included the report of 18 Mexican cases from which 7 died (39%), where there was fever, cough and dyspnea in 100% of cases, sudden onset (72%), hemoptysis (33%), hypotension and hypoventilation (more than 50%), stressing furthermore the occurrence of diarrhea only in children (22%). Lymphocytopenia with less than 1,000 cells (61%), increase of CPK (creatine phosphokinase) (72%) and LDH (lactate dehydrogenase) (100%) were the main laboratory parameters verified. [7]

We also sought to define the 5 main risk factors among the Brazilian population, on the grounds of the 222 patients monitored until epidemiologic week 28/2009/MS/SINAN [8]: 1) pregnancy – representing the group with higher mortality risk associated with hemorrhagic phenomena, placental abruption, hypoventilation and shock; 2) lung disease; 3) arterial hypertension; 4) heart disease; 5) immune depression.

The clinical comparison of Spanish Flu (1918), Mexico (2009) and Brazil (2009) makes evident the strict correlation of symptoms among them, a fact of high relevance as it also allows making a retrospective evaluation of the outcomes of homeopathic treatment between 1918 and 1920 which can supply reliable criteria to face the ongoing pandemics.

Foundations of homeopathic prophylaxis

Preventive use of homeopathy was first applied in 1801 during an epidemics of scarlet fever in Königslütter, Germany, when Samuel Hahnemann – the founder of homeopathy – prescribed a single dose of *Belladona*, as the remedy of the epidemic genius to susceptible children in the town with 100% success [9]. Homeopathic

prophylaxis is grounded on the ability of homeopathic remedies to avoid or attenuate manifestations of disease when chosen according to the principle of similarity. According to authors such as Trousseau and Tetau it is also grounded on the notion of "terrain" and inheritance that would include the set of individual factors related to the constitution, predisposition and refractoriness to disease and metabolism[10]. Eizayaga sustains that homeopathic remedies increase individual unspecific resistance to infections, whereas nosodes increase specific immunity regarding definite etiologic agents[11]. Ullman attributes the prestige of homeopathy in Europe and the United States in the 19th century to its success in the treatment of epidemics. [12]

Antecedents of the use of homeopathy in the pandemics Influenza A-H1N1 (1918)

Pandemics continued to cause high mortality in the 20th century: the Spanish Flu claimed 20-40 million victims, the Asiatic Flu – H2N2 (1957), 1 million and the Hong Kong Flu – H3N2 (1968), 700 thousand. [13]

In this study, we restricted historical revision of the use of homeopathy in epidemics to pandemics of human Influenza. As sources, we employed Winston's major study on the use of homeopathy in 1918 epidemics [14], while establishing as criteria the selection of rigorously verified data - through historic and scientific documents and ratified by official sources – we focused on Dewey's paper (cited in Winston) [15], published in 1921 in the Journal of the American Institute of Homeopathy with the title "Homeopathy in Influenza: A Chorus of Fifty in Harmony".

At that time, Dewey was professor of materia medica and therapeutics at Michigan University, which acquainted him with academic standards, so that he recorded with utmost care data highly significant for our research as exhibited in Table 2.

Cases of human Influenza treated with homeopathy in 1918 Source **Place** Total number of patients Mortality rate Pearson, W. A. Philadelphia 26.795 1,05% 30 doctors from several cities Connecticut 6.602 1% 8.000 0,01% Wieland, F. Chicago Sappington, E. F. District of Columbia 50.000 0,01% (Homeopathic Medical Society) (Washington) McCann, T.A. Dayton, Ohio 1.000 0%

Table 2: Data mentioned by Dewey

Outcomes of patients treated with homeopathy are remarkable, especially when compared with those of patients treated exclusively with conventional remedies, as e.g. a group of 24,000 patients in Ohio, where mortality was 28.2%. It is particularly noteworthy the comment of F. Wieland, from Chicago, on the use of *Gelsemium* during the epidemics, which according to him "was virtually the only remedy prescribed" [16].

Hughes' contribution: a map leading to the "eye of the hurricane", or how to actually find the epidemic genius

Although to find the epidemic genius repertory analysis of the most remarkable, rare, strange and peculiar symptoms present in most cases during an epidemics may have some success, it is needed to resist the seduction of simple arithmetic additions, as this perhaps is the chief reason of mistakes in the diagnosis of the epidemic genius.

Richard Hughes, a leading representative of 19th century homeopathy believed that the selection of a remedy ought not to be grounded only on subjective symptoms, but rather on the *characteristic nucleus* of the symptomatic picture that was mandatorily expressed in the pathological effects experimentally verified in human beings and animals [17]. By the same token, he sustained that together with the principle of similarity, also pathology ought to be taken into account. For this reason, between 1884 and 1890, with the collaboration of Dake, he subjected the homeopathic materia medica to revision and depuration, which resulted in his 4-volume *A Cyclopaedia of Drug Pathogenesy*. Besides excluding purely clinic symptoms he emphasized provings conducted with low dilutions, i.e. below 6cH in order to obtain highly reliable data [17].

"Hughes' filter" — a tool seeking to ensure that the selected remedy is necessary and sufficient to pharmacologically minimize the physiopathology of an illness sought to prevent or heal — is extremely useful when candidates for epidemic genus are many, as in the case of the ongoing flu epidemics, were possible remedies include *Aconitum napellus*, *Bryonia alba*, *Eupatorium perfoliatum*, *Influenzinum*, *Phosphorus* and *Rhus toxicodendron* among others besides *Ipecacuanha*. Application of "Hughes' Filter" results in the peremptory indication of *Ipecacuanha*, on the grounds of the unmistakable specificity of its pattern of medicinal dynamics as it is shown below.

Grounds for the diagnosis of *Ipecacuanha* as epidemic genius in the ongoing Influenza A-H1N1 pandemics

Data on *Ipecacuanaha* agree among the different sources of the homeopathic materia medica beginning from Hahnemann's initial *Fragmenta de viribus medicamentorum*... published in 1805 [18]. Phatak's materia medica was selected as an example to deepen the study of the general action of this remedy, which includes: continual nausea, hemorrhages and frightening respiratory disturbs always accompanying most symptoms, such as bleeding gastrointestinal disorders; severe prostration with alteration of the level of consciousness; seizures and tetanus-like spasms complete the picture of symptoms. [19] It must be highlighted that aggravation occurs by both cold and heat, whereas this extraordinary hypersensitiveness to extreme modalities of temperature [20], although uncommon, has a direct relationship to the persistence of cases of Influenza A-H1N1, even in the lack of low temperatures, which leads us to conclude that these are instances not only of "Influenza del freddo" but also of "Influenza del caldo", manifesting a recently acquired ability of the present time mutant virus.

Regarding the high mortality rate among pregnant women, Phatak highlights profuse hemorrhages gushing out, with nausea, tachypnea, constant abdominal pain in the hypogastrium, stitches from the navel to the uterus, placenta previa and uterine prolapse.

The objective sequence of symptoms composing the physiopathologic and pathogenetic picture of *Ipecacuanha* must be seen as a dynamic picture, comprehending the extension of symptoms such as intense headache from the nape to the root of the tongue, with sensation as from a wound, as if the head had been beaten by blows, with nausea and cold sweating on the face, constriction of the chest and the larynx, with incessant, exhausting and violent cough at each breath, which makes the patient become stiff and cyanotic on the face,

with uncontrollable hemoptysis, extenuated and almost unconscious, febrile and often evolving to bronchopneumonia, shock and death [19].

For reasons we ignore, *Ipecacuanha* is not listed anymore among the best remembered remedies by homeopaths. However, it was included in the first list of 24 polycrest remedies made by Hahnemann, i.e. remedies "which have many indications" [10].

The contribution of experimentation of Ipecacuanha in animals

Uraoga, ou *Cephaelis ipecacuanha* Swartz (Figure 1) is a plant native to center-west Brazil; a small shrub of 20-40 cm height, its chemical composition includes catechols (ipecacuanic acid), nitrogen heterosides, glycoproteins with allergenic properties and mainly about 3% isoquinoline alkaloids, among which emetine (60-75%). Its active principles are mainly concentrated in the dried root, which is the part used in the preparation of the remedy [21].



URAGOGA IPECACUANHA

A) PLANT B) FLOWER

Figure 1: Uragoga Ipecacuanha [22]

Records of experimentation of *Ipecacuanha* in animals (frogs and rabbits) mainly express disorders attributed to emetine, such as hemorrhage, depression of the myocardium, pulmonary congestion, pneumonia and vomiting, among others. [23] (Figure 2)

IPECACUANHA.

17

III. Experiments on animals.—I. Dr. Polichronie (Thèse de Paris, 1874) has made a series of researches for the purpose of discovering the mode of action of Ip. and of emetine. His conclusions are as follows:

a. Emetine is the really active principle of Ip.

b. Emetine is a very toxic substance. It kills animals in two ways, sometimes by the prostration of the nervous system which it causes, sometimes—when given in small doses—by the intense enteritis which

it brings on.

c. Emetine brings on vomiting only at the moment of its elimination by the gastric mucous membrane, as proved by the delay of the sickness, and even more frequently its entire absence, after section of the two vagi; in this respect it acts quite differently from apomorphia and tartar emetic, these causing vomiting as quickly when the nerves are cut as when they are intact.*

d. Emetine has no vaso-constrictor action. (Lond. Med. Record,

111, 59.)

2. PECHOLIER, in his experiments, employed emetine as well as the drug itself. The animals selected for experiment were rabbits and frogs,—the former because they do not vomit. The following are the results of the inquiry:

a. I. considerably diminished the number and energy of the pulsa-

tions of the heart in rabbits.

b. It notably reduced the number of respirations in these animals, as well as the afflux of blood to the lung. Indeed, the pale and exsanguine state of the pulmonary tissue displayed after death was remarkable; it was a veritable depletion of the lung.

c. In animals under its influence the temp. of mouth, axilla, and ear was lowered, while that of rectum remained stationary or rose.

d. In the digestive sphere, Ip. produced efforts at vomiting, hyper-

æmia of alimentary canal, and disappearance of sugar from liver.

e. The action on the nervous system was investigated in frogs. It reduced promptly the energy of the nervous system, and determined considerable collapse. The paralysis induced by it showed itself chiefly in the sensory system; motor nervous power and muscular irritability were merely diminished and not wholly abolished. (Lancet, April 25th; 1863.)

3. My experience of the effects of emetine is at variance on some points with that of M. Pécholier. In my cases the respiratory movements were increased in frequency, and the cardiac action was not less rapid than in health. In the lungs there was always, post mortem, more or less engorgement with blood and in one case even lobular pneumonia was set up. (Dyce Duckworth, St. Barth. Hosp. Rep., v, 220.)

* The same results have been obtained by Chouppe (Gaz. Méd. de Paris, Aug. 1874).—EDS.

Validity of the use of homeopathic complexes in epidemics

Use of remedies synergically associated in epidemics constitutes an interesting resource and besides acknowledged by experienced practitioners, it is justified in order to widen the scope of action resulting in higher effectiveness [10]. Therefore, in the current circumstance, it seems pertinent to add to *Ipecacuanha* – selected as epidemic genius – a second remedy arising from the application of the criterion of etiopathogenic similarity, viz. nosode *Influenzinum* – in fact nosode of H1N1 would be better indicated. Despite it is prepared from antigenic variant H2N2 (Asiatic Flu, 1958), it is still indicated according to Kent's remark in Lection XXIX: "prophylaxis requires a lesser degree of similarity than the one needed to heal" [24].

Gelsemium sempervirens can also be added, as a complementary of *Ipecacuanha* [25] in order to strengthen the effect of the prescription during the prodrome, increasing in this way the prophylactic value of the complex.

Moreover, in a paper presented to the I Panamerican Congress of Homeopathy in 1977 dealing with "Prophylaxis of infectious diseases in the first months of life with homeopathic nosodes", Castro mentioned that during the 1918 flu epidemics, *Gelsemium* was the epidemic genius, whereas during the 1957 epidemics, *Influenzinum* prepared by Nelson Laboratory in London was prescribed with success [26].

Table 3 describes more details of the abovementioned remedies.

Table 3: Basic data of the remedies included in the complex [27]

Influenzinum (nosode)	Gelsemium sempervirens	Ipecacuanha
Source:	Source: Fresh rhizome.	Source: Dry root collected before blossoming.
Flu vaccination prepared by Pasteur Institute, consisting in a mixtre of 3 parts of culture of Asian virus A- Singapour I-1957 and 1 part of culture of European virus APR-8	Original habitat: North America Famíly: Loganiaceae Vulgar names: Yellow Jessamine, Evening	Original habitat: Brazil Famíly: Rubiaceae Scientific name: Cephaelis ipecacuanha Swartz
Pathogenetic trial [33]	Trumpetflower Pathogenetic trial [34]	Pathogentic trial [35]

Regarding indications found in homeopathic repertories related to the use of *Influenzinum*, *Gelsemium* sempervirens and *Ipecacuanha* in Influenza, we found mentions in Boericke [28] and Farias Dias [29].

Conclusions

Prejudice or ignorance are not valid reasons to rule out homeopathic prophylaxis as an adjuvant tool in the fight against resurgent epidemics but conversely, rejection implies in dismissing logic, evidence and scientific neutrality itself.

The scope and effectiveness of application of homeopathy in collective health has been strongly hinted at, more recently in the control of dengue in Macaé, Rio de Janeiro and São José do Rio Preto, São Paulo, Brazil [32].

The Brazilian health system is in state of alert facing the impact of the flu pandemics; to approach successfully this crisis it is legitimate to include the homeopathic model in the strategy adopted by the Ministry of Health.

In public health, when a homeopathic remedy is preventively prescribed in single doses, the choice of the dilution is a significant technical factor, strictly dependent on the projected repetition of the medicinal stimulus. In the current condition, for the effect of the stimulus to last at least 3 months, the most indicated dilution is 12cH.

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Pandemia de gripe: homeoprofilaxia e definição do gênio epidêmico

RESUMO

Estudos recentes de genética viral estabelecem o vírus H1N1 suíno – responsável pela atual pandemia – como remanente ou continuação do agente que produziu a epidemia de gripe de 1918. Este estudo visou analisar se esta etiologia comum também se acompanha de correlação significativa das manifestações clínicas. Para tanto, foram coletados dados a fim de comparar a evolução clínica nos casos nas epidemias de 1918 e 2009. Esta revisão histórica foi a base para avaliar a resposta ao tratamento, incluindo o homeopático, na epidemia passada. Discute-se a conveniência de incluir homeoprofilaxia entre as medidas de saúde pública, com base no diagnóstico do gênio epidêmico.

Palavras chave: homeopatia; saúde coletiva; epidemias; influenza A-H1N1.

Pandemia de gripe: profilaxis homeopática y definición del genio epidémico

RESUMEN

Estudios recientes de genética viral establecen el virus H1N1 porcino – responsable por la pandemia actual – como remanente o continuación del agente que provocó la epidemia de gripe de 1918. Este estudio buscó analizar si esta etiología en común también se acompaña por correlación significativa de las manifestaciones clínicas. Con este fin, fueron recogidos datos con el propósito de comparar la evolución clínica en casos de las epidemias de 1918 y 2009. Esta revisión histórica sirvió como base para evaluar la respuesta al tratamiento, incluyendo homeopatía, en la epidemia anterior. Se discute la conveniencia de incluir profilaxis homeopática entre las medidas de salud pública, basada en el diagnóstico del genio epidémico.

Palabras llave: homeopatia; salud pública; epidemias; influenza A-H1N1

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