Ethical, pedagogical, socio-political and anthropological implications of quaternary prevention*

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Abstract

The concept of quaternary prevention, resulting from a reflection on the doctor-patient relationship, is presented as a renewal of the age-old ethical requirement: first, a doctor must do no harm; second, the doctor must control himself/herself. The origin of the concept, its endorsement by the World Organization of Family Doctors (WONCA) and the European Union of General Practitioners (UEMO), its dissemination, and the debates to which it has given rise, are presented by a panel of authors from 10 countries. This collective text deals more specifically with: the bioethics of prevention, the importance of teaching Quaternary prevention and factual medicine, the social and political implications of the concept of quaternary prevention, and its anthropological dimensions.

Keywords: Quaternary Prevention; Ethics, Professional; Evidence-Based Medicine; General Practice

Resumo

O conceito de prevenção quaternária, resultante de uma reflexão sobre a relação médico-paciente, é apresentado como uma renovação da antiga exigência ética: primeiro, o médico não deve causar nenhum dano; segundo, o médico deve se controlar. A origem do conceito, o seu endosso pela Organização Mundial de Médicos de Família (WONCA) e a União Europeia de Médicos de Clínica Geral (UEMO), a sua divulgação e os debates a que deu origem, são apresentados por um painel de autores de 10 países. Este texto coletivo trata mais especificamente de: a bioética da prevenção, a importância da ensinanza de a prevenção quaternária e a medicina factual, as implicações sociais e políticas do conceito de prevenção quaternária e nas suas dimensões antropológicas.

Palavras-chave: Prevenção Quaternária; Ética Profissional; Medicina Baseada em Evidências; Medicina Geral

Resumen

El concepto de prevención cuaternaria, resultante de una reflexión sobre la relación médico-paciente, se presenta como una renovación del antiguo requisito ético: primero, un médico no debe hacer daño; segundo, el médico debe controlarse a sí mismo. El origen del concepto, su respaldo por parte de la Organización Mundial de Médicos de Familia (WONCA) y la Unión Europea de Médicos Generales (UEMO), su difusión y los debates a los que ha dado lugar, son presentados por un panel de autores de 10 países. Este texto colectivo trata más específicamente de: la bioética de la prevención, la importancia de la enseñanza de la prevención cuaternaria y la medicina práctica, las implicaciones sociales y políticas del concepto de prevención cuaternaria y sus dimensiones antropológicas.

Palabras clave: Prevención Cuaternaria; Ética Profesional; Medicina Basada en la Evidencia; Medicina General

Patient doctor relationships facing doubt and uncertainty in medical practice

Uncertainty and the arrow of the time are points of support cited by Ilya Prigogyne to face the absurd of the world "In a probabilistic universe, in which different possibilities may appear". We will in this text make a trip between uncertainty and time line. We talk about clinical prevention, a search for reducing uncertainty in the course of time, in the context of a care relationship. Medicine is based on the patient-doctor relationship. Without relationship, there is no medicine, there is only technology.

It is good to analyze the question of doubt and uncertainty, according to the three angles of the patient, the doctor and the relationship that unites them (Figure 1).

These three elements form what is called a semantic triplet, a triplet that gives the relationship as much value as the other two elements and makes all three respond to uncertainty. An anthropological approach makes it possible to grasp this dimension. Uncertainty from the point of view of the patient (P) is an existential uncertainty, related to the consciousness of being and death. The uncertainty of the physician (D), who is also a human and therefore a patient, is that of the doubt which constitutes the basis of any scientific approach. Without doubt there is no science, no questions, no medicine.
We thus see that the relation R is formed by the meeting of two epistemologically different points of view; existential fear and scientific doubt that can hardly coincide. It is already a difficult exercise of communication between P and D to agree on the contents of the relation R. In the theory of communication, we will say that the channel itself generates a noise which disturbs the message. The very fact that the doctor is also a human being can strongly disrupt the relationship. The uncertainty of the patient will be more easily expressed if the real reason for consulting is, in a first diagnostic procedure, identified by the doctor. The patient is often more concerned with the prognosis of pain than with the pain itself. The identification of the real problem of the patient makes it possible to better answer his uncertainty.

What about the doctor’s uncertainty? The answer seems obvious as the acronym EBM for Evidence Based Medicine or factual medicine indicates. As Davidof et al. argues, Evidence-Based Medicine “to fill the chasm by helping doctors find the information that will ensure they can provide optimum management for their patients”. But situations where quantitative factual medicine may apply are rare in general practice. The data based on this medicine are often mono-pathological and technological and we know that the heart of the profession of family doctor is the qualitative and narrative approach, multimorbidity and personal care in its bio-psycho-social context.

Considering this complexity, let’s move forward into the timeline and thus into the concept of prevention.

**The Quaternary prevention concept, origin and dissemination**

The terms primary, secondary and tertiary prevention were coined by Leavell & Clark in the 50’, based on the phases of Syphilis model, and they have been widely disseminated in public health world. This doctor-defined and disease-centered chronological view prompted Bury to use quaternary prevention in its chronological sense in order to define palliative care.

We have proposed a relational vision of prevention. Our model, designed in 1986, is built on a cross tabulation. Prevention is the result of relationships between patient and doctor over time. The cross between science and consciousness delimits four nebulae reflecting the blurred boundary between health and illness. However, in day-to-day practice, the distinction is usual and four areas of activity are represented. The timeline crosses the table obliquely. Patients and doctors meet at the end and die together (point Ω) (see Figure 2).
These four areas of activity form the core of family medicine. To vaccinate a healthy patient is primary prevention (true negatives). If the doctor bets on disease and offers screening, this is secondary prevention (false negatives). If the doctor make a diagnosis and the patient admits he is sick, curative medicine begins and avoiding side effects and complications and start rehabilitation is tertiary prevention (true positives).

If the patient has symptoms and the doctor cannot objectify the suffering as a disease, the suffering has no name and therefore does not exist. This illness does not find its place as a social construct. Putting in place a strategy that meets this denial of being is called quaternary prevention (false positives). These patients are often considered difficult and their past is often filled with violence and anxiety. They are often referred to the psychiatrist. The symptoms are sometimes the mirror of their lives. But there is nothing worse for a patient than to be known as a carrier of nothing. Of course, we are also talking about diagnostic errors that confine a patient to the diagnosis of fibromyalgia until ankylosing spondylitis is diagnosed.

Quaternary prevention is more than factual activity. It covers over-medicalization, over-information, over-screening, overdiagnosis, overtreatment, as well as avoidable treatments, patient protection and more generally the limits of medical care. Implicitly, patients and uncared populations are part of this area which also covers under-medicalization. Quaternary prevention also challenges these strange diagnoses as “No disease disease - clinically unexplained symptoms - worried well - heartsink or hateful patients - functional somatic syndromes - somatoform disorders - abnormal patient behavior (non-exhaustive list).” A poster translated into several languages is available on the WONCA International Classification Committee (WICC) website [(www.ph3c.org/P4). It shows the progress of the concept, its publication by WONCA in 2003 and its approval in 2011 by the European Union of General Practitioners (UEMO).
After its presentation at the 25-year Congress of the Brazilian National Unified Health System (SUS) in 2008, quaternary prevention has spread throughout Latin America. It also escaped from the cross-tabulation table and, applying to all areas of medicine’s actions (as shown by the circular arrow in Figure 2), she became an attitude, a thought about to act the doctor himself in a relationship marked by dependency and distress.

Quaternary prevention is an ethical imperative of self-control, a renewal of the motto “primum non nocere”. The movement of young South American physicians and their interest in the concept is largely due to the extremely aggressive commercialization of health by the industry. Alongside the over-medicalization that is almost intrinsic to the practice of medicine, described as positive iatrogeny by Michel Foucault, there is over-medicalization due to excessive commodification of health products. In particular, the markets for Alzheimer’s, Ritalin and Hydroxycodone are in the billions of dollars. The intensive lobbying of vaccine companies and the legal requirement of certain preventive practices, such as those in Uruguay and France, raise questions. Protecting the patient against these markets has become an obligation for the doctor.

Evidence-based medicine (EBM) is a fundamental tool for deciding the right attitude, especially in pharmacotherapy, and the EBM movement seized Quaternary Prevention and reformulated its definition according to an operational vision: Measures taken to protect individuals (people/patients) medical interventions that may cause more harm than good.

Evidence-based medicine is also important for quaternary prevention at the level of healthcare organization. One example is Poland, where the health system is based on compulsory health insurance. Physicians are paid in proportion to the number of patients on their list and are required to provide curative and preventive services. Of the 14 preventive interventions prescribed by the Regulation, six are not evidence-based and evidence-based medicine offers a range of interventions different from those proposed in the Regulation. As we point out later, this example suggests that the judicious choice of preventive interventions by the political authority is an integral part of quaternary prevention, well beyond the clinic.

Although slow, the spread of the concept has been amazing. It is translated into almost all European and some Asian languages. Following the publication of a manifesto at the WONCA conference in Rio de Janeiro in December 2016, a special interest group was created. The concept is now part of the basic teaching of family medicine. The double-entry table is particularly effective for teaching prevention. This reflection on the doctor-patient relationship, highlights the concerns of many family physicians around the world. Quaternary Prevention has become a movement of thought crossed by many complementary currents.

Thanks to family medicine conferences and computer tools (websites, mailing lists, WhatsApp lists in many countries), exchanges have been intense. Numerous online courses and presentations have been organized, documents have been published and several adaptations of the concept have been proposed (see Table 1).

This article is the culmination of the reflections of many international colleagues. The four groups of co-authors discuss below the importance of quaternary prevention in ethical domain, its impact in teaching, the sociopolitical aspects it implies and finally the anthropological aspects it underpins.
Table 1. Availability of Quaternary prevention concepts on-line for teaching and bibliographic retrieval in various languages. (Direct access by clicking on the link).

<table>
<thead>
<tr>
<th>Languages Types</th>
<th>Types</th>
<th>Purpose</th>
<th>Internet link</th>
</tr>
</thead>
<tbody>
<tr>
<td>English, French, Turkish, Spanish, Portuguese, Korean, Italian, Vietnamese, Polish, Dutch, Georgian, Ukrainian</td>
<td>HeTOP.eu descriptors</td>
<td>Teaching &amp; bibliographic searches</td>
<td>D2IM Rouen, France <a href="http://www.hetop.eu/3CGP">www.hetop.eu/3CGP</a></td>
</tr>
<tr>
<td>Spanish, Portuguese, English, French</td>
<td>DeCS descriptors</td>
<td>bibliographic searches</td>
<td>PAHO-WHO Sao Paulo, Brazil <a href="http://decs.bvs.br">http://decs.bvs.br</a></td>
</tr>
<tr>
<td>Chinese, Thai, Vietnamese, French, Spanish, Portuguese, Dutch, English</td>
<td>Posters on the WICC Web site</td>
<td>Teaching</td>
<td>WICC WONCA <a href="http://www.ph3c.org/P4">http://www.ph3c.org/P4</a></td>
</tr>
<tr>
<td>Spanish, English, French</td>
<td>Quaternary Prevention Library and Resources</td>
<td>QP Resource Repository</td>
<td>QP SIG WONCA <a href="https://goo.gl/oy1gFZ">https://goo.gl/oy1gFZ</a></td>
</tr>
</tbody>
</table>

Quaternary Prevention and medical ethics

The definition of Quaternary prevention (QP) reproduced in the Figure 2 ends by the words ‘ethically acceptable’. This last phrase of the definition means that the final goal of QP would make clinical practices conduct under bioethical principles.28,29 Nowadays, four principles of medical ethics such as non-maleficence, beneficence, respect for autonomy, and justice have been suggested by the Belmont Report30 in 1979 and Gillon31 in 1994.

• First, the QP has preferentially highlighted the principle of non-maleficence (primum non nocere)32 by avoiding over-medication.33-35 Because clinicians have ethical obligation to protect patients from potential harm.36 Especially general practitioners or family physicians (GP/FP) usually are in position to the starting point of clinical management so that they play the important role of preventing the cascade of unnecessary medical services.24,37 In this context, the responsibility of medical professionalism is stressed in implementing QP.38

• Second, beneficence is aimed to provide net medical benefit over harm to patients.31 To do this, GP/FP have to achieve evidence-based practice with assessing probabilities of various benefits and harms.29,39 As Sackett40 redefined evidence-based medicine (EBM) as the integration of best research evidence with clinical expertise and patient values, GP/FP have to accept the value-based medicine (VBM).41

• Because the definition of VBM by Brown, Brown et Sharma42 is ‘the practice of medicine incorporating the highest level of evidence-based data with the patient-perceived value conferred by health-care interventions for the resources expended’.42

• Third, respect for autonomy gives emphasis to participate patients in a clinical decision-making.31 To do this, the concept of ‘shared decision making’ (SDM) has been stressed.32 Especially, SDM would make patients empower, which is a goal of QP,43 because Charles et al. described SDM as ‘a two-way exchanges of information between the parties concerned with the medical decision’.44 Accordingly, Widmer45 suggested QP as ‘relationship based medicine’. In addition, SDM could overcome a defensive medicine caused by the non-avoidable uncertainty in process of decision making,46,47 so that over-diagnosis and over-treatment by medical futility decision could be prevented.41 For good communication in clinical setting, GP/FP should consider actively to apply some tools as likely as patient decision aids.49
• Last, Gillon\textsuperscript{31} distributive justice means to allocate limited health-care resources fairly. Thus, effort to prevent overmedication in QP is following not only the principle of non-maleficence but also the obligation of justice because it could reduce to waste the resources.\textsuperscript{45} In order to avoid in-efficiency of medical services, appropriateness of patients’ care should be maintained in individual level.\textsuperscript{50} And the process of setting priorities in health care reflected a social value in population level would be helpful, too.\textsuperscript{51}

In summary, implementing the QP is following 4 major principles of medical ethics. Kalra, Baruah et Sahay\textsuperscript{52} suggested 3 aims of QP such as to prevent overmedicalization, to protection from medical invasion, and to suggest ethically acceptable interventions. To achieve these aims under ‘being ethically acceptable’, GP/PF should get potentialities for medical professionalism, EBM and VBM, SDM, and appropriateness of care.

To teach and learn Quaternary Prevention

Why should quaternary prevention be taught?

Three major arguments encourage us to propose to include the subject of quaternary prevention in the training programs of health professionals:

• The first follows from what was discussed in the previous section. Health professionals must learn to behave ethically. Quaternary prevention is a corollary of the four main principles of medical ethics. This implies that health professionals should learn to practice it.

• The second argument is epidemiological. Unexpected damage, caused by health care, is common and in some cases can have very serious consequences for morbidity and mortality. Thus, undergraduate and graduate programs focusing on quaternary prevention should include teaching of key factors, mechanisms and interventions to reduce health care harm.

• The third argument is openness to critical thinking. In our experience, teaching quaternary prevention gives students a different perspective on health practice, especially when the curricula are based on a biomedical model.

The teaching of quaternary prevention illustrates how psychological, social, political and economic forces influence the practice of health.

Which topics should be included?

The teaching of quaternary prevention is a complex field where epidemiology, communication, doctor-patient relationship, learning-centered approach, teaching skills centered on persons along with many others abilities must be present in a balanced way. Biopsychosocial approach, macro and micro views of different areas such as economy, health care services organization and technological incorporation policies are integral part of QP. In the same way, public and to health professionals other than doctors have to become involved.\textsuperscript{21}

After seeing Figure 2, students can, for example, discuss why some people get sick without having a defined illness. Students can also analyze the systems as the Polish example described above.
Ethical, pedagogical, socio-political and anthropological implications of quaternary prevention where politicians dictate mandatory preventive interventions, many of which are not supported by solid evidence. A final example would be to discuss the consequences of the progressive lowering of hypertension thresholds in terms of the number of people who are offered pharmacological treatment.

Teaching should also pay attention to the application of quaternary prevention at different organizational levels: the patient-physician relationship (micro), health education and continuing medical education (meso) and at the societal level (macro). Table 2 recently used in a training course in the Family and Community Residence Program in Argentina shows the complexity of the learning-teaching process that applies quaternary prevention to curricula.

Table 2. Quaternary prevention education according to the levels of organization (adapted from M. Pizzanelli)

<table>
<thead>
<tr>
<th>Fields</th>
<th>Ethics</th>
<th>Education</th>
<th>Research</th>
<th>Health Policy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Micro (Individual)</td>
<td>- empathy</td>
<td>- Ability to critical reading</td>
<td>- Self-observation protocol</td>
<td>- Developing a Sociological Consciousness</td>
</tr>
<tr>
<td></td>
<td>- Self control</td>
<td>- Refusal of market influence</td>
<td>- Consultation as Qualitative Research</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Shared medical decision making</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Meso (groupe)</td>
<td>- Accurate information exchange with the group</td>
<td>- Evidence Based Medicine</td>
<td>- Error control protocol</td>
<td>- Supporting a care integration policy</td>
</tr>
<tr>
<td></td>
<td>- Mastering communication at the group level</td>
<td>- Community health</td>
<td>- Implementation of the quality loop</td>
<td>- Network focused on patient relations</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Comprehensiveness</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Macro (society)</td>
<td>- Promotion of horizontal programs and longitudinality</td>
<td>- To provide the necessary tools and database</td>
<td>- Incitement to people-centered research</td>
<td>- Define a patient-centered health policy</td>
</tr>
<tr>
<td></td>
<td>- Control of the respect of the rules of confidentiality</td>
<td>- Train the actors</td>
<td>- Take into account the result of research</td>
<td>- Protecting health actors against market aggression</td>
</tr>
</tbody>
</table>

Despite this complexity, important work has already been done on the inclusion of quaternary prevention in the academic agenda. Experts from several Ibero-American countries have issued a series of recommendations on teaching and learning. Graduate trainees should learn how to critically evaluate literature, how to deal with ethical dilemmas, how communicate effectively with patients and promote patient-centered care and shared decision-making. Universities and residency programs should make quaternary prevention a subject of pre- and post-graduate medical education; train medical teachers in quaternary prevention, support residents who want to do research on quaternary prevention and include it in pre-graduation and undergraduate exams.

As stated in the introduction, quaternary prevention is based on relationship. However, the lack of lasting and meaningful relationships with patients, supervisors, peers and professional colleagues, caused by the current structure of medical education in some countries, results in a weak capacity to build relationships in the future. Students and residents should develop relationships with patients and team members to enable feedback. In a qualitative study, residents described how frequent transitions from one service to another affected their ability to create relationships with patients. In integrated longitudinal training, students have the opportunity to develop one-year relationships with faculty and patients. Hirsch and all. demonstrated that students perceive their relationships with patients as having a real impact on the well-being of patients, more than in a comparison group. Students also had better empathy scores at the end of the Integrated Longitudinal Training Program than did students in a traditional program.
What results can we expect from teaching quaternary prevention?

Few published studies evaluate the impact of quaternary prevention education. We found an intervention study of fifth-year medical students at Pham Ngoc Thach University (Hochiminh City, Vietnam). Students were asked to list their potential interventions based on three different simulated clinical scenarios before and after the Quaternary Prevention training intervention.

Despite the brevity of the intervention, the survey showed changes in students’ attitudes about clinical decisions. This means that the framework of quaternary prevention could change the clinical reasoning and decisions of medical students.

The introduction of the reasoning framework to quaternary prevention could stimulate medical students in a holistic reasoning process (whole person care), which is one of the principles of family medicine. Students could also become more independent researchers by acquiring cognitive skills that allow them to analyze relevant information about medical interventions based on the needs of patients. These results of the study suggest a positive change in behavior in the student decision-making process.

In summary, there are strong theoretical arguments for including quaternary prevention in a renewed curriculum focused on the first and second cycle.

Anthropological dimensions of Quaternary Prevention

Originally quaternary Prevention find a first solution to overmedicalisation with an increased attention on psychological and social dimensions of health, according the bio-psycho-social model. It became evident that overmedicalisation can affect all domains of medicine (primary, secondary and tertiary prevention are also involved).

Evidence Based Medicine (EBM) is certainly the essential instrument to assess a medical technology. We use here the term health technology in the broad sense of European Commission as “comprising medicinal products, a medical device or medical and surgical procedures as well as measures for disease prevention, diagnosis or treatment used in healthcare”.

All medical technologies can be most often submitted to EBM procedures, necessary to evaluate their utility or their danger.

Can all the medical activity be reduced to a health technology submitted to evidence based evaluations? Sackett et al. admitted that clinical expertise was fundamental beside best clinical evidence. We know that general practitioners cannot apply every time and everywhere best clinical evidence but that outcomes of treatment in general practice are better than those of the sum of specialists applying separately evidence of their own domain. This fact is known as “paradox of primary care”, confirming the importance of clinical expertise, weighting evidence for each clinical, psychological and social situation. Some voices have call not to reduce evidence to the dominance of measures and randomized controlled trials, but to integrate qualitative research in the process, mixed method becoming a new model for scientific research in medicine.

Social and cultural anthropology interested in medicine and health shares, through its rigorous ethnographic approach - including participant observations, interviews, focus groups, as well as its concepts and theories -, a critical reading in different fields contributing to quaternary prevention by:
• An interest in clinical practice, to be regarded as a social space confronted to a set of norms and values, social and professional models, as well as political and economic implications.65

• Inventory of clinical experience. How GPs really do for avoiding overmedicalisation? How they decide in uncertainty?2,66 How they use new technologies?

• Anthropological field surveys in certain areas, for example migrants, rural remote areas, to understand patient's representations and behaviour, care pathways, individual and community priorities, organization of care facilities67 and availability of cultural simple and efficient solutions.68 Qualitative approach and ethnographic analysis can also be a mode of practices evaluation, taking into account barriers, inappropriate approaches and point of view of people.

• Interest for political discussions about regulation and assessment of health technologies to understand the ways of decisions, the role of stakeholders and factors contributing to assessment other than evidence, such as ethical or socio-political matters. Quaternary prevention approach seems particularly important in context where health technologies are developed and available.

• Interest for global health, with the aim to connect society with health innovations and health policies/health delivery, and thus to analyze health transformations within local-global relations, between the universality of scientific medicine and its social and cultural background. This stance ought to be all the more critical due to the fact that the transformations carried by the globalization of healthcare often form an asymmetrical, unequal and differentiated process, regarding the implementation of programs as well as the circulation of models.69

In that respect, and in a quaternary prevention context, an anthropological approach addresses the ethical issues related to clinical practice, which can be analyzed according to different dimensions: global health, national policies, corporate cultures, clinical and care practices, and patients’ experiences.

Socio-politics implication of Quaternary prevention

Family Medicine emerged as a response to a medical care that became fragmented, depersonalized and discontinuous. The Quaternary prevention concept challenges the positivist ideals of modernity that maintain that science and the progress of society are constant and always for the better.

This conception refers us to the idea of positive iatrogenia of Michael Foucault when reminding us that medicine has acquired the capacity to harm due to its correct exercise and not only due to lack of skill or ignorance.16 Moving away from the conception of science of modernity allows us to separate ourselves from the idea that science is something that only deals with knowledge and is divorced from ethics and the influences of politics and economics, in short, the P4 challenges the inadequacies of the Hegemonic Medical Model.70

Medicine has been in crisis for a long time. The signs of the inadequacy of the answers offered by this model of medicine are the growing dissatisfaction of the population and of the professionals. Medical care has become fragmented, depersonalized and discontinuous, with increasing costs, with a festival of technology and molecules of doubtful utility, increased conflicts between patients and the health team, and the feeling of helplessness, low valuation of their task and defensive attitude of doctors towards patients and the worrying increase in the judicialization of conflicts. It is also a sign the proliferation of alternative
medicines, shamans, magic solutions and charlatans to which people go at the same time as official medicine in a kind of utilitarian syncretism that denounces the lack of confidence in the model.

Health is a fundamental right of the human being and, Health Systems and many governments, are not guaranteeing it. As a result of this, a reform of the Health Systems has been demanded for a long time, but the attempts of change have been based on economist based ideas limited to the health sector, so they have not been successful in achieving equity, accessibility and justice, that must characterize a Health System and, in many cases, these reforms have only aggravated the situation.

Any reform of a Health System must be initiated from an ethical perspective, with clearly formulated political principles and must include the Society as a whole to achieve a sustainable change. Any reform of a Health System must consider and include the political and economic aspects inherent in the field of health.

Quaternary prevention began as a response to the excesses of medicalization, disease mongering, the transformation of risk factors into diseases, overdiagnosis, etc. The search was oriented from a scientific perspective but, after thirty years, we see that these arguments, although solid and necessary, are not enough because the nature of the dispute is different, it is economic and political.

Quaternary prevention has understood that deep causes far exceed the limits of medicine, has understood that the problem includes ethical, political, economical and conceptual views of science and medicine. It is for this reason that the definition of Quaternary prevention has overcome the initial definition centered on a biomedical vision. Quaternary prevention has understood that a new model of medicine and a new pact with society is necessary.

Quaternary prevention is a movement that promotes a change in the way of being and practice medicine starting with the ethical and philosophical aspects in order to protect patients and members of the health team from the excesses of medicalization and the excessive desire of profit of some actors.

In that sense, in the Declaration of Rio21 we have postulated a model characterized by being:

- Inclusive
- Non-reductionist, integral and integrated.
- That tolerates uncertainty.
- That it implies the human, social and political dimensions.
- To avoid and denounce the naturalization of: hunger, exclusion, manipulation, inequality, violence, racism, exploitation, which harms health more than diseases.

Quaternary prevention is a movement26 that seeks to refund the ethical values of medicine so that it becomes an activity for humans exerted by humans and in contact with life. The quaternary prevention does not intend certainties. There is no safe arrival point, there is no predetermined route, there are no guarantees, the only thing we know is that we are building utopias.

References

34. Visentin G. The difficult choice of "not doing": comment on "Quaternary prevention, an answer of family doctors to overmedicalization". International journal of health policy and management. 2015;4(8):559.
45. Widmer D. Care and do not harm: Possible misunderstandings with quaternary prevention (P4): comment on “Quaternary prevention, an answer of family doctors to overmedicalization”. International journal of health policy and management. 2015;4(8):561.
47. Malin JL. Wrestling with the high price of cancer care: should we control costs by individuals’ ability to pay or society’s willingness to pay?: American Society of Clinical Oncology; 2010.
Ethical, pedagogical, socio-political and anthropological implications of quaternary prevention


63. Pluye P, Hong QN. Combining the power of stories and the power of numbers: mixed methods research and mixed studies reviews. Annual review of public health. 2014;35.


