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## **Elements of chaos theory and 'Quantum Biophysical Semeiotics'**

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### ABSTRACT

*'Quantum Biophysical Semeiotics'* - QBS, extension of classical semeiotics, discipline of medicine that studies and interprets the signals of the human body in order to discover and diagnose diseases, develops in a multidisciplinary approach that involves chemistry and biology, genetics and neuroscience, chaos theory and quantum physics. It is based on the method of auscultatory percussion, through which by simple means of the common stethoscope, is possible to listen to the messages that the body gives us when appropriately stimulated.

In order to understand the meaning and importance of deterministic chaos for the QBS, are here explained the basics and the fundamentals of chaos theory, focusing in particular on two concepts that must be part of the theoretical and cultural background of each doctor who is able to implement this new semeiotics for the prevention, diagnosis and treatment of more serious diseases such as cancer, diabetes and heart diseases: the fractal dimension and the strange attractor.

Auscultatory percussion of the stomach has the function to induce a consistent behavior, typical of dissipative systems far from equilibrium as defined by Prigogine, in precise, well-defined biological systems of the human body, such as investigating the microcirculation in order to obtain information on how is functioning its parenchyma, giving in this way local qualitative information on the state of health or disease, both just potential, in developing phase but not yet evident and possible to reveal through clinical trials, or even effective and in chronic phase.

QBS provides a very detailed case studies based on the duration, intensity and latency time of reflections, which are the central element of all the diagnostics, and on the basis of which it is possible to say that the presence of deterministic chaos, as measured by the fractal dimension value, is an indicator of physiological state of the system (or systems) biology investigated, so as to adopt and effective primary prevention and appropriate therapies.

The deterministic chaos is closely related with the quantum feature of QBS, corroborating on this basis the new school of thought of the 'Quantum Chaotic Determinism', linked to a potential causality, where the free will plays a key role, as witnessed by the 'Manuel Story'.

