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EDITORIAL

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THE FIRST 1000 ATOMS IN HEALING PROCESS: FROM NANOTECHNOLOGY TO NANOMEDICINE

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This editorial paper of December issue 2018 in International Journal of Health Medicine and Current Research (IJHMCR) is to focus on a great achievement of the first international journal in North Maluku and Maluku province consisted of ~1740 small islands (~ area of 2000 km² for each island) including ~5 big islands (much larger than 2000 km²) among them due to its over 2 years consistency in developing multidisciplinary research in science, technology and health medicine. The idea of the first 1000 atoms healing system was based on the ongoing understanding of nanotechnology and human being particularly in their first 1000 days of life. **Figure 1** describes the general picture on how to carry out such marvelous works involving quantum mechanics theory and its experiment as well as the classical physics and chemistry of molecules up to bulk materials. Based on the dramatically development of nanoscience and nanotechnology particularly on its frontier research, the thoughtful understanding of 100 to 1000 atoms system is obviously described both theoretically and experimentally [1] such as nanobattery system [2], and herbal molecular medicines [3,4] because of their size dependence physical properties. While the smaller physical and biological systems with sizes less than 100 atoms

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are under the atomic chip structures with quantum mechanics characters. It is interesting to point out that the human DNA or the smallest cell in the body is in nm size and its behavior is just like a living nanofiber comparable to a nanomedicine system as described shortly in Ref. [5,6] with an incredible interactions among others substances and cells. In Fig. 1, the first discovery of nanochip called as fullerene or bucky ball with 60 carbon atoms (C₆₀) invented by Richard Smalley, Robert F. Curl, and Harry Kroto, with the sharing chemistry nobel winner after 10 years invention in 1996 was based on the nature of ~1 nm chip with its 5 levels models working system inside it according to 4 coupled classical physics differential equation referring to the ground state, the first excited singlet and triplet states as well as the second excited triplet state, respectively [1,7]. As the rapid development of nanoscience and nanotechnology in multidisciplinary fields associated with physical and chemical laws, many exotics nanomaterial structures were discovered with various characters and their multitasking applications [1]. Recently, the ~36 years unsolved mystery of HIV retrovirus living inside human T Cell DNA with the size of over 1000 atoms has been healed using a herbal medicine called as love herbal [3]. Such healing process is under deep research [4]. These all findings suggest that by understanding the first 1000 atoms in healing process, one could solve the detail works from nanotechnology to nanomedicine investigation. Furthermore, based on this remarkable research investigation, one obtains a similarity of this working system in understanding the first 1000 days of human being as shortly depicted in Fig. 2. Such complex physical system could be grouped into 3 main points such as (i). Healthy mind, (ii). Good flesh, and (iii).

Excellent Spirit of God. Some of you may not believe in God, but we did trust in His supra-ratio and supra-natural existence in the whole universe. Figure 2 shows how the first 1000 days of human being starting from a sperm met an ovum in woman womb until the process of ~9 months woman pregnancy as well as the delivery of such healthy flesh baby and her growing until reaching the age of ~2.01 years on earth. By a deep understanding of this work, I believe many collaborative scientists as well as scientists-ordinary people cooperation can improve the human relationship and their environmental protecting system. Such conceptual knowledge is based on the explanation on how nanomedicine research was developed from nanotechnology knowledge and understanding [1-7]. Moreover, in nanoparticles system and its complex attached with either small molecules or polymer matrix of hybrid system, the physical chemistry and chemical physics properties are closely associated with the following 6 physical parameters: (a). Confinement effect due to size and shape of a structure; (b). Density of states linked with its dimensions of 0D, 1D, 2D and 3D; (c). O-H chemical bonding and its links with its collaborators in a big molecule including nm size of DNA/ RNA; (d). Structure mechanical flexibility; (e). Functional group types and its orientation; and (f). Dispersion force, π -aromatic stacking, and hydrophobic effect [1]. The incredible understanding in physical advanced science guides a novel understanding in multitasking system of the first 1000 days of human life as depicted in Fig. 2. From the size of the first 1 month baby until the 9th month as well as a new born baby up to 33.3 months age of first human being on earth describes a deep understanding of human first 1000 days characters. These descriptions are applicable in nanomedicine system as explained in Ref. [3-6].

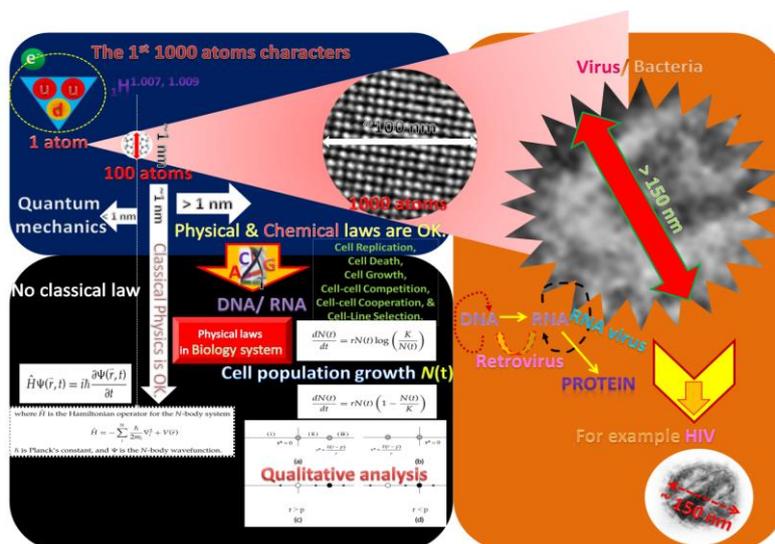


Figure 1. A main explanation of the first 1000 atoms in healing process: picture and a brief explanation.

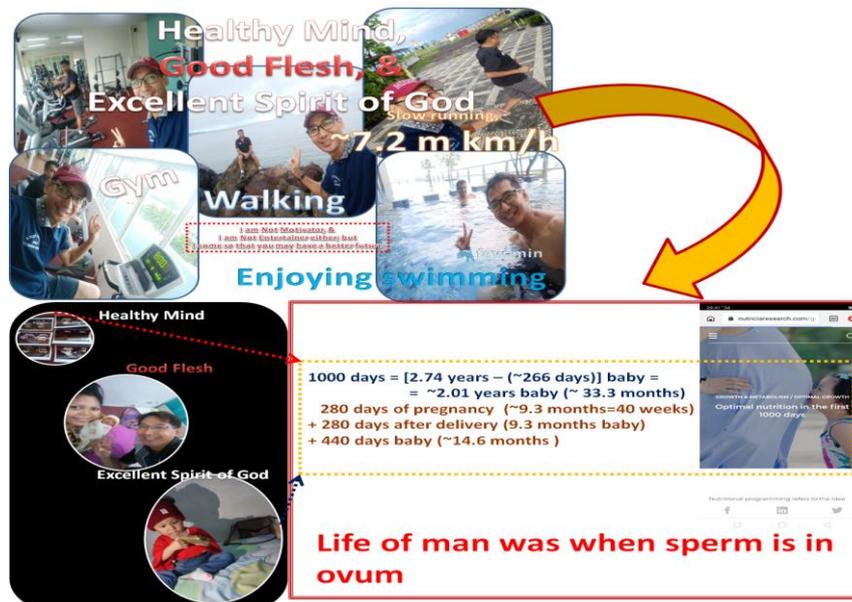


Figure 2. The illustration of first 1000 days of human being: similarity in nanotechnology Knowledge: “size dependence on characters”.

In conclusion, the first 1000 Atoms in healing process as shortly described from nanotechnology understanding to nanomedicine knowledge is a beginning of creative research in order to develop a multitasking future healing system based on target-wound/ cancer nanomedicine curing organization in human body. Furthermore, the size and shape nanomedicine structure could be fabricated in such a way so that healing system in human body is effective and with a less time of curing properties.

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