

The Lowest Common Denominator of Diseases

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Abstract: *If we can find the lowest common denominator for diseases, it will ease understanding the human body. It will also help predictability and curing diseases. In this paper an attempt is made.*

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The most important and central frontier in medicine is to find a fundamental principle as lowest common denominator for diseases, since finding one common cause for most diseases, will help predictability and curing of diseases. It is estimated that over 10.000 diseases exist in the world and then a basic principle would ease understanding them.

In this paper an attempt is made to find one common cause for most diseases, based on The Principle of Relations.¹

A simplified version is presented.

The principle is based on these two stipulated postulates:

- 1) Nothing exists in isolation; everything exists in relations.
- 2) Every concept has to represent reality directly and concretely.

The concept relation relates to reality by showing that there are relations between all parts in the human body², where:

- 1) a, b, c ... are any system, subsystem, unit, part in any field of the human body, e.g. organs, cells, organelles, nuclei, atoms and molecules.
- 2) The relation R is a flow of packages, p_{1-n}, e.g. neutrons, electrons, photons, proteins, fats, polysaccharides between a, b, c ... in any part of the human body, illustrated by this basic model:



Based on the postulate - Nothing exists in isolation; everything exists in relations - in combination with 1 and 2 above, the principle is

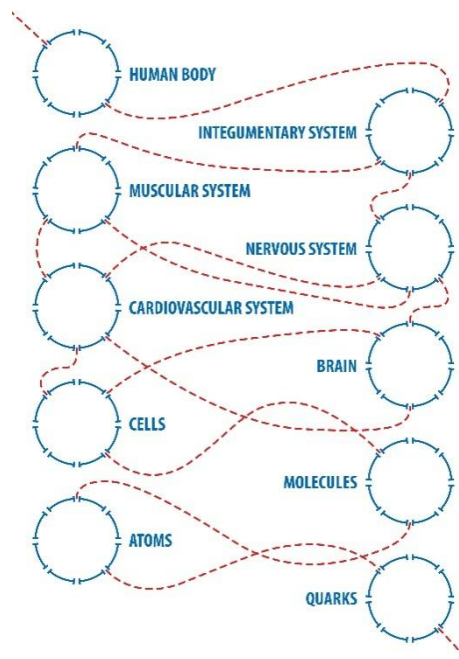
$X = aRb$, where X is inflammation and disease³.

Between all systems and between all parts of any system, S, within the human body, there are continuous flows of packages p_{1-n}, i.e., $R = p_{1-n}$. The formula will be found this $S = ap_{1-n}b$

R contains p_{1-n} and the function of R is: $R = \sum p_{1-n} = p_1 + p_2 + p_3 \dots p_n$

This content will over time change any structure a, b, c in the human body, from the lowest element in the cells to relations between subsystems. Within the body there is complex R_{1-n}.

This is the model of the Human Body, based on the postulate, *nothing exists in isolation; and everything exists in relations:*



The system of the human body consists of flows of packages between different subsystems, i.e., integumentary system, S_i, skeletal system, S_s, muscular system, S_m, nervous system, S_n, endocrine system, S_e, cardiovascular system, S_c, lymphatic system, S_l, respiratory system, S_r, digestive system, S_d, urinary system, S_u and reproductive system, S_{re}.

If S_H stands for the system of the human body, then

$S_H = (aRb)^{-\infty}$ consists of S_i, S_s, S_m, S_c, S_l, S_r, S_d, S_u, S_{re}, S_n and S_e, where each S₁₋₁₁ has its own system of R₁₋₁₀.
 $S_H = (aRb)^{-\infty} = S_i R_1 S_m R_2 S_c R_3 S_l R_4 S_r R_5 S_d R_6 S_u R_7 S_{re} R_8 S_n R_9 S_e R_{10} S_s$

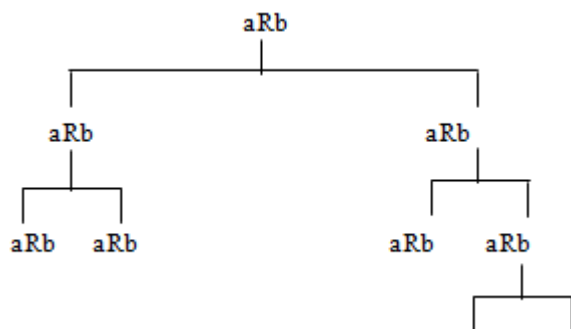
Based on the postulates and the Principle X = aRb, we can look into the System of the Human Body.

With the language of the principle of relation we can summarize the system, S, for the human body, H, as

$$S_H = (aRb)^{-\infty}$$

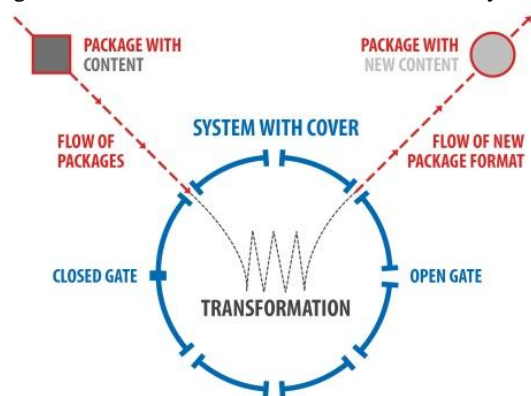
The flow of packages will over time change each of a, b, R and aRb. At t₁ the structure and its contents have one appearance and at t₂ the structure and its contents have another appearance.

When we apply the principle to the human body, the hierarchy of flows can be illustrated as below:

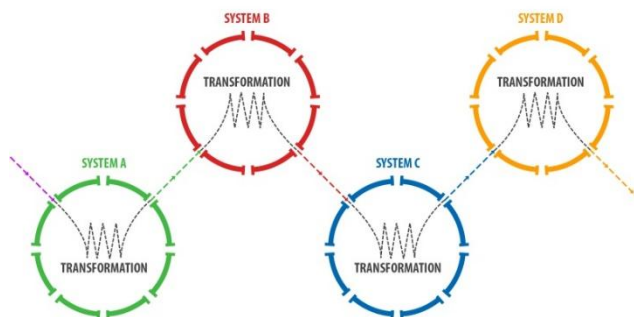


When any superior aRb is damaged it will affect related aRb. If any superior aRb collapse, most aRb related will collapse as well.

For each system there are gates, i.e., the transformation mechanism by the transformer, where the content of the packages is transformed for the next level of reality.



The big challenge is now to identify all the p in all relations and to identify, directly and concretely, the logic of the equation $S_1 = (a_1R_1b_1) R_2 (a_2R_3b_2)$ and illustrated as such:



The size and volume for any system regulate the flows in and out of any system⁴. When packages leave any system, new packages will come in, i.e., they are needed, since nature abhors vacuum.

Then the hypothesis is that damaged flow dominates causing inflammation, while chronic inflammation causes disease. If damaged flows continue not being repaired, disease will be chronic.

When any R is broken or damaged, there will be disorders and diseases, e.g. cancer, AV-block III, Stroke, Alzheimer's and cardiac infarction.

The lowest common denominator for diseases is damaged flow.⁵

Some examples of $X = aRb$:

- 1) $X =$ Stroke. When an artery is blocked, the blood supply of oxygen cannot reach the brain's tissues and cells will die, with symptoms such as face drooping and speech difficulties.
- 2) $X =$ Diplopia, i.e., double vision. When thrombosis in the brain stem damages the flow of blood and draining blood from the brain, visual symptoms such as diplopia will occur.
- 3) $X =$ AV-block III. When the relation between the SA node, i.e., the sinoatrial node, and the AV node, i.e., the atrioventricular node, is blocked and the pathway has no communication, AV-block III will occur.
- 4) $X =$ Heart infarct. When the blood flow in the heart is blocked, lack of oxygen will cause such as chest pain, shortness of breath and vomiting.
- 5) $X =$ Cancer. When any network of tubules is damaged, it will cause cancer.
- 6) $X =$ Testicle cancer. Efferent ducts connect the rete testis and its network of tubules carrying sperm from the seminiferous tubules. Anastomosis connects different parts in the testicle when it is normal. If the network becomes damaged, i.e., blocked, cancer will occur.
- 7) $X =$ Neurodegenerative disease, e.g. ALS, MS, Parkinson's and Alzheimer's disease. Now we have to find out how damaged microtubules of aRb can give some insights in these diseases; i.e., how damaged flow can be the cause. Can repair of the axonal transport system cure these diseases? How will a change in the anterograde transport affect these diseases? Can the Tau protein repair the damage?
- 8) $X =$ Alzheimer's Disease. When microtubules are damaged and cannot perform intracellular transport of material, huge amount of amyloid beta will be crowded outside the cell and neurofibrillary tangles of tau proteins will occur inside the cell.
- 9) $X =$ Rheumatism. When immune cells cannot find the correct pathway for killing pathogens and instead attacks joint tissues synovial membrane, i.e., the so-called autoimmunity. Can antiserum cure?
- 10) $X =$ Mental illness. The structure of the human psyche, b , is affected by R , from a . When R is damaged, the psyche will develop diseases such as schizophrenia or suicidal behaviour. Isolation and desolation, i.e., damaged R , is often the reason for diseases of the psyche, based on the postulate.
- 11) $X =$ Suicide. When relations towards other persons are damaged and do not exist, suicide can happen.

- 12) X = ADHD, Attention-Deficit/Hyperactivity Disorder.
It is the society and the relations in the societal network that cause ADHD, via damage in the brain's neurotransmitter system. Flows of packages are essential for normal functioning in any system and when flows of packages of dopamine and norepinephrine in the brain's pathways are damaged, ADHD will occur.
- 13) X = Schizophrenia. When the brain's pathways are damaged, it can cause schizophrenia. The damage can result from childhood family situation.
- 14) X = Consciousness. Consciousness is the result of the flow of packages which occur from objects outside the human, but it can also occur from objects inside the human, such as body pain and dreams. These packages constitute the memory, which is the consequence of the same molecular movements over and over again, until there is a pattern in the brain, which will be triggered by the same stimuli of objects. The structure and pattern of the memory is a continuous flow of packages. It will only change by the arrival of new packages, depending on how strongly the pattern has been established. In the worst case, when a mental disorder has come up, it is possible to make the brain healthy again by using an intense flow of alternative packages. Consciousness is then a combination of memory patterns of flows of packages and the flow of packages from outside objects, i.e., consciousness is a flow of thoughts in real time.
- 15) X = Emotions. When it comes to feelings, emotions and words like love, the content, in concrete concepts, is not that easy to understand. However there is a chemistry of love, where testosterone and oestrogen, dopamine and serotonin are involved, combined with our sense of smell. That is why we need to start at the level of the consequences of a lack of R in these relations.

To be continued ...

Notes

- 1) The theory was first published by Cambridge Scholars Publishing: *The Principle of Relations*. 2018. The theory has been developed in the book *The Theoretical Foundation of Physical Reality*, authorHOUSE, 2020. Then the book *Reality and the Paradigm of Relations* was published 2021 by Nova Science Publisher in New York.
- 2) Abstract of *The Theoretical Foundation of Medicine* (ijsr.net) and *The Theoretical Foundation of Medicine* (ijsr.net)
- 3) What is Inflammation? (ijsr.net)
- 4) How Mass Moves in the Human Body (ijsr.net)
- 5) The Scientific Illusion of Homeostasis (ijsr.net)