INVESTIGATION OF ELECTROLYZED KAQUN WATER ON GROW OF HUMAN OVARIAN AND CERVIX CARCINOMA XENOGRAFTS IN SCID MICE

Author: Dr. Janos Hunyadi
Department Debrecen, Hungary. National Institute of Oncology, Budapest, Hungary
Presenting Author: Dr. Michela Marinato

Introduction
Kaqun technology results a special matrix modified hydrogen depleted- thus oxygen enriched water in which oxygen is present in a stable form with a concentration of 18-25 mg/l. In the present study the author investigated the influence of Kaqun water consumption on the in vivo intake, and growth-kinetic of human tumor-cells in SCID mice xenografts.

Material and methods
Xenotransplantation of:
- Human ovarian ca cells A2780
- Human cervical ca cells KB-3-1

Results
- Xenotransplantation of 4 x 10^6 KB-3-1 tumor-cells, resulted tumor grows in all control and Kaqun water consuming animals.
- In the 2 x 10^6 KB-3-1 tumor-cell transplanted group the tumors-grow decreased when mice started the Kaqun water consumption 14 days before cervix carcinoma cell transplantation.
- Xenotransplantation of 4 x 10^6 A2780 tumor-cells, resulted grows of tumors in all control and Kaqun water consuming animals.
- In the 2 x 10^6 A2780 tumor-cell transplantation was not detected at 3 of 14 mice in the Kaqun treated group.

Tumor histopathology
Xenotransplanted tumors of 4 x 10^6 KB-3-1 showed high mitotic activity in the cervix carcinomas of control mice (Fig 1), while high number of apoptotic, damaged cells was detectable in xenografts of Kaqun treated animals (Fig 2).

Conclusion
In the Kaqun water - consuming groups:
- Decreased growth kinetics
- Decreased rate of tumor engraftment
- Lower frequency of death
- Tendency of tumor regression

might be consequences of water matrix modification caused in the mice by the consumption of the specially matrix - modified Kaqun water

Discussion
Recent investigations suggest that oxygen depletion activates signaling pathways, such as HIF1, that promote cancer cell survival and tumor growth. Insights into mechanisms involved in ROS signaling may offer new ways to facilitate discovery of cancer-specific therapies [1].

Based on clinical investigations, it is supposed that drinking of Kaqun water and bathing in it results the strengthens the immune system, triggers the regeneration of the body, reduces hypoxia in the body, can improve micro-circulation, can impact favorably the metabolic processes on the level of cells and can intensify the effect of the chemo and irradiation therapies and moderate their side-effects.

From his Nobel Lecture...
'Cancer, above all other diseases, has countless secondary causes. But, even for cancer, there is only one prime cause. Summarized in a few words, the prime cause of cancer is the replacement of the respiration of oxygen in normal body cells by a fermentation of sugar...

Drinking Kaqun water increase the tissue pO2 level within 4-5 minutes.

The short time needed for increase of pO2 suggests that the involvement of Grothius mechanism of proton conduction [4], aquaporins and glomicidin-like ion channels, present in the gastrointestinal tract, in the cell membranes and in the mitochondria (to perform oxidative fosforidation [5,6]), may be the main determinants of the mode of action of waters made by special electrolysis as Kaqun water.

What do we know about KAQUN water?
- KAQUN has high stable Oxygen content
- Clustered Oxygen reaches and enters cancer cells without hemoglobin contribution
- KAQUN triggers redox reactions in seconds as a proof of mitochondrial activity
- KAQUN triggers apoptosis as a proof of increased cell energy level and increased membrane potential
- KAQUN triggers cell survival as a proof of mitochondrial activity

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Background of KAQUN actions Mitochondria

References: