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SEP VARIATIONS ON SUBJECTS WITH CHRONIC CONSTIPATION IN HYDROPINIC TREATMENT

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What we did

In the Centro Sillene, a spa in Chianciano Terme, Italy, we measured SEP (Skin Electric Parameters) in subjects with chronic constipation, before and after administration of Acqua Fucoli, a rich mineral water (fixed residue 2690 mg/l, bicarbonate 425 mg/l, sulphate 1560 mg/l, calcium 647 mg/l, magnesium 79.5 mg/l) .

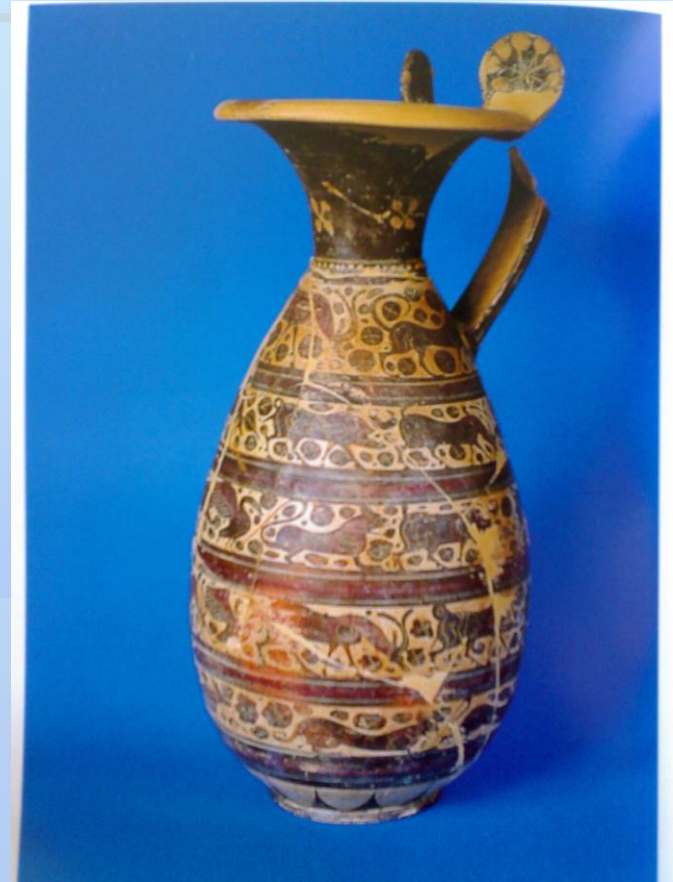
Chianciano Terme Spa

Centro Sillene is a spa in Chianciano Terme, in Tuscany, Italy, where from several decades many people affected by chronic constipation and liver diseases go to do mud bath and drink mineral water.



The Origins

The use of the waters in this zone had its beginnings in antiquity. Etruscans and Romans already utilized Acqua Santa, Sillene and Fucoli waters, and built temples and luxurious thermal buildings in the area.



The Middle Ages

The fall of the Roman Empire determined a progressive involution of medical art into magical-religious forms, but the waters of Chianciano continued to be used and venerated.

The Lombards knew of their therapeutic properties and knew how to exploit them; the people continued to have faith, even without an instruction in this regard, in the curative powers of the waters.

During the low middle ages the study of medicine and, with it, hydrology, was inaugurated at the university.

The Renaissance

It was during the Renaissance, with the new unified concept of the body and spirit expressed by Humanism, that the bath became a symbol of hygiene and health, but also of pleasure and purification.

The usefulness of the waters was identified in the quantity, temperature and the movement, that were capable of expelling malignant humours from the body.



The Twentieth Century

The great development of Chianciano's mineral water therapy activity began in 1915, when the Commune decided to hand over the management of the waters to the "Società delle Terme di Chianciano".



Chianciano "healthy liver"

Thanks to the managing class, to the always more numerous scientific publication that spreaded the results of the treatments and to the choice of focusing, from the promotional point of view, on the mineral water-therapy-specialization, and on the treatment of hepatic disorders- that, at the end of the Forties, was to create the slogan "Chianciano, healthy liver"- the fame of Chianciano grew rapidly in the following years.

The therapy at Chianciano

Nowadays, Chianciano 's therapy includes:

- Mud and bath for osteoartosis, (Sillene water);
- Aerosols and inhalation for respiratory diseases (Acqua Santissima);
- Carbo-gaseous bath for circulation's diseases (Sillene water);
- Mineral water and mud for hepatic disorders (Acqua Santa water);
- Mineral water for chronic constipation (Fucoli water)

First results in Centro Sillene

We measured SEP (Skin Electric Parameters) in subjects with chronic constipation, before and after administration of Acqua Fucoli, a rich mineral water (fixed residue 2690 mg/l, bicarbonate 425 mg/l, sulphate 1560 mg/l, calcium 647 mg/l, magnesium 79.5 mg/l). This water reduces gastric and duodenal inflammation, modulates intestine motility and secretion, increases liver and gall bladder activity and has diuretic effects too.

The Ohm Law in Therapy

Measures highlighted that, in subjects with constipation, the electrical resistance increased in physical electric circuits, with a medium of about 43 scale unites of Sep, that corrispond at 130.000Ω .

After administration of Fucoli water we saw a resistance fall, in medium at 39.000Ω (70 us), with an improvement of bioelectric performance due to an increase of physical electric currents, in accordance with the Ohm's law, $I = V/R$

US scale and OHM

24 us corrisponde a 300.000 Ohm (300 KΩ)

32 us ■ US corrisponde a 200.000 Ohm (200 KΩ)

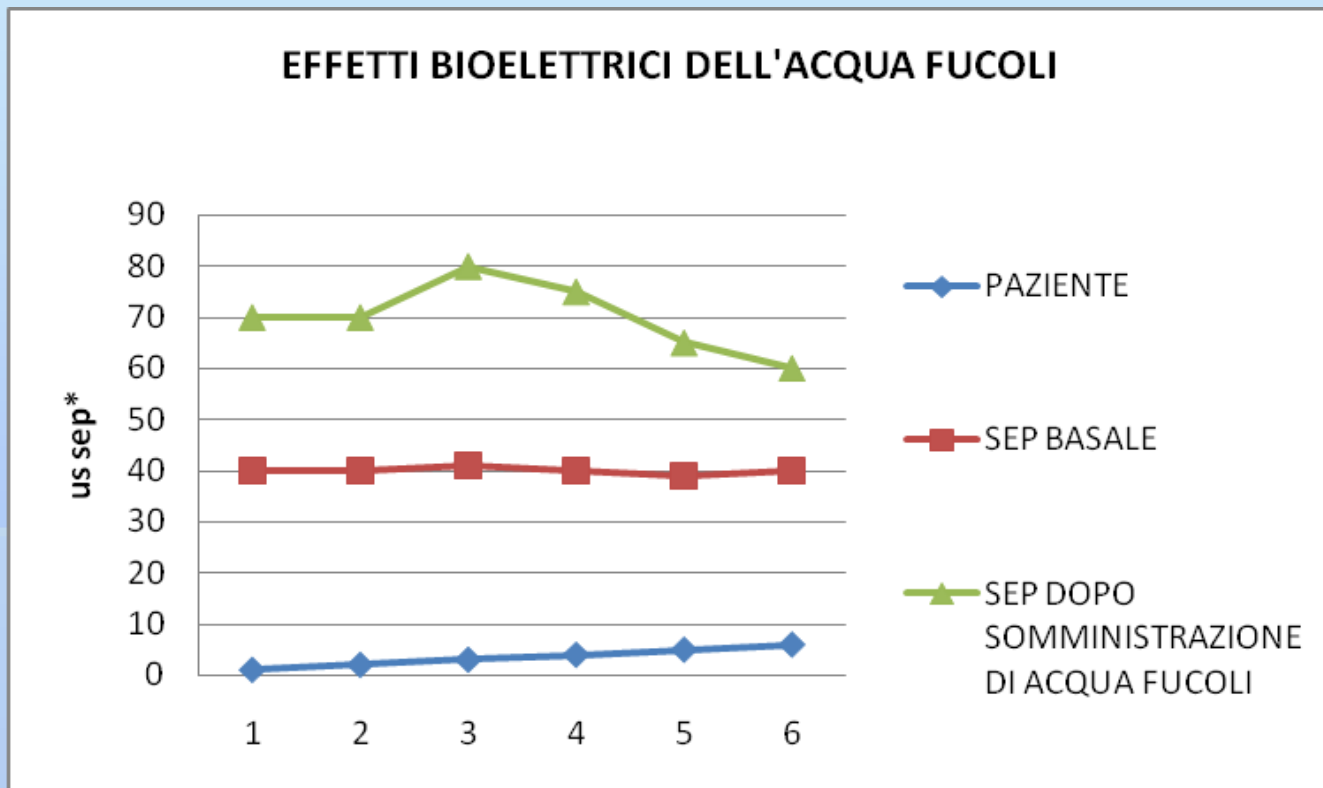
43 us corrisponde a 130.000 Ohm (130 KΩ)

49 us corrisponde a 100.000 Ohm (100 KΩ)

50 us corrisponde a 95.000 Ohm (95 KΩ)

62 us corrisponde a 63.000 Ohm (63 KΩ)

Some bioelectrical data



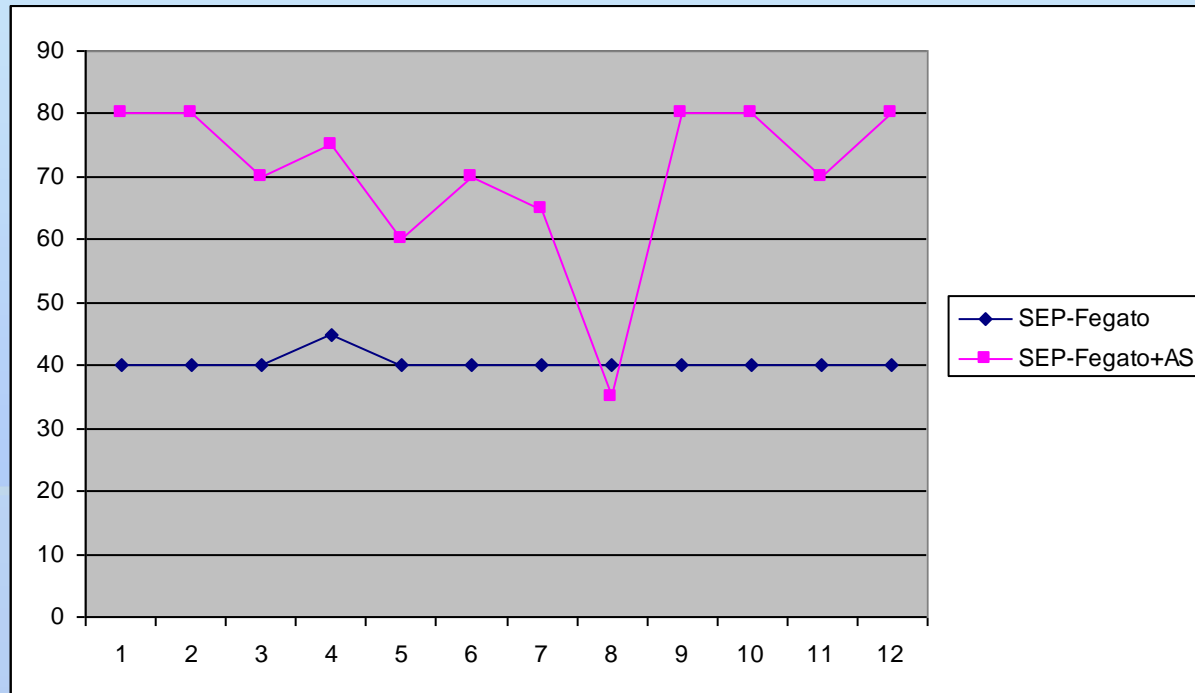
A case of resistance

We had one patient, an old woman, who had drunk *Acquasanta* every year from twenty years, that had a sudden and rebel constipation.

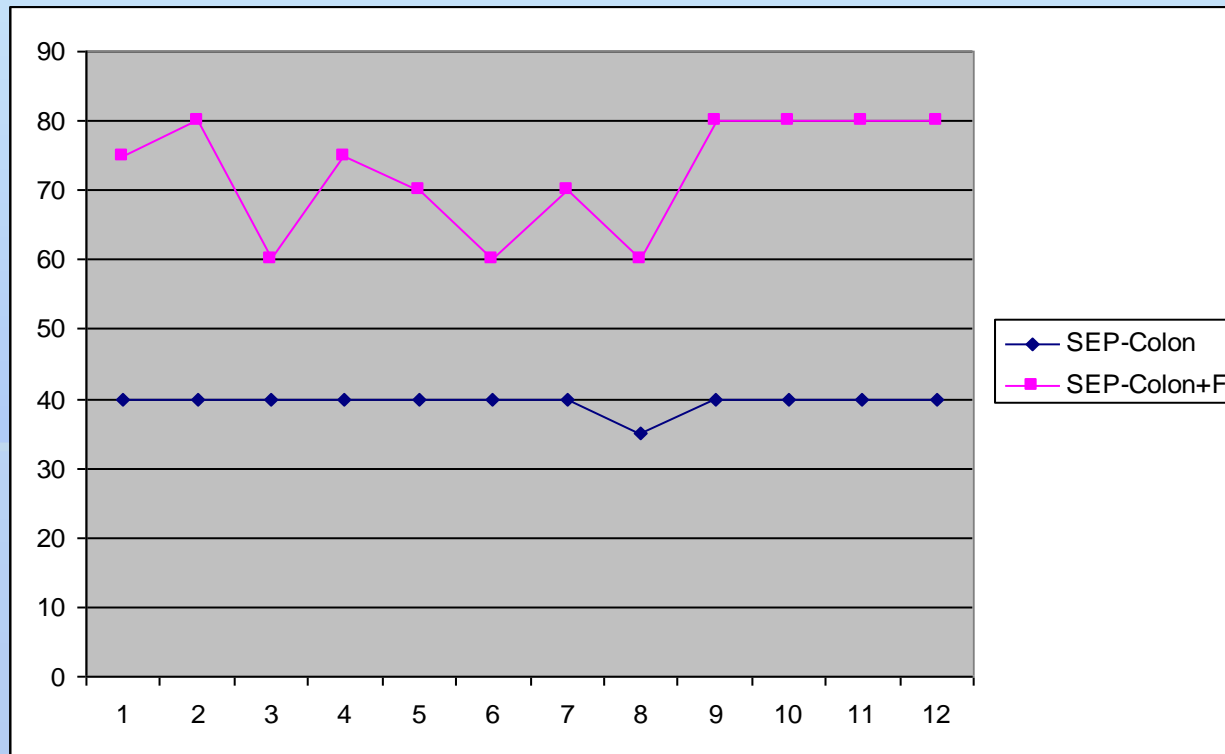
She tried to solve the problem with laxatives, enemas and hydrocolontherapy too, but she had no results.



"Acqua Santa" Water case of resistance (8)



Fucoli Water solves rebel constipation patient 8



Some reflexions



- It seems found a new mechanism for the thermal therapy based on Bioelectrical variations.
- It seems possible to drive the hydropinic therapy with the SEP variations.
- New theoretical and experimental study are necessary to develop SEP Method.

A NEW LINE OF RESEARCH FOR MINERAL AND THERMAL WATERS?

- In a varied range of waters, from a few milligrams to over 3 grams of salts, with a variety of mineral salts and biologically active molecules, we must go beyond the idea that waters are more or less the same and develop new methodologies for personalizing the use of water, in their dynamism in interaction with our digestive and metabolic system.

A scenic view of a beach with waves crashing on the shore under a blue sky with scattered clouds. The text "Thanks for your attention!" is overlaid in the center.

Thanks for your attention!