Hystorical Issue
The history of medicine, from Ippocrate to later, teaches that Galeno usually sent respiratory sick patients to the sea. During the nineteen century, the climate therapy has been one of the milestone of therapy and rehabilitation from sickness, using climate of Lake, Desert, Hill ecc. In particular, for tuberculosis care based on sanatorium centres for climate therapy.

The rise of antibiotic therapy implied the disappearing of this kind of therapy in Italy, but not in France where the climate therapy “le climatisme” continues till today to maintain a large scientific presence and effectiveness and, in turn, remains one of the modern instrument and tools of the therapeutic media for the care of respiratory and allergic illness. In the case of tuberculosis, the antibiotics show new resistance and climatisme come back actual in the therapy of the great disease as showed in recent work by Kiev School of Berezovsky of Physiological Institute of Academy of Science of Ukraine.

Many researchs show also that critical vascular events occur in the frame of weather perturbations with variations of air ionizations (Ciammaichella, Avino, Scalia et al. to Coherence 2013 http://goo.gl/I2Yxbk and related articles and books) as confirmed by a lot of observations in emergency area in Florence.

Quantum chemistry approach to meteoropaties
The new mechanisms for metheoropaties proposed is mainly based upon the results of studies on meteoropathies with SEP (Skin Effect Parameters ) calles in former Sovietic Union BAP (Biological Active Point ) that could be based on measure the Ohm resistance in the chinese meridians seen as circuits to variable resistance. On these circuits, em signal extern and intern to body, or quantum field, could be able to induce relevant modification of electric resistance as observed in some research on Meteoropathies in Spa Medicine, in pharmacoeletrodynamics ecc.

It seems indeed that the Ohm Law, em signal and quantum field could have a key role in general phisiopathology. Measures on meridians highlighted in subjects with meteoropathies and various pathologies show that the electrical resistance increased in physical electric circuits with a medium of about 43 scale unites of SEP corresponding to 130,000 Ω.

“Normal” level of resistance is 95,000 Ohm =50 μs
Power in the biological system varies with \( W = V \times I \), as in every electrical system, with functional correlations (performance status, immunological status, muscle power, pain, inflammation, allergy, dyspnea, etc.) and therapeutical correlation in the sense that the increase of bioelectrical power is strongly due to therapeutical effect of therapy. In this way, it is more clear the effect of SPA therapy, of drug therapy and its choosing on the basis of the coherent effect of quantum signal of drug mediated by vector potential in the Bohm Aranov effect (see Trukan, Preparata, Widom Srivastava etc.).

**Chronic Diseases by air pollution. The role of climatotherapy**

Chronic Obstructive Pulmonary Diseases (COPDs) constitute a social problem of widespread interest. These diseases increase slowly and constantly. Air pollution and its impact on public health continually re-propose certain absolute priorities, such as the pin-pointing of strategies to control the pollution sources, the planning of observational studies and the epidemic control.

- In 2010, WHO estimated >6 million people die prematurely every year because of air pollution.
- In 2012 the estimated numbers are about 7 million deaths as a result of (indoor and outdoor) air pollution.
- Few controlled human exposure studies that can provide irrefutable evidence of adverse effects after acute exposure to an individual pollutant.
- Difficulty to understand the mechanisms and the role of different pollutants in respiratory morbidity.

Some works shows that a climate marked by always windy weather and low humidity and with low chemical pollutant concentrations (Pietracupa; Molise, Italy) is connected to smaller prevalence of COPDs in comparison with big cities like Rome. Analogous results are referred with Briançon, Carpazy in comparison with big City of Europe (Bruxelles, Paris, Kiev, London, ecc.).

Living in non-polluted areas, the benefits of a healthy climate in terms of an improvement in breathing and bronchial hyperactivity reduction, may only in part be backed up by epidemic evidence; however, they are a solid base on which to build definite research projects which can effectively validate it even from an experimental point of view supported by statistics and basic research on cells, immune-systems ecc.

The possible mechanism seems connected to thermal and igrometric influence, to chemical pollution, oxygen concentration, altitude, solar radiation, Moon influence, chronobiological influence and also to air ionization, and gravitationals influences, that meet difficult in measures. (sub projects will be...
When ionization was measured in Pietracupa give some clear indication about the ions negative therapeutic role that could be able to explain some strong therapeutical actions of climate in this mountain area of Mediosannio Molise, as referred by some researchers and many people with chronic pain in artrosis subjects and in fibromialgies patients, that was resistant to current therapy in Rome, with clear improvement of performance status.

In the frame of research carried by Biometorological Laboratory of CSB, in collaboration with ISPESL of Rome and Campobasso we observe also the high quality of air in the evaluation of chemical pollution so we think to propose this area as area of Bianco ambiente (white environment) in comparison with polluted urban area where a lot of health disorder seems connected to air pollution.

<table>
<thead>
<tr>
<th>Pollutant</th>
<th>Sources:</th>
<th>Acceptable level</th>
<th>Attention level</th>
<th>Alarm level</th>
<th>Effects on health</th>
</tr>
</thead>
<tbody>
<tr>
<td>SO₂</td>
<td>Oil and petroleum combustion</td>
<td>100 μg/m³ (24-hrs average)</td>
<td>250 μg/m³ (24-hrs average)</td>
<td>600 μg/m³ (hourly average)</td>
<td>Increasing or mortality, increasing of hospitalization for respiratory treatment</td>
</tr>
<tr>
<td>NO₂</td>
<td>Autovehicular traffic and combustion plant</td>
<td>135 μg/m³ (hourly average)</td>
<td>200 μg/m³ (hourly average)</td>
<td>400 μg/m³ (hourly average)</td>
<td>Increasing or mortality, increasing of hospitalization for respiratory treatment and asthma</td>
</tr>
<tr>
<td>CO</td>
<td>Autovehicular traffic and petroleum combustion</td>
<td>10 mg/m³ (8-hrs average)</td>
<td>30 mg/m³ (hourly average)</td>
<td>Increase of mortality, increasing of respiratory and cardiovascular diseases</td>
<td></td>
</tr>
<tr>
<td>Ozone</td>
<td>Photochemical reactions</td>
<td>150 μg/m³ (hourly average)</td>
<td>180 μg/m³ (hourly average)</td>
<td>360 μg/m³ (hourly average)</td>
<td>Increasing or mortality, increasing of hospitalization for respiratory treatment</td>
</tr>
<tr>
<td>PM10</td>
<td>Autovehicular traffic</td>
<td>40 μg/m³ (hourly average)</td>
<td>Increase of mortality, especially for respiratory diseases</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
In Biomet Lab in Pietracupa (CB) we measure very low concentration of main chemical compound and we can think (under verifications) that these areas of Appennins and same areas in others mountains on the Alpes, Carpazy etc could be used as Health zone, to care air pollutions diseases from urban areas as experimented also in Briançon with the climatic school for allegeric childrens (to acariens in particulary) and adultes with severe BPCO.

Some data on respiratory diseases in the world

- 300 million people suffer from asthma conditions.
  - 5 to 7 % are adults
  - 7 to 9 % children of 6-7 years old (ISAAC)
  - 10 to 15 % young adults 13-14 years old (ISAAC)

It's estimated that by 2025 there will be 400 million asthmatics

- Represents 1% of the world health expenses.
- The total cost of respiratory pathologies is (in the EC) 100 billion Euros/year.
  - (120 Euros per person per year).
- Asthma itself in the EC costs 20 billion Euros/year
  - Asthma is responsible for 250,000 deaths per year worldwide (mostly female adults)
    - (> 800 Euros per patient and per year).

In a few words we could conclude that:

1. the concentrations of chemical pollutants in the Pietracupa and in mountains areas are close to zero (“environmental white”).
2. In particular, we refer to the SO$_2$, NO, CO and particulate PM10 levels.
3. The amount of ozone measured at ground level, instead, is not lower than that recorded in the major Italian cities: this is the “good ozone”.
4. The absence of air pollution and the high levels of negative ions indicate Pietracupa and the Middle Sannio (400 -700 mt of altitutde) and the most part of mountain areas as being potentially ideal places in which to invest resources to implement a project on climatic therapy and reliance the economy of mountains areas with a new therapeutic tourism and Global Health Care for people with chronic disease by air pollution in big city.

Why is it important to restabilish therapeutic tourism in altitude

Several studies have been done in order to confirm the positive influence of “resting” in altitudes and its effect in children, adolescents and adults.
The majority of those, have been done in clinics located in the Alps, such as: Briançon, Davos, Misurina, and many observation in others localities in Appennines and Carpazien.
These studies have demonstrated the beneficial effects in asthmatic patients when staying in high altitudes, clearly showing a reduction in symptoms, less necessity of medication as well as a lower risk for being hospitalized.
Resolution of Briançon

In the 15 december in the office of CEMBREU “Centre Europeen Medical Bioclimatique de Recherches et d’Enseignement Universitaire” (FR) was held a meeting with objective the reliance of Mountain areas in Europe finalized to reequilibrium between Urban Areas (polluted and overpopulated and Mountain areas, natural reserve for Health protection abandoned in the rice versus big city).

In the Meeting participated by leading scientist from France, Ukraine Portugal, Italy and Switzerland, was analyzed and discussed prominent data by air pollution in big city and comparison with air quality in Mountain area (Briançon and Sannitic Apennine) that show critical difference that can explain some therapeutically effect of integrative therapy on respiratory diseases (asthma, allergy in child, COPD tuberculosis and others) in altitude as referred by Pedro Damata of Lisboa and Denis Charpin of Marsiglia University and Vadim Berezovsky from Kiev Academy of Science).

The great experience of Briançon starting in the early of last century, and relanced by the great work of Hassan Razzouk is a great scientific and Medical heritage for Briançon, the France and the Europe facing with emergenting urban diseases that collapse the health system and make weak productive capacity of Europe.

In this line Mr. Declan Kirrane of Intelligence in Science of Bruxelles give to meeting the direction to create a leading project for UE and WHO. This document wil be integrate with a White Book coordinated by Vadym Berezvski on Mountains Climatotherapy and a project of research (see annex draft form Pedro Damata and Denys Charpin), that will developed in Rome to end of September pv.


NB this is a second draft of ROME RESOLUTION that will delivery in the meeting of BIOMET SECTION OF CIRPS in the next meeting of 28 september in Rome 14.00 O’clock (definitive hour) All the colleagues that will sign it are invited to make all for improvement of the resolution with their contributes that are strongly request. The meeting will be held also by skip for colleagues by Kiev, Saratov, Tokio, Minneapolis, Creta, Abdjjan, Marsesille, Fontana Nuova ecc.

Thanks very much

From Sannitic Hills September 24, 2015

Vincenzo Valenzi

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