ANALYSIS PERFORMED WITHOUT BLOOD SAMPLE

According to law, venous blood sampling can only be collected by healthcare staff (doctors or nurses) and in safe and hygienic conditions.

As Bioelectronics ATC330 analysis are assessments of the condition of the human Cellular Terrain aiming at providing a scientific evaluation (with repeatability and reproducibility as measurement criteria) of the subject's energetic balance to improve their general well-being in a naturopathic and bio-energetical way, it appeared useful to allow also non-medical practitioners (pharmacists, biologists, physiotherapists, dieticians, psychologists, naturopaths, osteopaths, etc ...) to perform analysis with ATC330.

Therefore, directly from the ATC330 software, it is now possible to enable a function to perform Cellular Terrain analysis without needing to take the blood sample.

If blood sample is not collected, some results will not be obtained (compared to all results obtained using all body fluids (blood, saliva and urine)), but the processed ones will still be reliable or with acceptable errors.

In particular, the next table summarizes the main results obtained using the 3 body fluids and those obtained without considering the blood sample:

<table>
<thead>
<tr>
<th>Output</th>
<th>With Blood</th>
<th>Without Blood</th>
<th>Max Error</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Terrain Layout</td>
<td>✓</td>
<td>✓</td>
<td>15 %</td>
</tr>
<tr>
<td>Overall Responsive Level</td>
<td>✓</td>
<td></td>
<td>n.d.</td>
</tr>
<tr>
<td>Nutrients absorption Responsive Level</td>
<td>✓</td>
<td>✓</td>
<td>0 %</td>
</tr>
<tr>
<td>Excretory Responsive Level</td>
<td>✓</td>
<td>✓</td>
<td>0 %</td>
</tr>
<tr>
<td>Global-Mitochondrial Energetic Evaluation</td>
<td>✓</td>
<td>✓</td>
<td>15 %</td>
</tr>
<tr>
<td>Kidneys Energy</td>
<td>✓</td>
<td>✓</td>
<td>0 %</td>
</tr>
<tr>
<td>Liver and Lymphatic Energy</td>
<td>✓</td>
<td>✓</td>
<td>0 %</td>
</tr>
<tr>
<td>Digestive Energy and Absorption</td>
<td>✓</td>
<td>✓</td>
<td>0 %</td>
</tr>
<tr>
<td>Pancreatic Energy</td>
<td>✓</td>
<td></td>
<td>n.d.</td>
</tr>
<tr>
<td>Cardiovascular Energy</td>
<td>✓</td>
<td></td>
<td>n.d.</td>
</tr>
<tr>
<td>Bones energetic reserve</td>
<td>✓</td>
<td>✓</td>
<td>0 %</td>
</tr>
<tr>
<td>Nervous system energy</td>
<td>✓</td>
<td></td>
<td>n.d.</td>
</tr>
<tr>
<td>Emotional stress index</td>
<td>✓</td>
<td>✓</td>
<td>0 %</td>
</tr>
<tr>
<td>Electromog overload Index</td>
<td>✓</td>
<td>✓</td>
<td>0 %</td>
</tr>
<tr>
<td>Acidosis level Index</td>
<td>✓</td>
<td>✓</td>
<td>0 %</td>
</tr>
<tr>
<td>Oxidative Index</td>
<td>✓</td>
<td>✓</td>
<td>15 %</td>
</tr>
<tr>
<td>Degenerative Terrain Index</td>
<td>✓</td>
<td>✓</td>
<td>10 %</td>
</tr>
<tr>
<td>Terrain Index - BA value</td>
<td>✓</td>
<td>✓</td>
<td>0 %</td>
</tr>
<tr>
<td>Cellular Harmony Zone - Z value</td>
<td>✓</td>
<td></td>
<td>n.d.</td>
</tr>
<tr>
<td>Menetrier diathesis</td>
<td>✓</td>
<td>✓</td>
<td>15 %</td>
</tr>
<tr>
<td>Cellular harmony chart and evaluation of adapting capacity</td>
<td>✓</td>
<td>✓</td>
<td>10 %</td>
</tr>
<tr>
<td>Cardiovascular Harmony chart</td>
<td>✓</td>
<td></td>
<td>n.d.</td>
</tr>
<tr>
<td>Kidney chronobiologic biorhythm</td>
<td>✓</td>
<td>✓</td>
<td>0 %</td>
</tr>
</tbody>
</table>
Legend is the following:

<table>
<thead>
<tr>
<th>0 %</th>
<th>Flawless result compared to analysis performed with blood sample</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 %</td>
<td>Result with acceptable error (indicated) compared to analysis performed with blood sample</td>
</tr>
<tr>
<td>n.d.</td>
<td>Result not obtainable without considering blood sample</td>
</tr>
</tbody>
</table>

Here follows as an example a real analysis carried out on the same person with and without blood sample.

As one can see, results carried out without blood sample are still reliable and very similar to the ones obtained by using all three body fluids, allowing also non-sanitary practitioners to perform good and reliable analysis, useful to determine the balance of the human Cellular Terrain and improve the individual's state of wellbeing.
### ORIGINAL ANALYSIS, **WITH BLOOD SAMPLE**

<table>
<thead>
<tr>
<th>INPUT DATA</th>
<th>MIXED VALUES EVALUATION</th>
<th>ENERGETIC EVALUATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surname and Name</td>
<td>S.I.</td>
<td>pH$_B$ 101.01</td>
</tr>
<tr>
<td>Fiscal Code</td>
<td>pH$_M$</td>
<td>97.67</td>
</tr>
<tr>
<td>Date of birth</td>
<td>Date of analysis</td>
<td>31/01/1976</td>
</tr>
<tr>
<td>Gender</td>
<td>Hour of analysis</td>
<td>F</td>
</tr>
<tr>
<td>Date of analysis</td>
<td>Overall Reactivity</td>
<td>36.0 °C</td>
</tr>
<tr>
<td>Body Temperature</td>
<td>Weight</td>
<td>56 Kg</td>
</tr>
<tr>
<td>Weight</td>
<td>Age</td>
<td>43 years old</td>
</tr>
</tbody>
</table>

### ANALYSIS VALUES

<table>
<thead>
<tr>
<th>pH</th>
<th>pH$_B$</th>
<th>R</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>BLOOD</strong></td>
<td>7.300</td>
<td>7.440</td>
</tr>
<tr>
<td><strong>SALIVA</strong></td>
<td>6.800</td>
<td>6.700</td>
</tr>
<tr>
<td><strong>URINE</strong></td>
<td>5.100</td>
<td>5.600</td>
</tr>
</tbody>
</table>

### THEORETICAL VALUES

- Energy shortage: 10% Energy excess: 80%
- Current Terrain Layout: T = 56.0%
- Overall Reactive Level: RG = 51.2%
- Nutrients absorption Reactive Level: RA = 156.1%
- Excretory Reactive Level: RE = 63.3%
- Global Mitochondrial Reactive Elevation: E = 40.3%
- Kidneys Energy: ER = 70.0%
- Liver and Lymphatic Energy: EP = 62.0%
- Digestive Energy and Absorption: ED = 60.1%
- Pancreatic Energy: EP = 84.7%
- Cardiovascular Energy: EC = 17.2%
- Bones Energy Reserve: ED = 72.1%
- Nervous System Energy: ESN = 93.0%

### ANALYSIS WITHOUT BLOOD SAMPLE

- Energy shortage: 10% Energy excess: 80%
- Emotional stress Index: ISE = 12.6%
- Electromagneti overload Index: IEL = 62.4%
- Acidity level Index: LA = 42.3%
- Oxidative Index: EO = 63.5%
- Degenerative Terrain Index: TD = 68.7%

### Note:
The values marked with "*" may indicate a present maximum rate of 12% in respect to analysis which took into account the blood sample as well.
**MENETRIER DIATHESIS**

**ORIGINAL ANALYSIS, WITH BLOOD SAMPLE**

**ANEMIC DIATHESIS**
- Energy deficit
- Memory deficits
- Persistent fatigue
- Autoimmune imbalances

**DYSTONIC DIATHESIS**
- Anxiety
- Sympathetic nervous system
- Neurovegetative system
- Viscera

**HYPOTONIC DIATHESIS**
- Hypo-reactivity
- Fatigue
- Stagnation
- Retention
- Bacteria

**ALLERGIC DIATHESIS**
- Hyper-reactivity
- Inflammation
- Allergies

---

**ANALYSIS WITHOUT BLOOD SAMPLE**

**ANEMIC DIATHESIS**
- Energy deficit
- Memory deficits
- Persistent fatigue
- Autoimmune imbalances

**DYSTONIC DIATHESIS**
- Anxiety
- Sympathetic nervous system
- Neurovegetative system
- Viscera

**HYPOTONIC DIATHESIS**
- Hypo-reactivity
- Fatigue
- Stagnation
- Retention
- Bacteria

**ALLERGIC DIATHESIS**
- Hyper-reactivity
- Inflammation
- Allergies
CELLULAR HARMONY CHART
EVALUATION OF ADAPTING CAPACITY

Original analysis, **with** blood sample

**Strong imbalance**
Deep difficulty of the organism to rebalance itself

**Imbalance**

**Tendency to imbalance**

**Discrete balance**

**Good balance**

**Oxidation**

**pH**

**rH2**

**Terrain Acidity**

**Alkalosis**

Analysis **without** blood sample

**Strong imbalance**
Deep difficulty of the organism to rebalance itself

**Imbalance**

**Tendency to imbalance**

**Discrete balance**

**Good balance**
BIO-ELECTRONIC VINCENT DIAGRAM

ORIGINAL ANALYSIS, **WITH** BLOOD SAMPLE

ANALYSIS **WITHOUT** BLOOD SAMPLE
WOMEN ISOELECTRIC DIAGRAM

Isoelectric Cardiovascular Harmony Line

ORIGINAL ANALYSIS, **WITH** BLOOD SAMPLE

ANALYSIS **WITHOUT** BLOOD SAMPLE