

# BioPostural System

## Clinical protocols for the evaluation of:

- Romberg quotient;
- Monopodal support analysis;
- Analysis of the Retroflexion of the head;
- Dynamic analysis of breech support;
- Analysis of the Occlusal Release;
- Customizable protocols;
- Comparison of up to 6 analyzes;
- Evaluation of the session;



Via Pierino Colombo, 3  
20871 Vimercate (MB)  
Tel. 039 6080924  
[www.avmicrolab.it](http://www.avmicrolab.it)

NEW VERSION

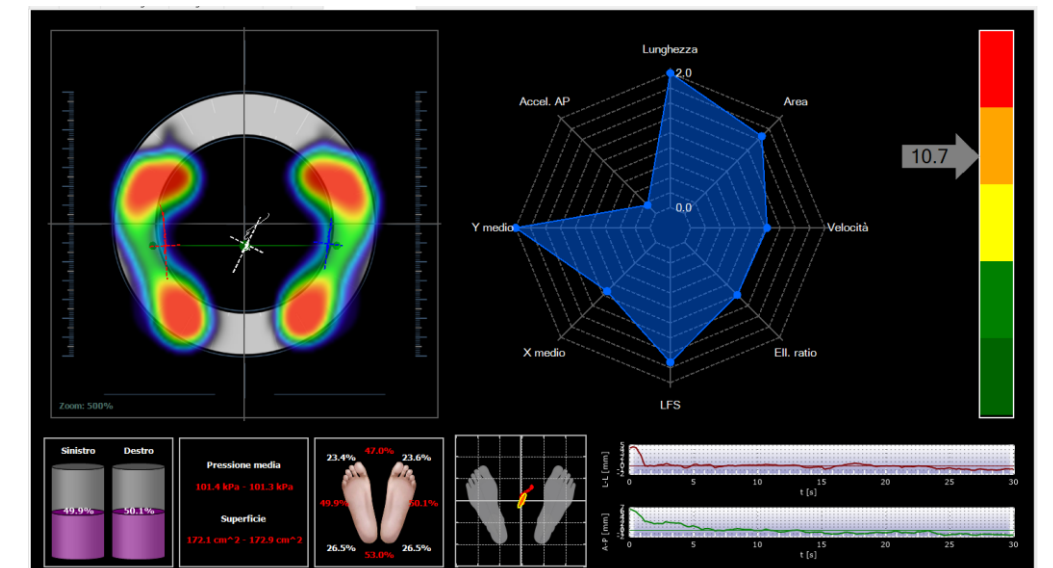
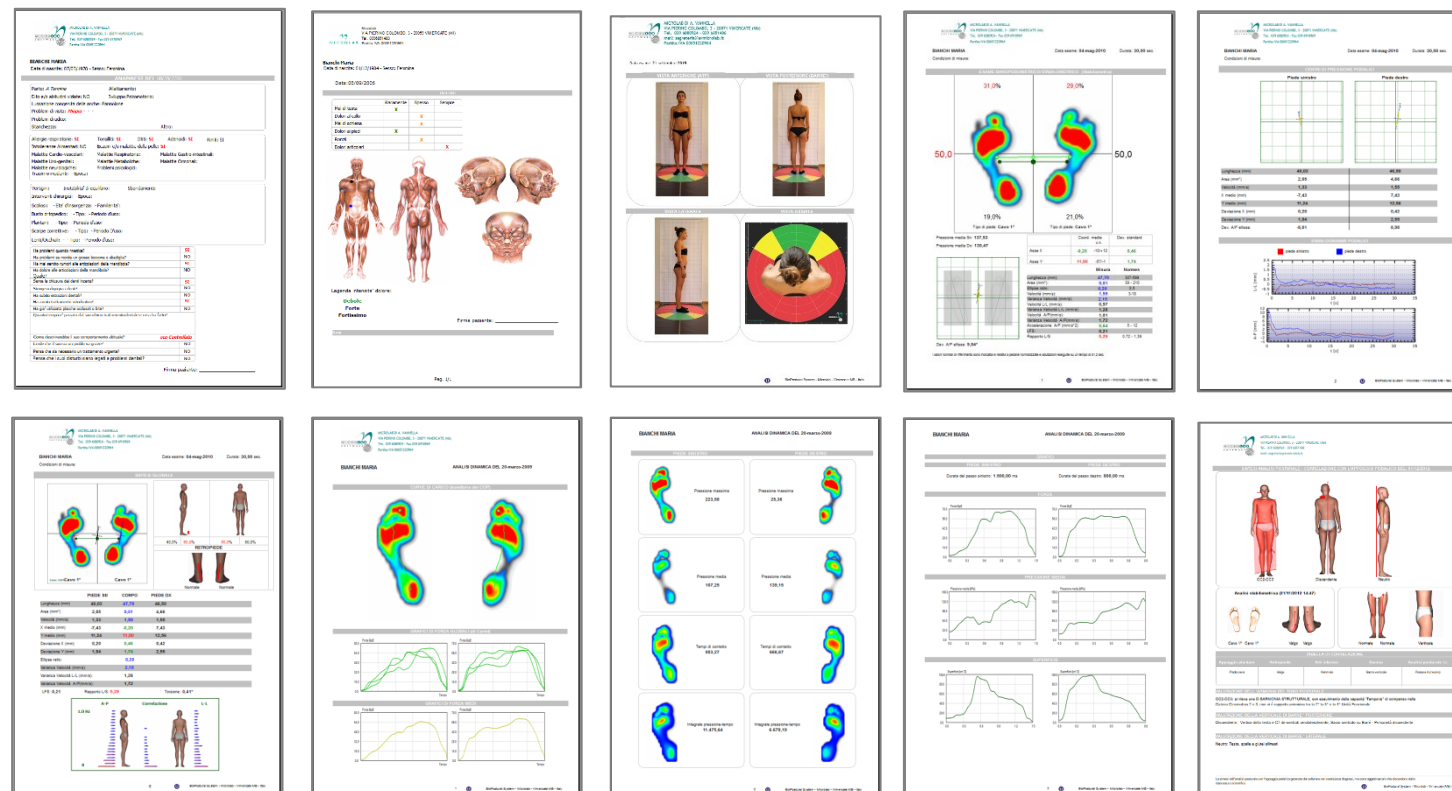
## II BioPostural System

The BioPostural System® is a system composed of a specific software for acquiring generic, clinical and anamnestic data of the patient, images and posturometric signals. The software was developed using the "GUI" Graphics User Interface technology for a detailed view of the exam performed which leads the user in an intuitive way to the identification and study of problems related to the patient's posture. It brings together forms for easy compilation, acquisition and consultation of objectified data, assisted by the sophisticated processing of the same thanks to the mathematical tools used. The operator will thus be able to use the final synthesis easily and quickly for the correct correlation with the patient's clinical situation.

### POSTURAL INDEX DASHBOARD

Global summary of the analysis with automatic calculation of the postural index deriving from an exclusive Microlab algorithm calculated based on the Radar Balance of the main descriptors

## Reports

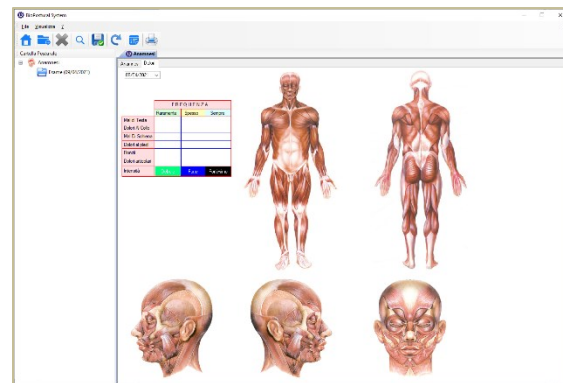


Microlab  
Software

# The modules of the BioPostural System

## DATA SHEET AND ANAMNESIS

Complete registry of fiscal data and initial clinical status of the patient as well as of the accounting situation;  
Anamnestic sheet, Graphic muscle pain map and generic pain table;



## POSTURAL ANALYSIS

In this module it is possible to objectify the patient's static situation in upright posture in the four projections, replacing the posturoscope and offering an analysis result calculated based on the arrangement of the points and the inserted loaves, directly on the patient's photo.

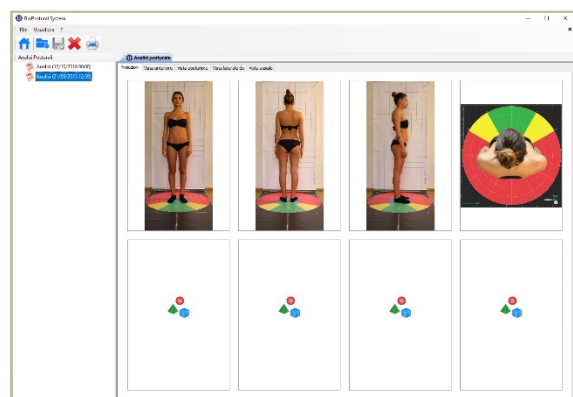
## THE ANALYSIS PROJECTIONS

**Front:** to evaluate the Harmony of the Postural Tone;

**Back:** to evaluate the position of the head, shoulders and sacrum with respect to the Barré vertical;

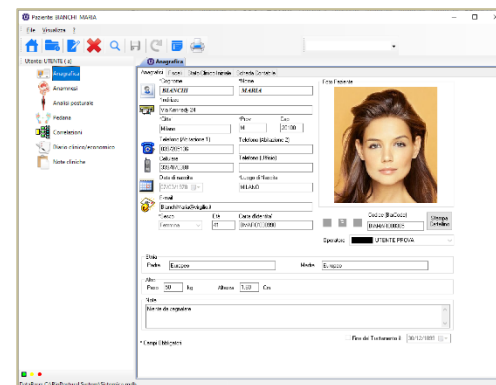
**Lateral:** to evaluate the position of the head, shoulders and sacrum with respect to the posterior plane;

**Axial:** for the evaluation of torsion in the axial plane



## CLINICAL DIARY AND CLINICAL NOTES

This section allows you to objectify the list of patient visits in a detailed and temporal manner.

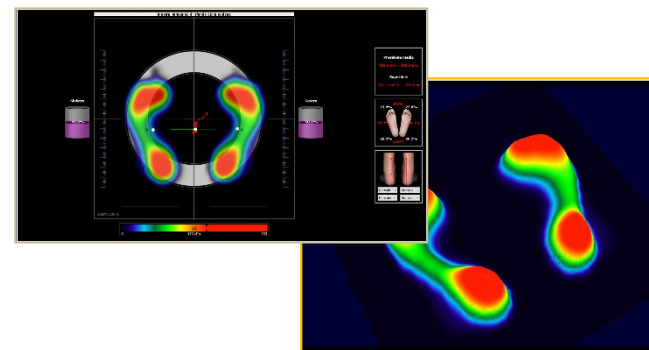


## EXAMINATION ON PLATFORM

Exam folder Platform with representation in a tree in chronological order of the exams performed according to the various protocols including the objectification of the following information:

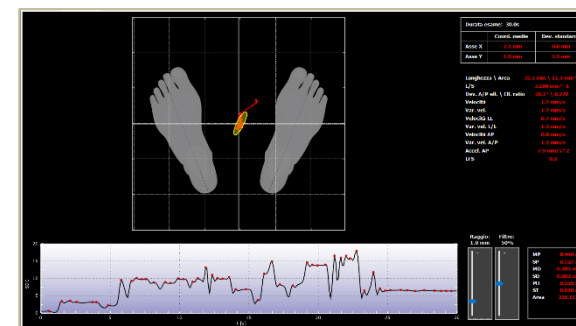
## POSTUROMETRIC ANALYSIS

Partial and total load distribution and support surfaces, barycentric axis, rear foot, 3D visualization



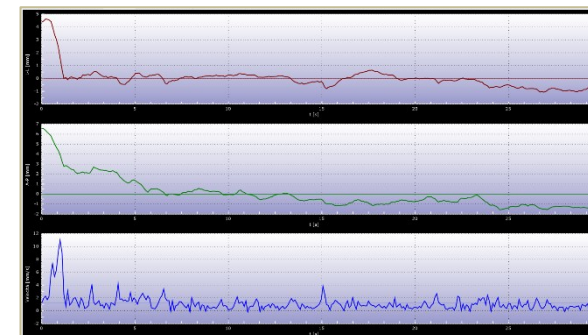
## STABILOMETRIC ANALYSIS

Evaluation of the ball and ellipse of confidence with the orientation of the axes (area, length, Speed, Acceleration, LFS, etc.), Sway density.



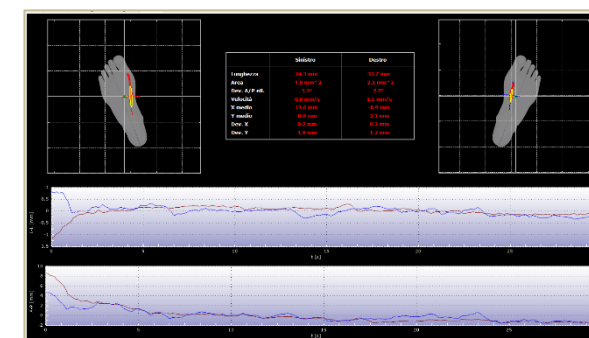
## STABILOGRAMS

The stabilograms represent the displacement recorded during the examination of the center of gravity in L / L and A / P with respect to its average value (X-mean, Y-mean).



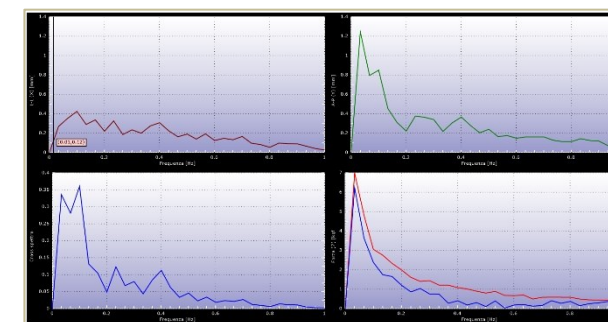
## PODAL BASE CENTERS

The centers of gravity of the individual feet are analyzed and graphed with balls, stabilograms and numerical parameters



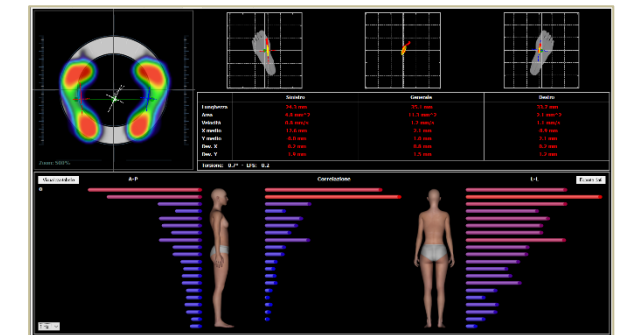
## FFT (FAST FOURIER TRANSFORM)

The spectral analysis of the oscillations using the FFT, The oscillation frequencies are processed to highlight the correlation between A / P and L / L oscillations



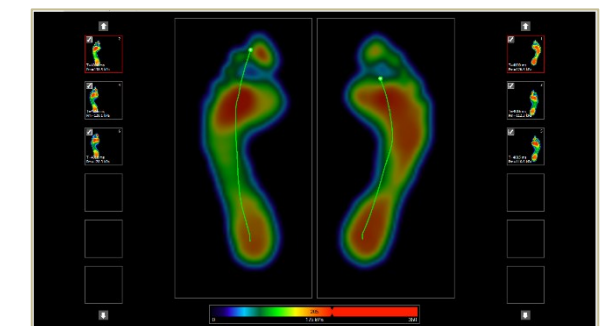
## GLOBAL SUMMARY

The section of the global summary contains in a single screen, all the peculiar information of the analysis, enriched with a graphic schematization of the FFT



## DYNAMIC ASSESSMENT OF THE STEP

The dynamic analysis evaluates the progress of the step during walking on the platform, acquired one foot at a time. They objected: the loads, the force graphs and it is possible to review a film of the dynamics of the step.



## CORRELATIONS

Here the correlation between postural analysis and breach support are objectified

