

Balance Clinic

Software for Balance Applications

AMTI's Balance Clinic is a comprehensive software package ideal for clinical and research posturography. Balance Clinic is designed to be used in conjunction with AMTI's AccuSwayPlus platforms to provide a low cost portable balance solution.

Balance Clinic provides a simple step by step procedure for acquiring balance trials while displaying COP data on a real time graphics display. A subject and trial database make it easy to organize and store your balance trial data. As each trial is completed an entry is made in the trial database to record the subject and trial information. A protocol file is used to define the required trials and to ensure conformity of the testing process.

Features

Subject Database - record subject and trial information within Balance Clinic.

Test Protocol - administer same user defined sequence of trials to each subject.

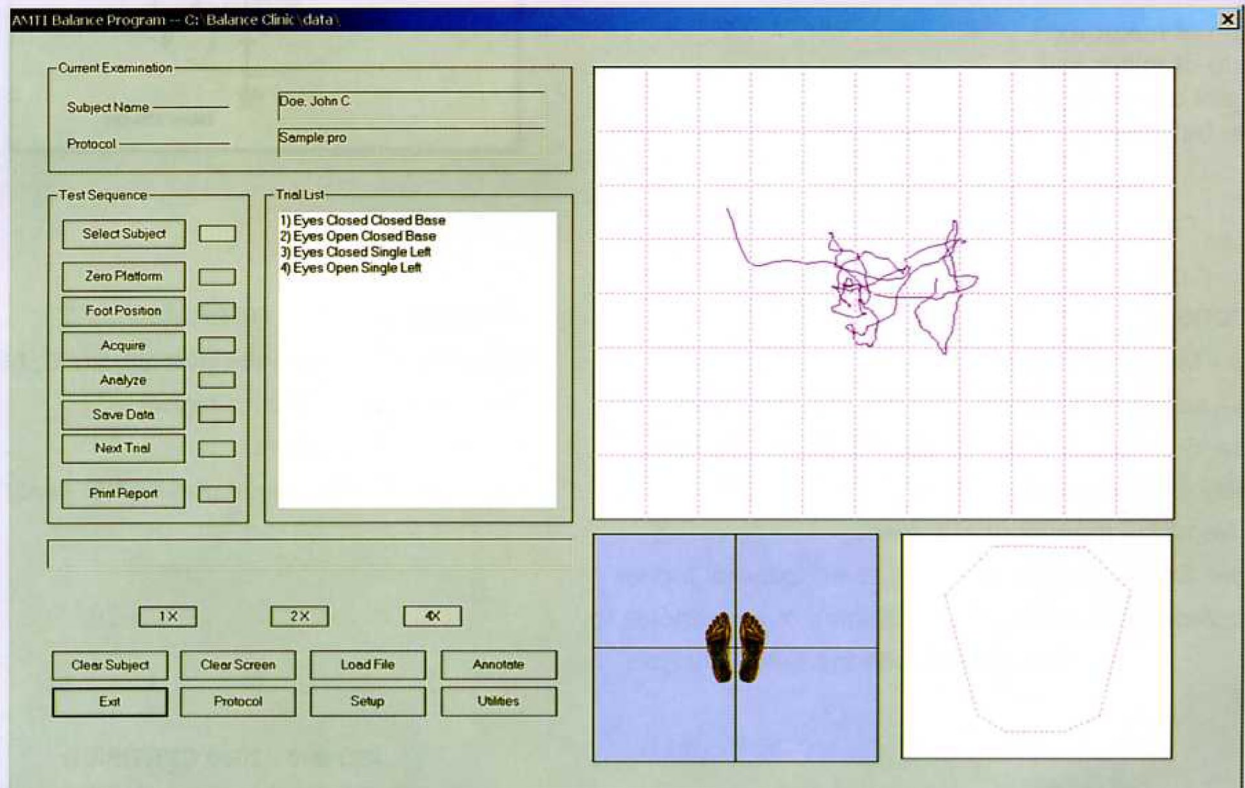
Batch Analysis - select single or multiple trials to analyze.

Export Data - export in ASCII text format the force and moment data, raw X and Y COP, statistical results.

Base of Support - automatically recorded with a pointer wand provided with the AccuSway^{Plus} platform.

Romberg Ratios - can be printed when the protocol is complete.

Compatibility - can also be used with AMTI AccuGait platform and can read Swaywin⁹⁵ files.



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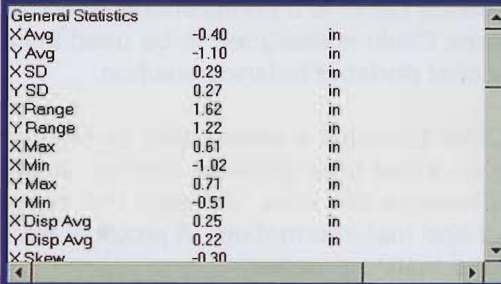
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Analysis Measures for X and Y

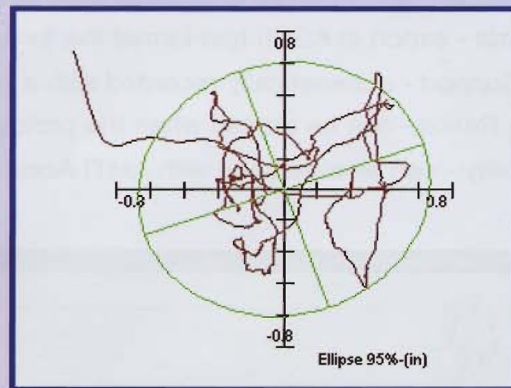
Average
Standard Deviation
Range
Maximum
Minimum
Average Deviation
Skew
Kurtosis
Average Radial Position Vector Length
Radial Position Standard Deviation
Circular Area encompassing 100% of data points
Rectangular Area encompassing 100% of data points
Effective area (66% of data points)
Path Length
Path Length per unit time
Maximum Velocity
Minimum Velocity
Average Velocity
Deviation of COP from BOS centroid

95th Percentile Ellipse Measures

Covariance
Area
Length of major axis
Length of minor axis
Tangent of minor axis
Angle between x axis and minor axis



General Statistics		
X Avg	-0.40	in
Y Avg	-1.10	in
X SD	0.29	in
Y SD	0.27	in
X Range	1.62	in
Y Range	1.22	in
X Max	0.61	in
X Min	-1.02	in
Y Max	0.71	in
Y Min	-0.51	in
X Disp Avg	0.25	in
Y Disp Avg	0.22	in
X Skew	-0.30	



Options

Units - Metric or English
Date - select by country
Filter - Select 1, 2, 3, 5, 10, 20, 30, 50, or 100 Hz
Display - choice of plot colors
File Naming - manual or automatic
Trigger Setup - keystroke, force level, external trigger
User Variables - add up to 4 variables of your choice to be exported with the batch analysis

Computer Requirements

Operating system: Windows 98, 2000, ME, NT 4.0
Processor: 133 MHz or higher
RAM: 32 Mb or more
Interface: RS232 serial port or A/D card

AMTI
FORCE AND MOTION

ISO 9001:2000 certified

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