GAIT TRAINER™ 3 (v3.X software)

CSV FILE EXPORT

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CSV File Export

From the Gait Trainer application, two types of CSV files can be exported:

- Single (Individual) test record CSV
- Multiple test record CSV file.

A Single CSV file will contain all of the data for an individual test along with raw data points. However, a Mutiple CSV file will contain the summary of each test under different column names. This is useful in order to create custom normative data.

NOTE: *For detailed instructions on how to export a CSV file, refer to the Exporting Multiple Patient Data Sets section of the manual.*

Table 1. Gait Trainer CSV File Format – Single Test Export CSV File.

	A	B	C	D	E	F
1	Name	Shahidul				
2	Patient ID	12345566				
3	TestDateTime	11/4/2015				
4	Height	208				
5	DOB	10/10/1975				
6	GenderID	1				
7	ElapsedTime	60				
8	TestDistance	40				
9	AvgSpeed	1.1	1.82	0.67		
10	AvgStepCycle	0.76	1.12	0.58		
11	AvgStepLength	68	80	58	55	
12	RtVariance	3				
13	LtVariance	3				
14	RtTimeDistrib	51				
15	LtTimeDistrib	49				
16	HistogramX	0				
17	TotalStepCount	68				
18	CPTCode	97001				
19	Comments					
20	ICDCode					
21	Diagnosis					
22	UnitAddress					
23	GCodeResultsOption	1				
24	GCodeCategory	0				
25	GCodeStatus	0				
26	ImpCalcAvgWalking	43				
27	ImpCalcAvgStepCycle	0				
28	ImpCalcAvgStepLength	2				
29	ImpCalcCOV	0				
30	ImpCalcTOF	0				
31	ImpAmndAvgWalking	0				
32	ImpAmndAvgStepCycle	0				
33	ImpAmndAvgStepLengt	0				
34	ImpAmndCOV	0				

	A	B	C	D	E	F
35	ImpAmndTOF	0				
36	Data start					
37	41	55	57	61		
38	41	59	57	61		
…	…	…	…	…		
…	…	…	…	…		
65	41	57	61	61		
66	41	56	58	61		
67	41	54	59	61		
68	41	54	58	61		
69	41	56	59	61		
70	Data end					

CSV File Format Explanation – Single Record CSV File

The CSV file can be divided into two different segments:

1. Device, Patient, Test results segment.
2. Raw Data points segment.

Segment A – Device, Patient, Test Results:

Starting from the top of the file, the Gait Test file format displays the device information and patient information followed by the different test results. The left column contains the heading/label and the right column(s) displays the corresponding values.

Table 2. Single Test Export CSV File – Field Heading Definitions.

Field Heading	Description
Name	The patient's name.
Patient ID	Patient ID.
TestDateTime	Date and time the test is performed.
Height	Height of the patient in CMs.
DOB	Patient's date of birth.
GenderID	Male = 1, Female = 2.
ElapsedTime	Total test time in seconds.
TestDistance	Total distance of the exercise in meters.
AvgSpeed	Average walking speed in meters/sec. The first two columns display the norm value and the third column displays the actual exercise value.
AvgStepCycle	Average Step Cycle. The first two columns display the norm value and the third column displays the actual exercise value.
AvgStepLength	Average Step Length in CMs. The first two columns display the normative value and the third column displays the actual exercise value for the right leg. The fourth column represents the left leg.
RtVariance	Coefficient of variation displayed as a percentage for the Right Leg.
LtVariance	Coefficient of variation displayed as a percentage for the Left Leg.
RtTimeDistrib	The time spent on the right foot displayed as a percentage.
LtTimeDistrib	The time spent on the left foot displayed as a percentage.

Field Heading	Description
HistogramX	Value for Histogram displayed in Steps/Time/Distance format.
TotalStepCount	The number of steps taken during the test.
CPTCode	The CPT code (if used) for the test.
Comments	Any pertinent comments about the test.
ICDCode	The ICD code information.
Diagnosis	The diagnosis information.
UnitAddress	Unit address of the device.
GCodeResultsOption	Indicates whether or not the G-Code option was turned on or off.
GCodeCategory	The category for the G-Code.
GCodeStatus	Status of G-Code, where: 0= Current, and 1= Discharge.
ImpCalcAvgWalking	Impairment value for the Average Walking Speed.
ImpCalcAvgStepCycle	Impairment value for the Average Step Cycle.
ImpCalcAvgStepLength	Impairment value for the Average Step Length.
ImpCalcCOV	Impairment value for the COV.
ImpCalcTOF	Impairment value for the Time on Each Foot.
ImpAmndAvgWalking	Amendment reason (if any) for the Average Walking Speed.
ImpAmndAvgStepCycle	Amendment reason (if any) for the Average Step Cycle.
ImpAmndAvgStepLength	Amendment reason (if any) for the Average Step Length.
ImpAmndCOV	Amendment reason (if any) for the COV.
ImpAmndTOF	Amendment reason (if any) for the Time on Each foot.

Segment B – Raw Data Points Segment:

For the Data segment, cell A represents the Minimum Tolerance Range, cell B represents Step Length on the Left foot, cell C represents the Step Length on the Right foot, and cell D represents the Maximum Tolerance Range.

Table 3. Single Test Export CSV File – Raw Data Points.

	A	B	C	D	E	F
35	Data start					
36	41	55	57	61		
37	41	59	57	61		
…	…	…	…	…		
…	…	…	…	…		
65	41	57	61	61		
66	41	56	58	61		
67	41	54	59	61		
68	41	54	58	61		
69	41	56	59	61		
70	Data end					

CSV File Format Explanation – Multiple Record CSV File

The Gait Trainer application allows exporting multiple records to a single CSV file, and can be used to create personalized normative data. Figure A.1 is an example of a previously exported CSV file.

Each row in the table represents an individual test record. There will be more columns for each row than displayed on the sample report. It is suggested that the unnecessary data columns be deleted or hidden. The statistical analysis can easily be performed on this data.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
1	Name	TestDateT	Height	DOB	ElapsedTime	TestDistance	AvgSpeedMin	AvgSpeedMax	AvgSpeed	AvgStepCycle	AvgStepCycle	AvgStepCycl	AvgStepLength	AvgStepLength	RtAvgStepLeng	LtAvgStepLeng	RtVariance	LtVariance	RtTimeDistr	LtTimeDistr	TotalStep
2	#####	#########	172	######	2	0	0.96	1.68	0.25	0.68	1.05	0	63	75	0	0	100	100	50	50	0
3	#####	#########	172	######	9	3	0.96	1.68	0.38	0.68	1.05	0.32	63	75	60	41	10	10	60	40	4
4	#####	#########	172	######	2	0	0.96	1.68	0.25	0.68	1.05	0	63	75	0	0	100	100	50	50	0
5	#####	#########	172	######	15	4	0.96	1.68	0.3	0.68	1.05	0.6	63	75	20	25	31	41	37	63	15
6	#####	#########	172	######	3	0	0.96	1.68	0.16	0.68	1.05	0	63	75	88	0	100	100	100	0	1
7	#####	#########	172	######	2	0	0.96	1.68	0.25	0.68	1.05	0	63	75	0	0	100	100	50	50	0
8	#####	#########	172	######	35	28	0.96	1.68	0.81	0.68	1.05	0.65	63	75	59	55	28	25	55	45	41
9	#####	#########	172	######	18	11	0.96	1.68	0.63	0.68	1.05	0.62	63	75	53	49	20	22	45	55	22
10	#####	#########	172	######	27	13	0.96	1.68	0.5	0.68	1.05	0.41	63	75	52	58	31	59	51	49	21
11	#####	#########	172	######	29	18	0.96	1.68	0.63	0.68	1.05	0.52	63	75	47	54	36	27	58	42	29
12	#####	#########	172	######	1215	692	0.96	1.68	0.56	0.68	1.05	0.7	63	75	34	35	36	38	49	51	1706
13	#####	#########	172	######	1298	522	0.96	1.68	0.4	0.68	1.05	0	63	75	0	0	100	100	50	50	0
14	#####	#########	172	######	2	0	0.96	1.68	0.25	0.68	1.05	0	63	75	0	0	100	100	50	50	0
15	#####	#########	172	######	7	3	0.96	1.68	0.5	0.68	1.05	0.55	63	75	43	47	2	3	48	52	6
16	#####	#########	185	######	60	32	1.1	1.82	0.54	0.76	1.12	0.76	63	75	9	45	81	11	43	57	89
17	#####	#########	185	######	60	32	1.1	1.82	0.54	0.76	1.12	0.69	63	75	49	44	5	7	28	72	65
18	#####	#########	185	######	60	32	1.1	1.82	0.54	0.76	1.12	0.53	63	75	51	47	5	4	51	49	62
19	#####	#########	185	######	60	32	1.1	1.82	0.54	0.76	1.12	0.73	63	75	11	50	89	8	49	51	86
20	#####	#########	185	######	30	16	1.1	1.82	0.55	0.76	1.12	0.67	63	75	17	40	75	28	35	65	34
21	#####	#########	185	######	30	16	1.1	1.82	0.55	0.76	1.12	0.55	63	75	49	45	2	3	51	49	32
22	#####	#########	185	######	30	16	1.1	1.82	0.55	0.76	1.12	0.78	63	75	13	62	119	23	34	66	40
23	#####	#########	185	######	90	100	1.1	1.82	1.11	0.76	1.12	0.8	63	75	68	68	10	13	50	50	143
24	#####	#########	185	######	90	92	1.1	1.82	1.02	0.76	1.12	0.89	63	75	54	58	13	8	50	50	158
25	#####	#########	185	######	90	80	1.1	1.82	0.89	0.76	1.12	0.9	63	75	43	53	11	10	50	50	160
26	#####	#########	185	######	90	92	1.1	1.82	1.02	0.76	1.12	0.88	63	75	55	58	6	7	50	50	157
27	#####	#########	185	######	60	40	1.1	1.82	0.67	0.76	1.12	0.67	63	75	47	50	6	7	51	49	79
28	#####	#########	185	######	60	26	1.1	1.82	0.44	0.76	1.12	0.45	63	75	46	50	8	7	50	50	52
29	#####	#########	185	######	60	26	1.1	1.82	0.44	0.76	1.12	0.45	63	75	46	49	9	7	50	50	53
30	#####	#########	185	######	60	32	1.1	1.82	0.54	0.76	1.12	0.53	63	75	48	47	4	14	49	51	62
31	#####	#########	185	######	60	32	1.1	1.82	0.54	0.76	1.12	0.54	63	75	51	45	6	9	51	49	64
32	#####	#########	185	######	60	32	1.1	1.82	0.54	0.76	1.12	0.54	63	75	51	46	6	8	51	49	64
33	#####	#########	185	######	60	32	1.1	1.82	0.54	0.76	1.12	0.54	63	75	50	47	9	8	51	49	64
34	#####	#########	185	######	60	40	1.1	1.82	0.67	0.76	1.12	0.58	63	75	59	54	2	4	52	48	68
35	#####	#########	208	######	2	0	1.1	1.82	0.25	0.76	1.12	0	68	80	0	0	100	100	50	50	0
36	#####	#########	208	######	5	3	1.1	1.82	0.7	0.76	1.12	0.65	68	80	46	48	3	3	49	51	4
37	#####	#########	208	######	55	12	1.1	1.82	0.22	0.76	1.12	0.25	68	80	46	39	26	19	61	39	24
38	#####	#########	208	######	58	16	1.1	1.82	0.28	0.76	1.12	0.2	68	80	69	70	44	59	31	69	21
39	#####	#########	208	######	60	40	1.1	1.82	0.67	0.76	1.12	0.58	68	80	58	54	3	3	52	48	69

Figure 1. Multiple Record CSV Export Sample File Format.

The file starts with the basic information about the patient/test performed, after which it contains the actual scores/data for the test result.

A more concise illustration of the exported file is presented in Figure A.2 below:

A	B	C	D	E	F	G	H	I
Name	TestDateT	Height	DOB	ElapsedTime	TestDistance	AvgSpeedMin	AvgSpeedMax	AvgSpeed
#####	########	172	######	2	0	0.96	1.68	0.25
#####	########	172	######	9	3	0.96	1.68	0.38
#####	########	172	######	2	0	0.96	1.68	0.25
#####	########	172	######	15	4	0.96	1.68	0.3
#####	########	172	######	3	0	0.96	1.68	0.16

Figure.2. CSV File Format Explanation – A More Concise Illustration of the Exported File.

The first record within the exported CSV file illustrates values of AvgSpeed = 0.25 and the normative data minimum and maximum for this category as 0.96 and 1.68 respectively (see Figure A.3 extracted from the Test Results screen that matches the exported CSV file value).

The same interpretation applies for the adjacent columns, AvgStepCycle, AvgStepLenght, etc. in the CSV file.

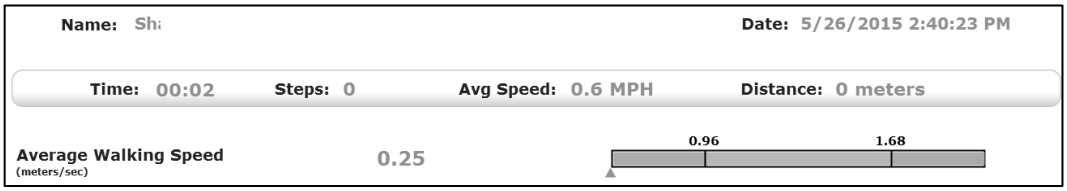

Figure.3. CSV File Format Explanation – Extract from the Test Result Screen.

***NOTE:** The data used in the above example may not necessarily represent real data. It is presented to demonstrate the information contained in the exported CSV file.*

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