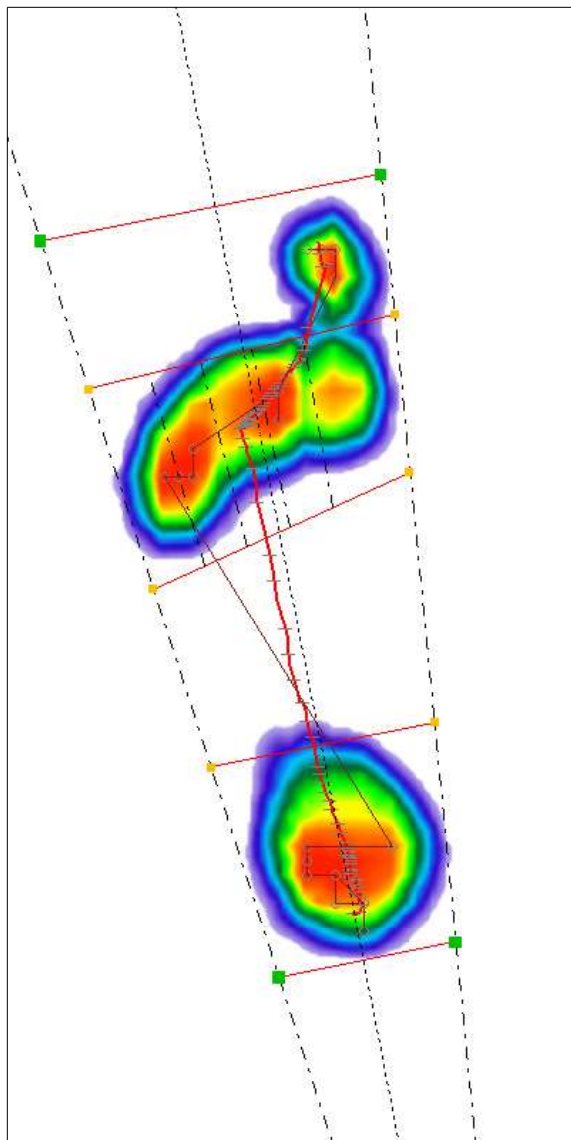
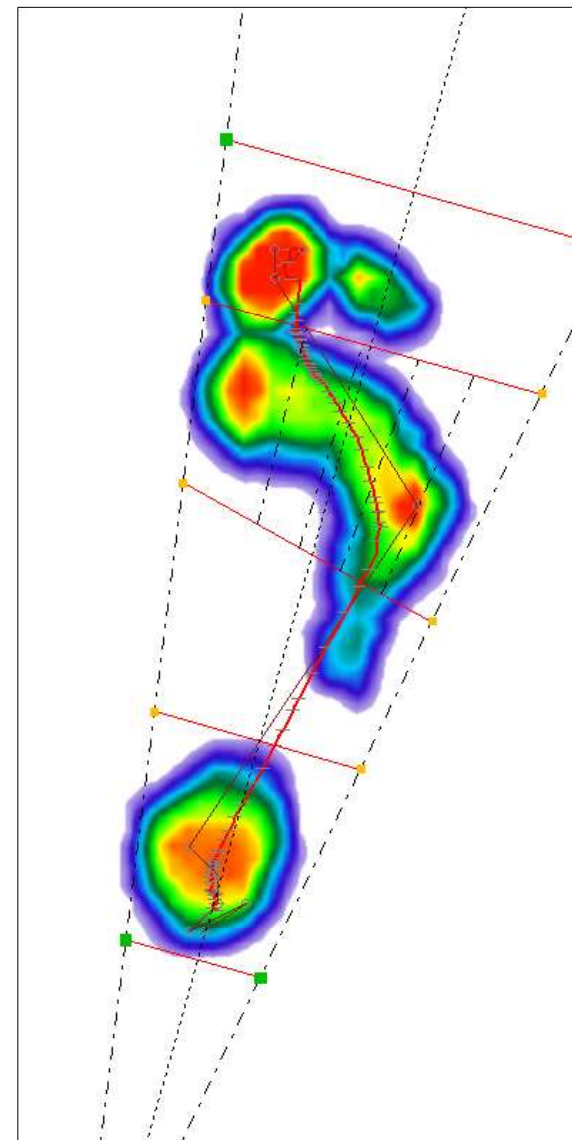




265	Footprint length mm	270
236	Delta CoF mm	232
89%	Global CoF index	86%
6%	Start CoF index	7%
5%	End CoF index	7%
11	Foot angle	16
Surface cm²		
13.00	Hallux	21.25
0	Toes T2 T3 T4 T5	4.00
10.50	Metatarsal head I	14.75
15.75	Metatarsal head II - III	22.00
18.25	Metatarsal head IV - V	16.50
0	Medial arch	0
2.00	Lateral arch	10.75
20.25	Medial heel	19.00
17.25	Lateral heel	12.00
Load %		
11.06%	Hallux	20.16%
0%	Toes T2 T3 T4 T5	2.46%
10.34%	Metatarsal head I	12.89%
18.64%	Metatarsal head II - III	17.57%
19.01%	Metatarsal head IV - V	14.20%
0%	Medial arch	0%
1.12%	Lateral arch	6.35%
21.32%	Medial heel	16.95%
17.67%	Lateral heel	9.89%



Dynamic Analysis - Gait Cycle

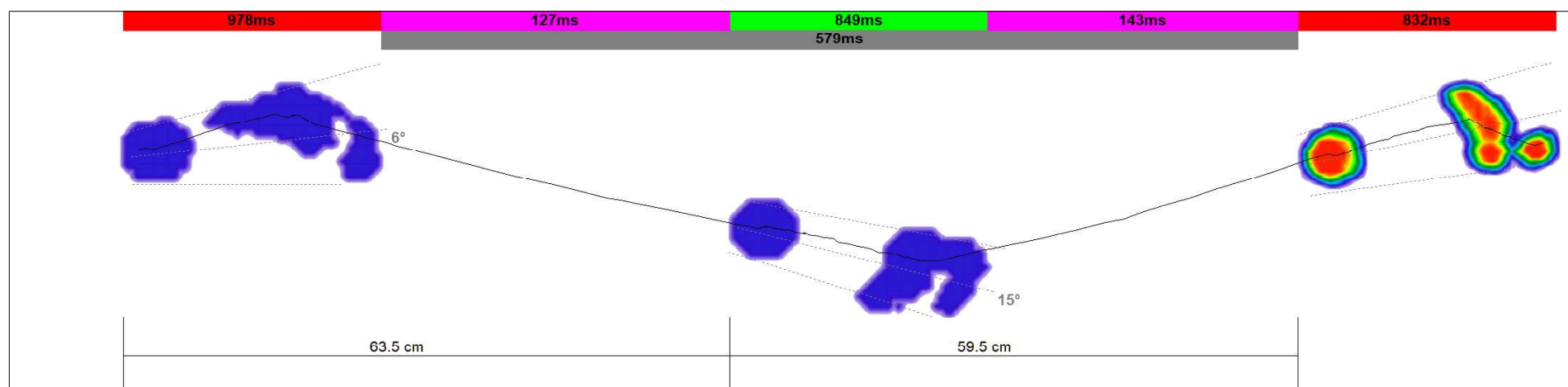
	Initial Contact (0-2%)		Loading Response (3-10%)		Mid Stance (11-30%)		Terminal Stance (31-50%)	
Left footprint	Frames	0-5	Frames	5-26	Frames	26-77	Frames	77-128
	Duration ms	29	Duration ms	120	Duration ms	313	Duration ms	326
	Avg. speed mm/s	245	Avg. speed mm/s	145	Avg. speed mm/s	981	Avg. speed mm/s	220
	Max surf. cm ²	14	Max surf. cm ²	34	Max surf. cm ²	65	Max surf. cm ²	66
	Max load %	10	Max load %	46	Max load %	70	Max load %	100
Right foot	Frames	0-6	Frames	6-30	Frames	30-90	Frames	90-149
	Duration ms	32	Duration ms	133	Duration ms	338	Duration ms	346
	Avg. speed mm/s	170	Avg. speed mm/s	148	Avg. speed mm/s	1063	Avg. speed mm/s	202
	Max surf. cm ²	10	Max surf. cm ²	28	Max surf. cm ²	66	Max surf. cm ²	76
	Max load %	6	Max load %	30	Max load %	60	Max load %	100

= time of left foot support

= time of right foot support

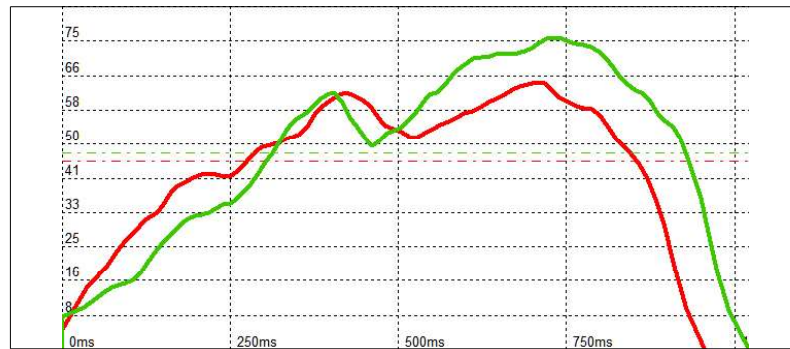
= time of the dual support

= time of oscillation

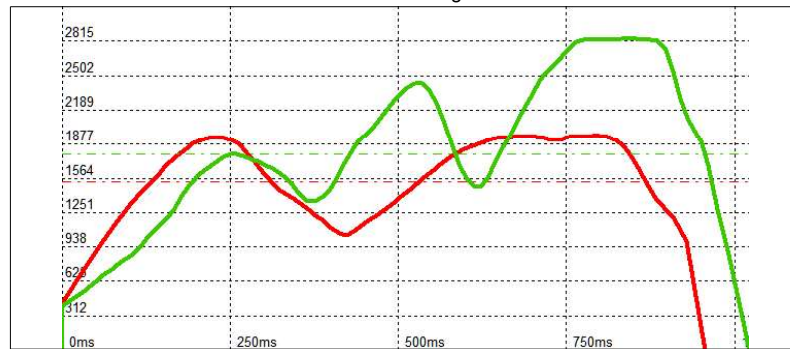


Analysis of 24/06/2010 10.23

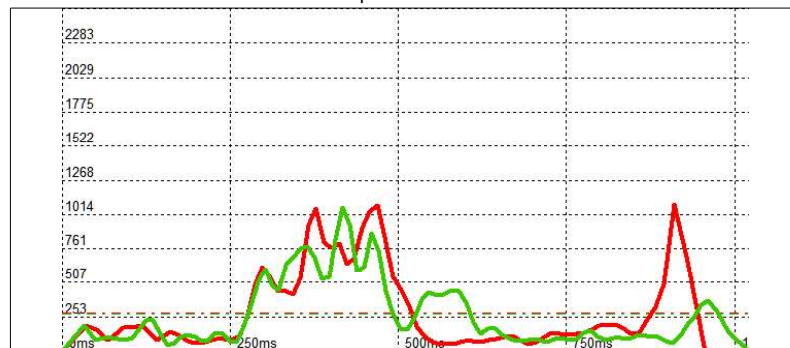
Surface cm²



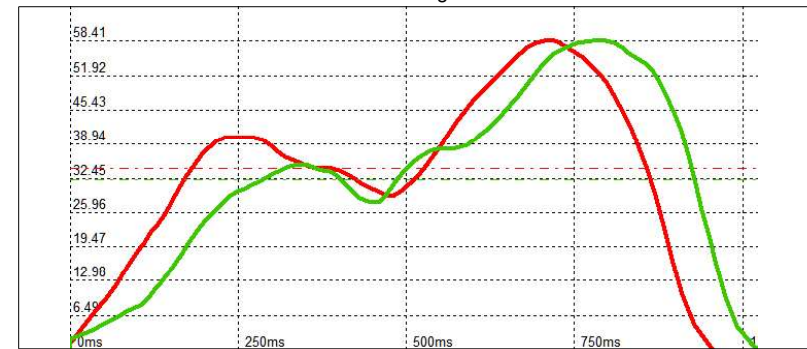
Maximum Pressure gr/cm²



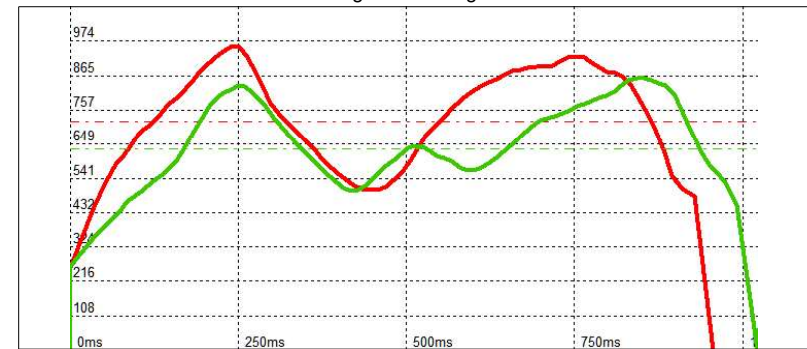
Speed mm/s



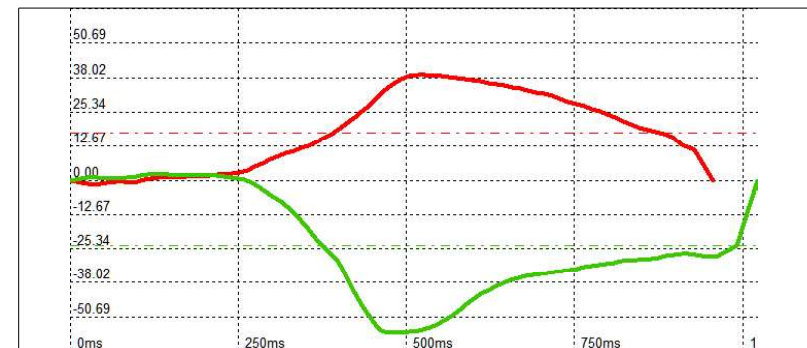
Load Kg



Average Pressure gr/cm²



Rotation cm

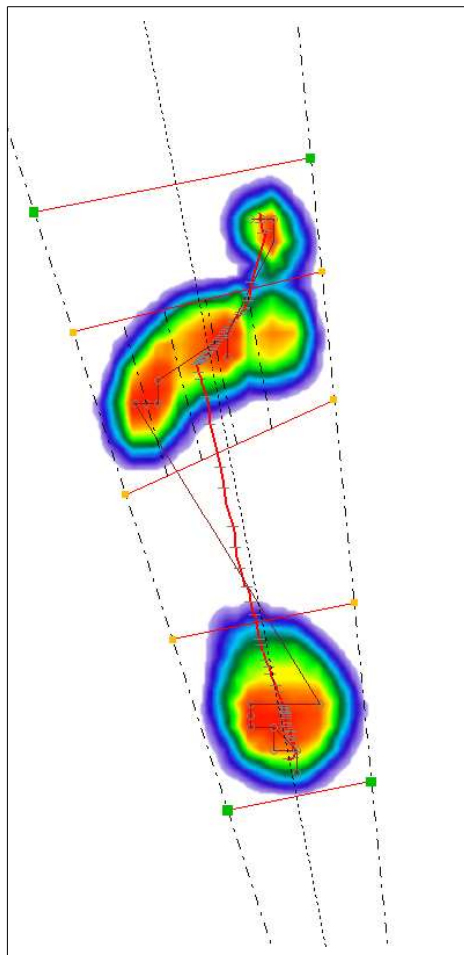


— Left foot — Right foot

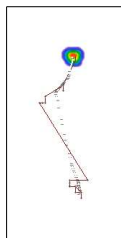
Dynamic analysis - Curves

Analysis of 24/06/2010 10.23

DYNAMIC ANALYSIS - Rockers

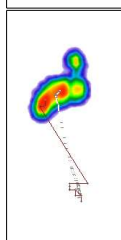
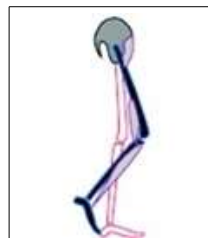


P. Max gr/cm² 1996
 P. Avg. gr/cm² 720
 Surface cm² 98
 Total phases 154
 Time (ms) 956



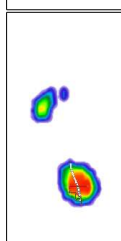
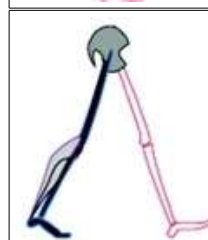
FFPOP

Frames:147-154
 Duration:46 ms
 5%



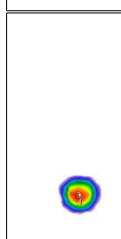
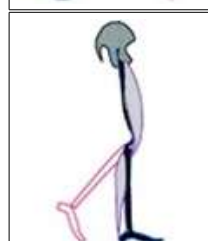
FFP

Frames:84-147
 Duration:403 ms
 42%



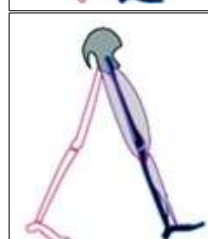
FFCP

Frames:43-84
 Duration:255 ms
 27%



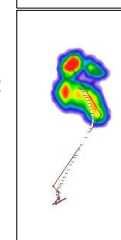
ICP

Frames:0-43
 Duration:252 ms
 26%



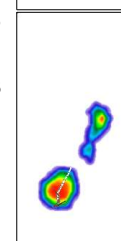
FFPOP

Frames:172-179
 Duration:42 ms
 4%



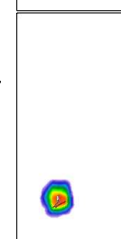
FFP

Frames:83-172
 Duration:517 ms
 51%



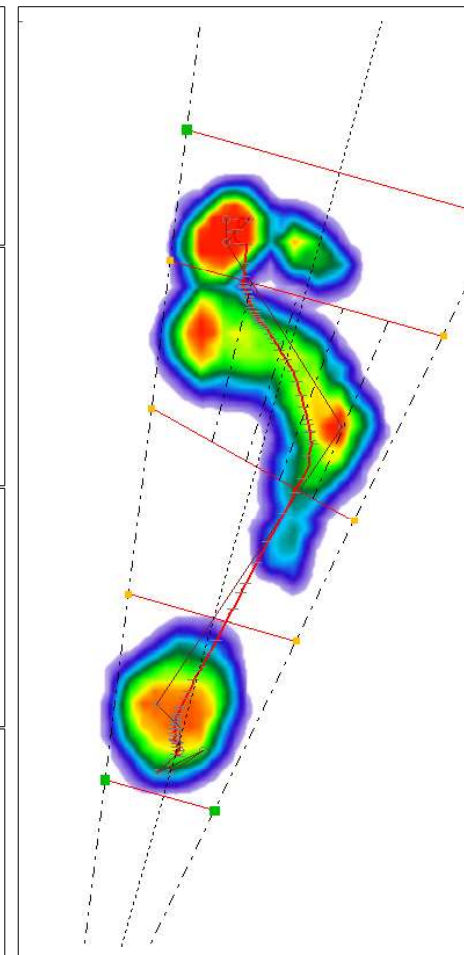
FFCP

Frames:47-83
 Duration:204 ms
 20%



ICP

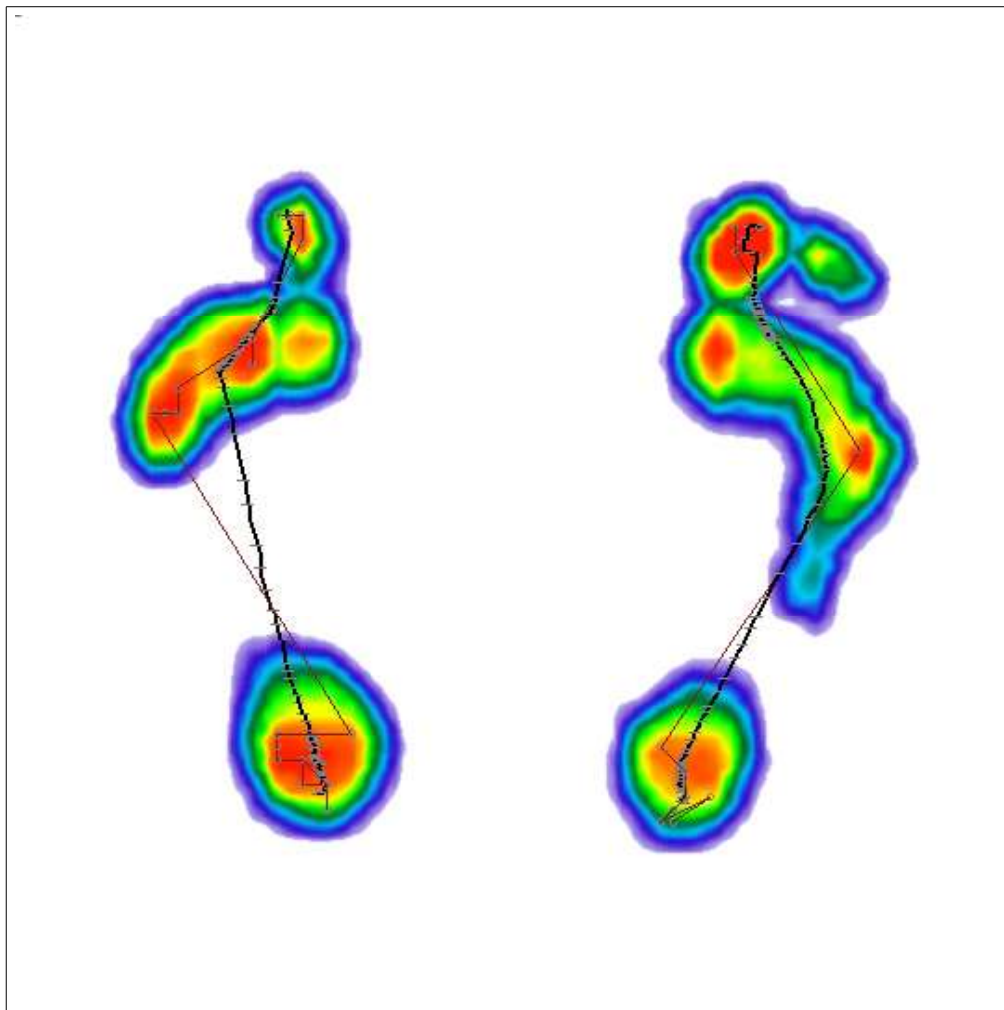
Frames:0-47
 Duration:259 ms
 25%



P. Max gr/cm² 2844
 P. Avg. gr/cm² 634
 Surface cm² 120
 Total phases 179
 Time (ms) 1022



DYNAMIC ANALYSIS



DYNAMIC ANALYSIS

The dynamic examination performed on the patient Paziente Modella the following is noted:

The total area of the left foot (98 cm²) is lower than the right (120 cm²). The length of the left footprint is 265 mm, that of the right of 270 mm.

The average distribution of the load shows appreciable differences between the left and right foot (average pressure LF = 720 gr/cm² - RF = 634 gr/cm²). The point of maximum pressure (P.Max) on the left foot is 1996 gr/cm² and on the right is 2844 gr/cm².

The load distribution between forefoot and rear foot, in the left foot, is within the physiological values (forefoot = 60% - rear foot = 40%), while the right shows a rear-forefoot distribution not conform to normal (forefoot = 70% - rear foot = 30%). The lateral distribution of the load, on the left foot, is 43% on lateral and 57% on medial, on the right side is 47% on lateral and 53% on medial.

The stay on the ground of the left foot was measured in 956ms for a total of 154 frames, for the right 1022ms in 179 frames. During the frame 116 of the left foot there is the point of maximum load, whereas the right took place during the frame 137.

	Left	Right
P.Max g / cm ²	1996	2844
P.Avg gr/cm ²	720	634
surface cm ²	98	120
Foot angle °	11	16
Length footprint mm	265	270
Delta CoF mm	236	232
Load R/F forefoot %	60	70
Load R/F rearfoot %	40	30
Load L / L Medial %	54	60
Load L / L Lateral %	46	40





Sensor Medica USA LLC

966 E. Lincoln Rd. Ste C

83401 Idaho Falls

Phone 208-561-2286

Sample Patient

Birth date

12/19/1981

Height

68 inc

Weight

130 lb

Shoe Size

W 8 US

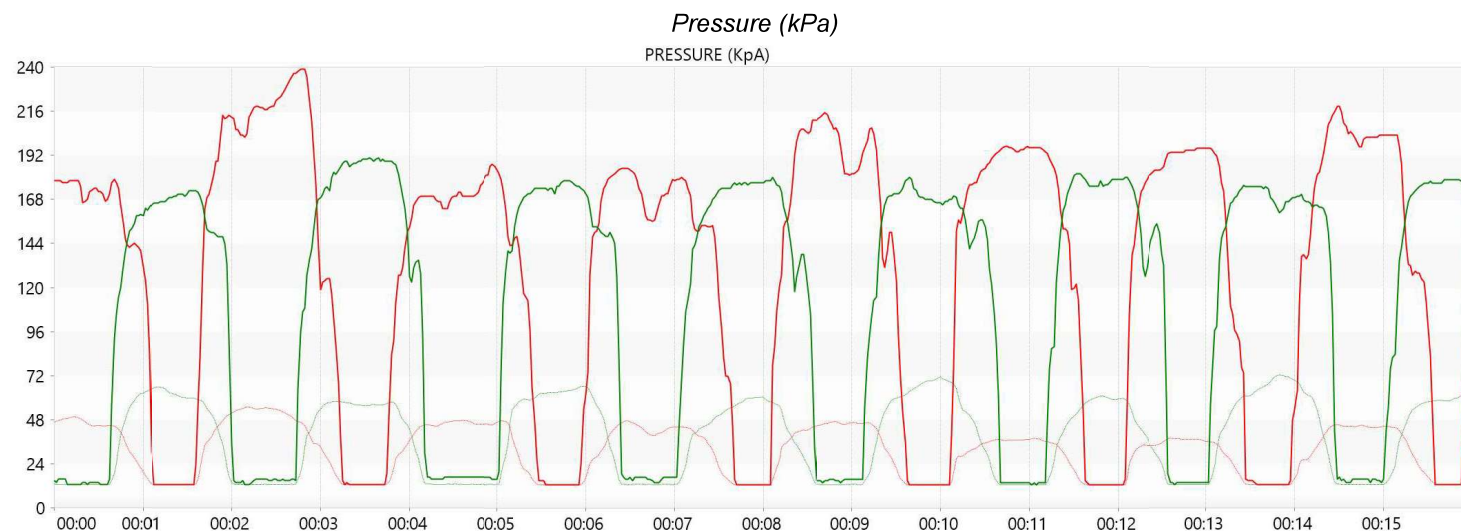
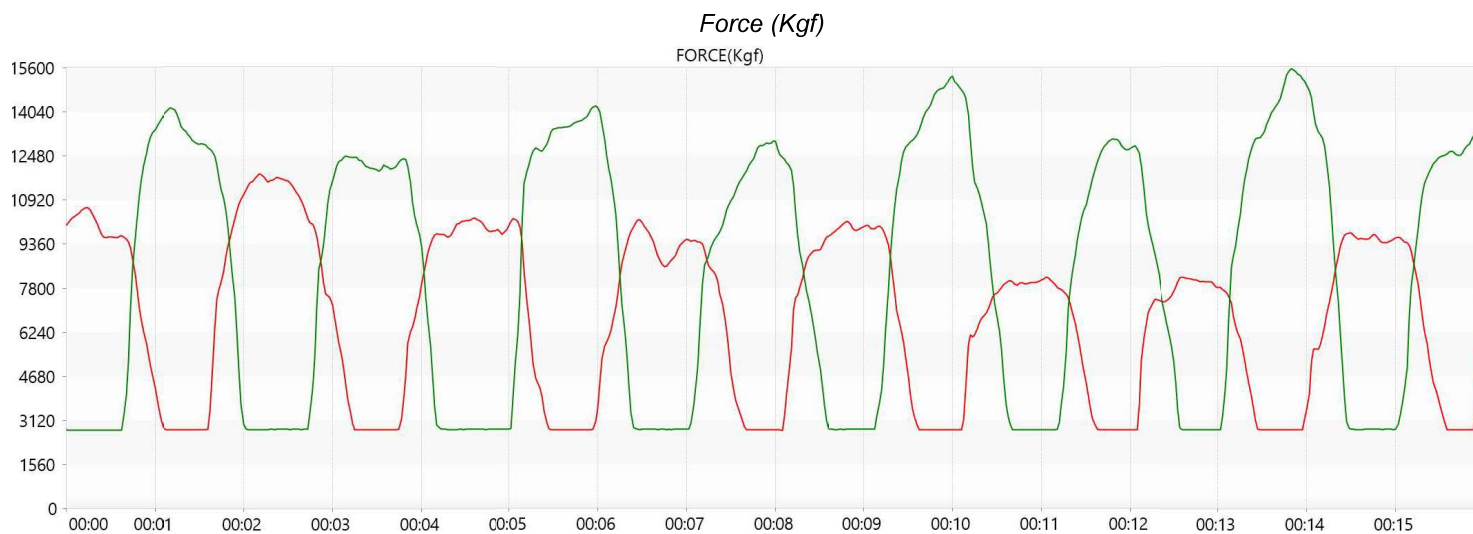
Patient code

00000001

Remote center

Remote code

FLEXINFIT



Analysis of 10/11/2019 10:48



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83401 Idaho Falls
Phone 208-561-2286

Sample Patient

Data di nascita
Altezza
Peso
Calzatura n°

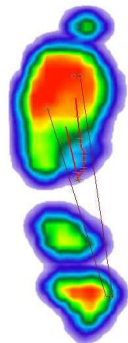
12/19/1981
68 inc
130 lb
W 8 US

Codice paziente
Centro remoto
Codice remoto

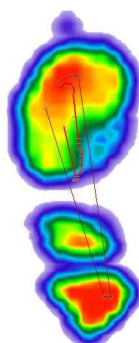
00000001

FLEXINFIT ANALYSIS

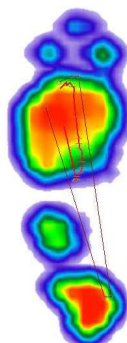
T: 1100 ms



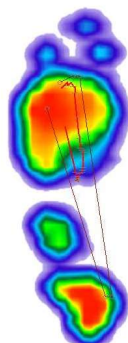
T: 1575 ms



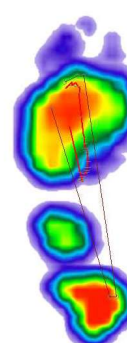
T: 1625 ms



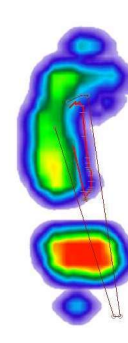
T: 1650 ms



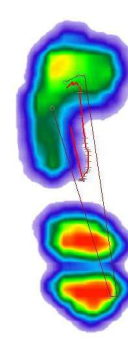
T: 1475 ms



T: 1450 ms



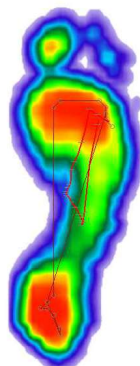
T: 1325 ms



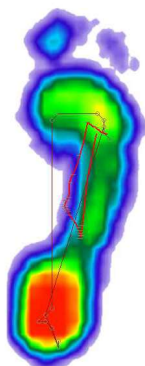
T: 1525 ms



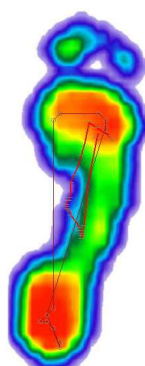
T: 1325 ms



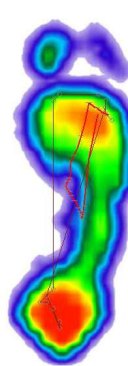
T: 1425 ms



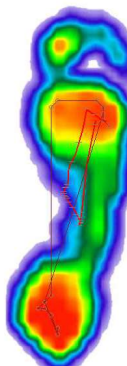
T: 1350 ms



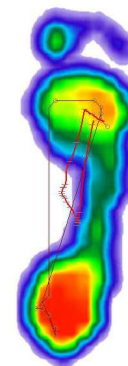
T: 1500 ms



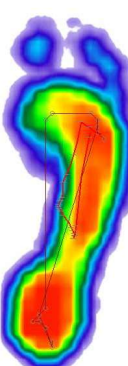
T: 1500 ms



T: 1350 ms



T: 1375 ms



T: 1175 ms



Analysis of 10/11/2019 10:48



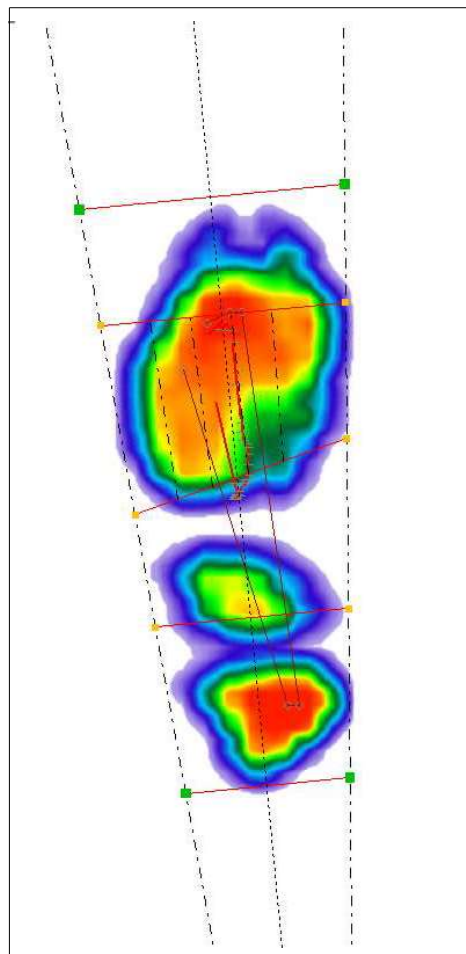
Sensor Medica USA LLC
966 E. Lincoln Rd. Ste C
83401 Idaho Falls
Phone 208-561-2286

Sample Patient

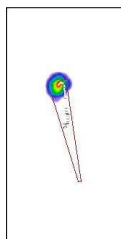
Birth date 12/19/1981
Height 68 inc
Weight 130 lb
Shoe Size W 8 US

Patient code 00000001
Remote center
Remote code

DYNAMIC ANALYSIS - Rockers

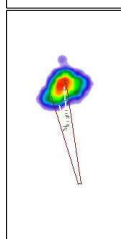
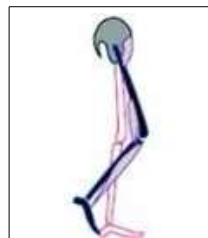


P. Max gr/cm² 1124
P. Avg. gr/cm² 330
Surface cm² 158
Total frames 51
Time (ms) 1275



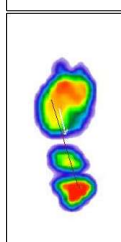
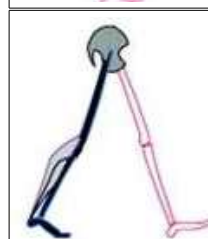
FFPOP

Frames:51-51
Duration:0 ms
0%



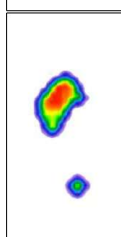
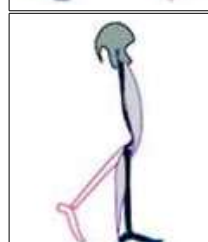
FFP

Frames:43-51
Duration:200 ms
16%



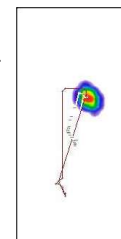
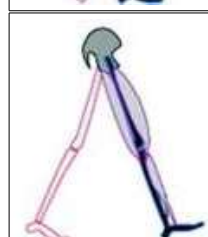
FFCP

Frames:0-43
Duration:1075 ms
84%



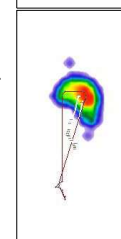
ICP

Frames:0-0
Duration:0 ms
0%



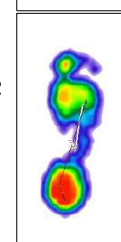
FFPOP

Frames:47-47
Duration:0 ms
0%



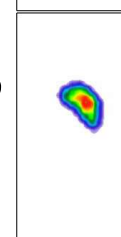
FFP

Frames:42-47
Duration:125 ms
11%



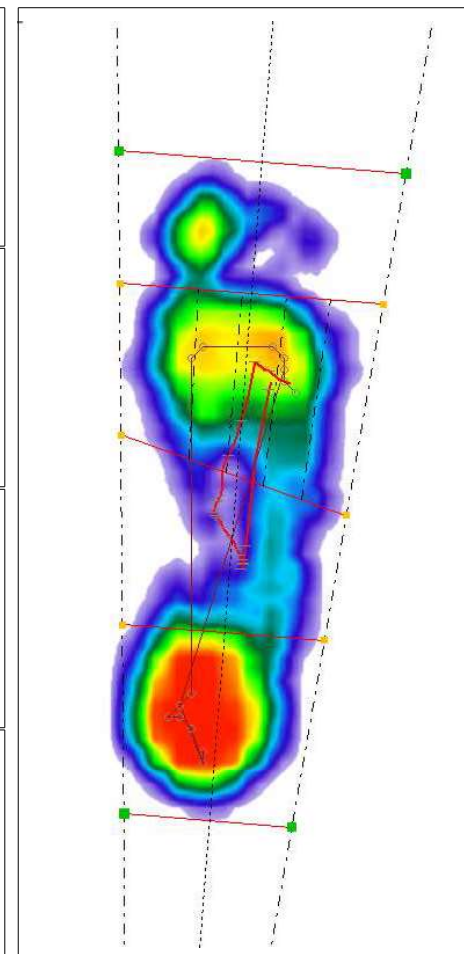
FFCP

Frames:0-42
Duration:1050 ms
89%



ICP

Frames:0-0
Duration:0 ms
0%



P. Max gr/cm² 864
P. Avg. gr/cm² 280
Surface cm² 202
Total frames 47
Time (ms) 1175



Analysis of 10/11/2019 10:48



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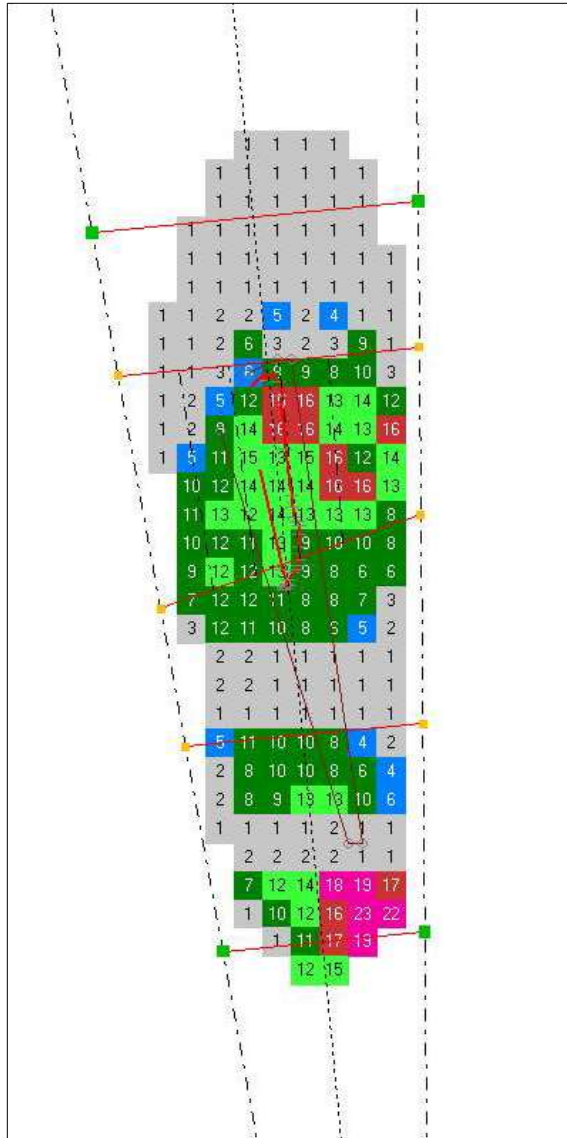
Sample Patient

Birth date
Height
Weight
Shoe Size

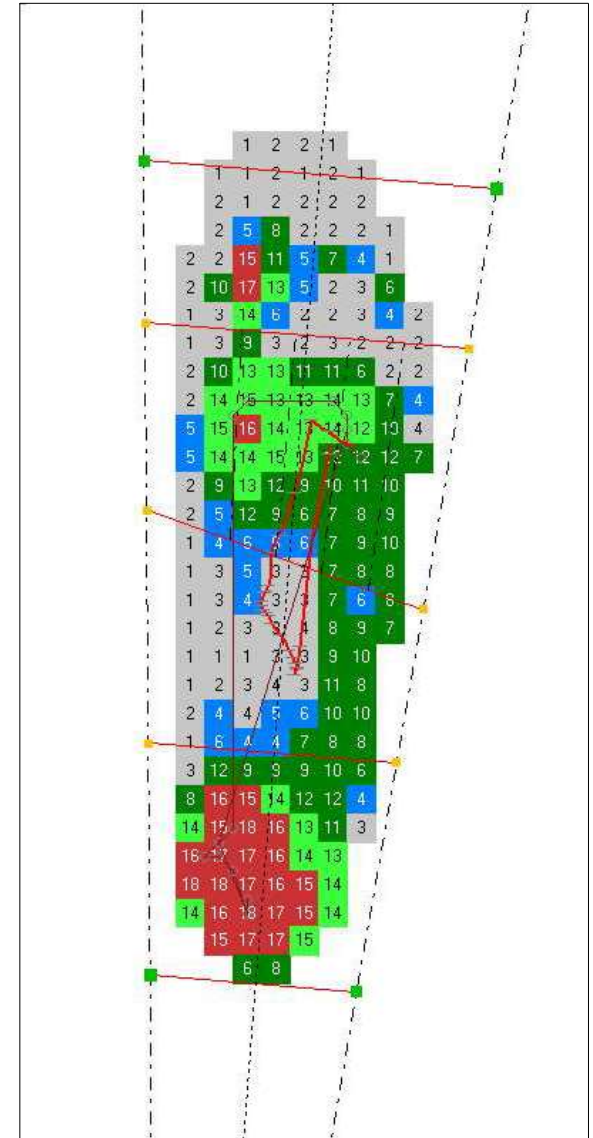
12/19/1981
68 inc
130 lb
W 8 US

Patient code
Remote center
Remote code

00000001



255	Footprint length mm	285
77	Delta CoF mm	90
30%	Global CoF index	32%
49%	Start CoF index	38%
21%	End CoF index	30%
6	Fick angle	5
Surface cm²		
21.00	Hallux	21.25
9.50	Toes T2 T3 T4 T5	14.25
16.00	Metatarsal head I	17.25
22.50	Metatarsal head II - III	26.00
24.00	Metatarsal head IV - V	27.50
16.75	Medial arch	22.00
13.00	Lateral arch	24.00
18.00	Medial heel	29.00
16.00	Lateral heel	21.00
Load %		
9.61%	Hallux	8.43%
3.32%	Toes T2 T3 T4 T5	2.06%
10.34%	Metatarsal head I	7.31%
21.64%	Metatarsal head II - III	17.95%
18.28%	Metatarsal head IV - V	12.07%
5.83%	Medial arch	4.47%
6.14%	Lateral arch	7.75%
15.53%	Medial heel	26.06%
8.04%	Lateral heel	13.92%



Analysis of 10/11/2019 10:48



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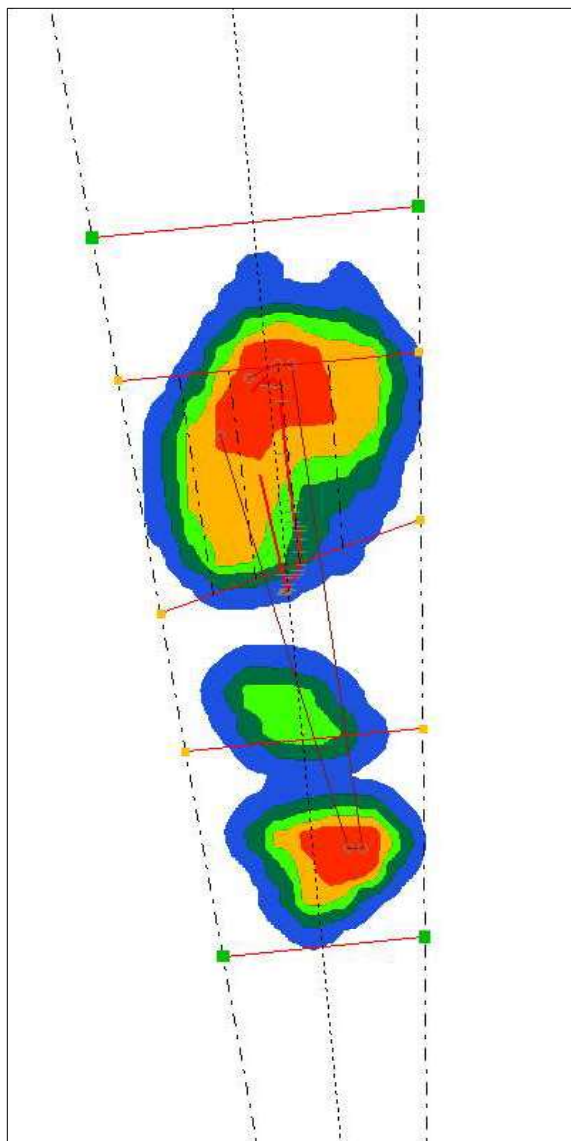
Sample Patient

Birth date
Height
Weight
Shoe Size

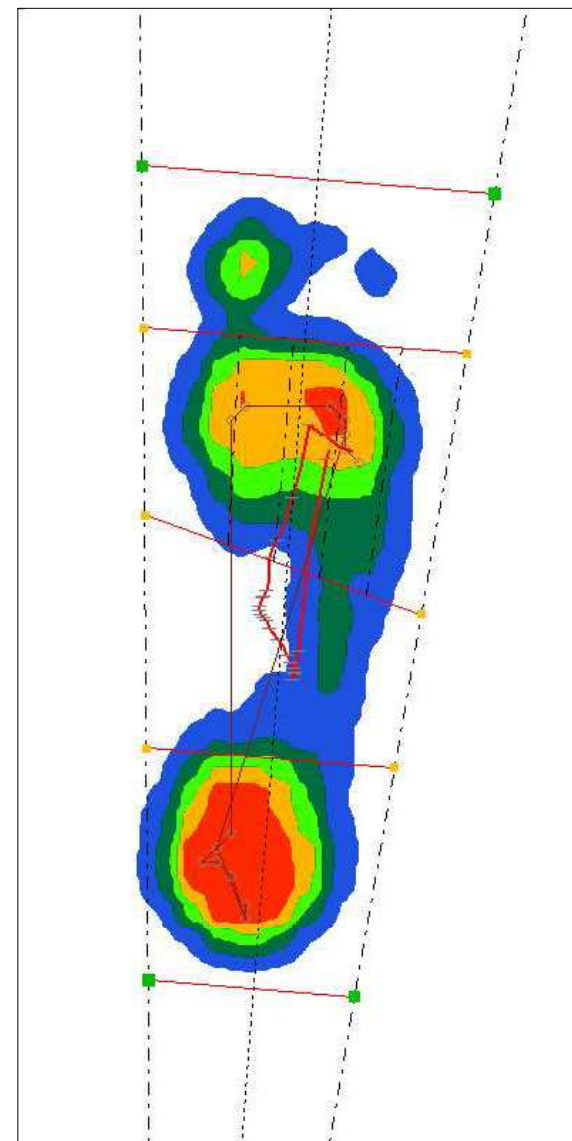
12/19/1981
68 inc
130 lb
W 8 US

Patient code
Remote center
Remote code

00000001

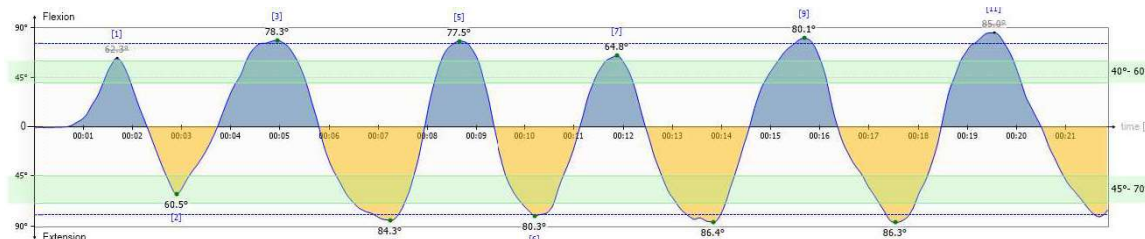
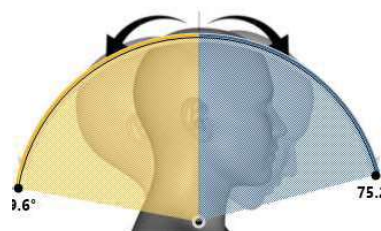


255	Footprint length mm	285
77	Delta CoF mm	90
30%	Global CoF index	32%
49%	Start CoF index	38%
21%	End CoF index	30%
6	Fick angle	5
Surface cm²		
21.00	Hallux	21.25
9.50	Toes T2 T3 T4 T5	14.25
16.00	Metatarsal head I	17.25
22.50	Metatarsal head II - III	26.00
24.00	Metatarsal head IV - V	27.50
16.75	Medial arch	22.00
13.00	Lateral arch	24.00
18.00	Medial heel	29.00
16.00	Lateral heel	21.00
Load %		
9.61%	Hallux	8.43%
3.32%	Toes T2 T3 T4 T5	2.06%
10.34%	Metatarsal head I	7.31%
21.64%	Metatarsal head II - III	17.95%
18.28%	Metatarsal head IV - V	12.07%
5.83%	Medial arch	4.47%
6.14%	Lateral arch	7.75%
15.53%	Medial heel	26.06%
8.04%	Lateral heel	13.92%



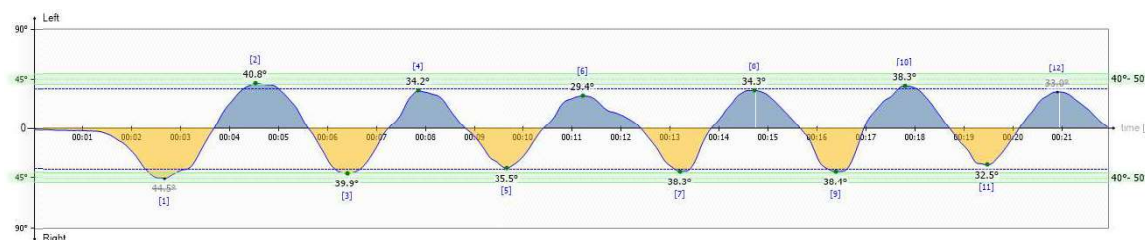
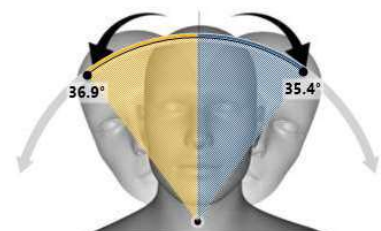
Analysis of 10/11/2019 10:48

Cervical Rang of Motion



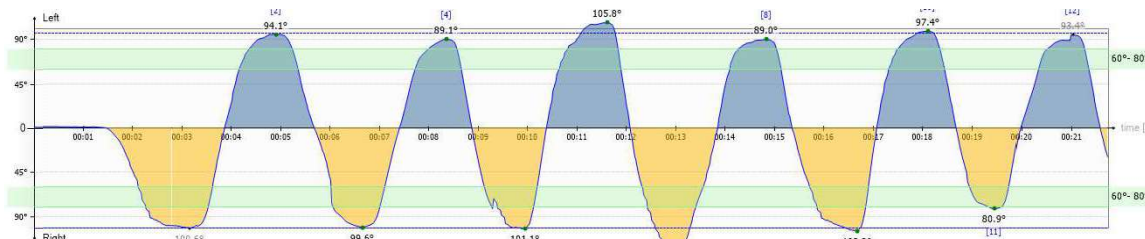
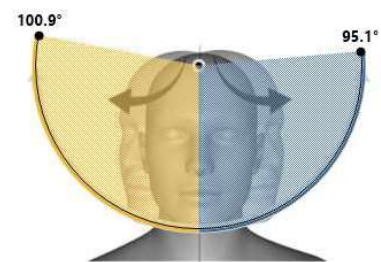
Maximum: 80.1
Average: 75.2

Total angle
154.8



Maximum: 40.8
Average: 35.4

Total angle
72.3

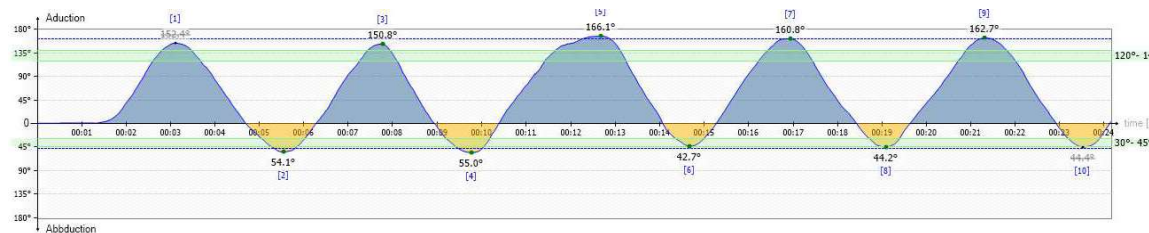
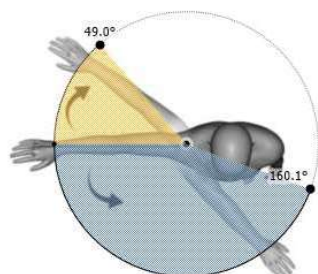


Maximum: 105.8
Average: 95.1

Total angle
196.0

Maximum: 119.5
Average: 100.9

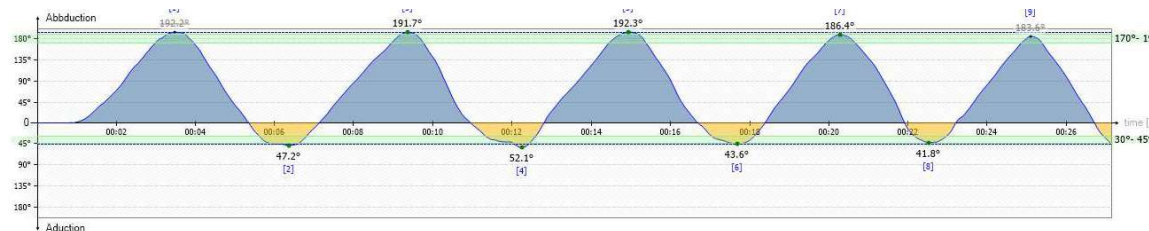
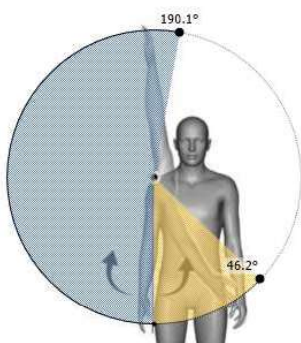
ROM Right Shoulder



Maximum: 166.1
Average: 160.1

Total angle
209.1

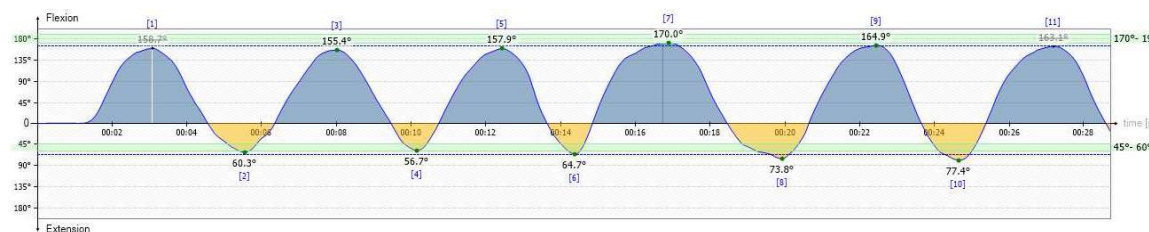
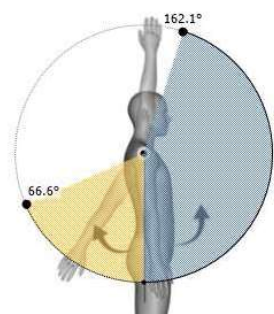
Maximum: 55.0
Average: 49.0



Maximum: 192.3
Average: 190.1

Total angle
236.3

Maximum: 52.1
Average: 46.2

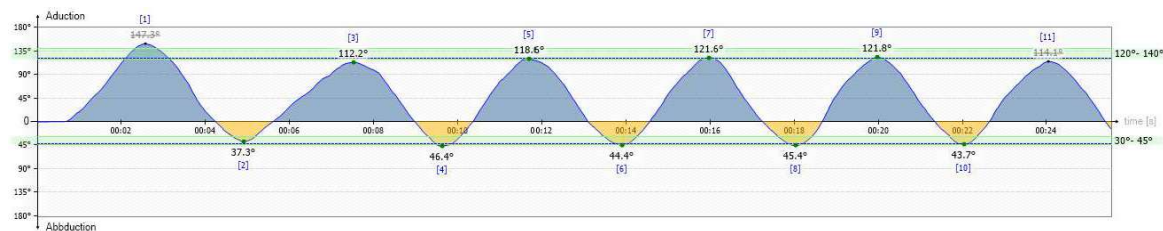
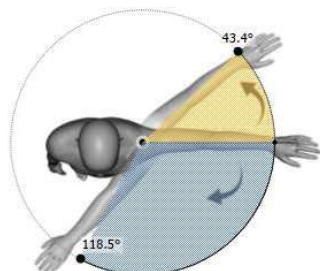


Maximum: 170.0
Average: 162.1

Total angle
228.7

Maximum: 77.4
Average: 66.6

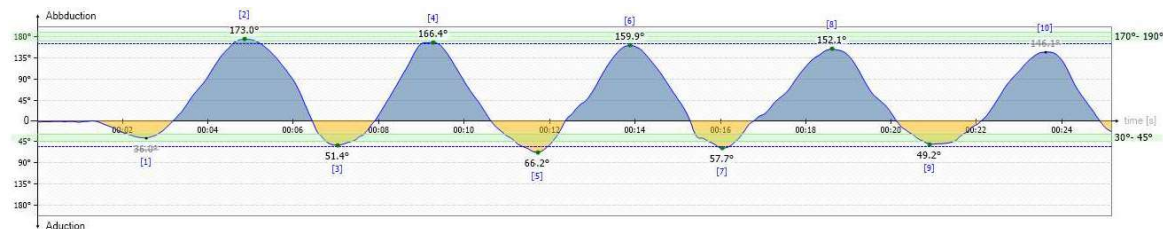
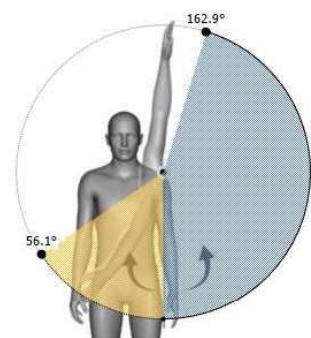
ROM Left Shoulder



Maximum: 121.8
Average: 118.5

Total angle
161.9

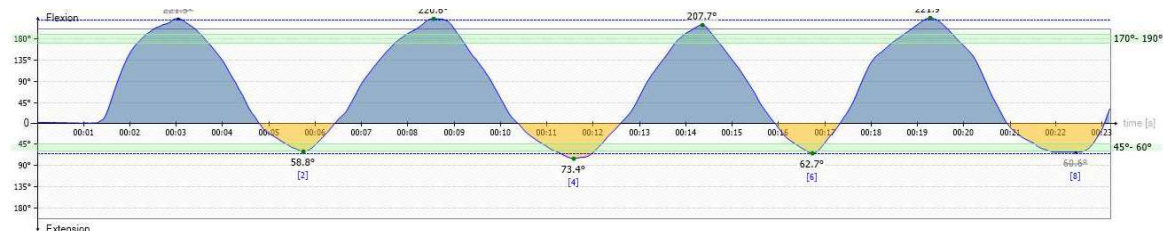
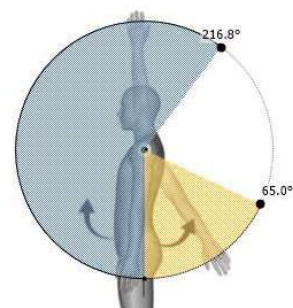
Maximum: 46.4
Average: 43.4



Maximum: 173.0
Average: 162.9

Total angle
219.0

Maximum: 66.2
Average: 56.1

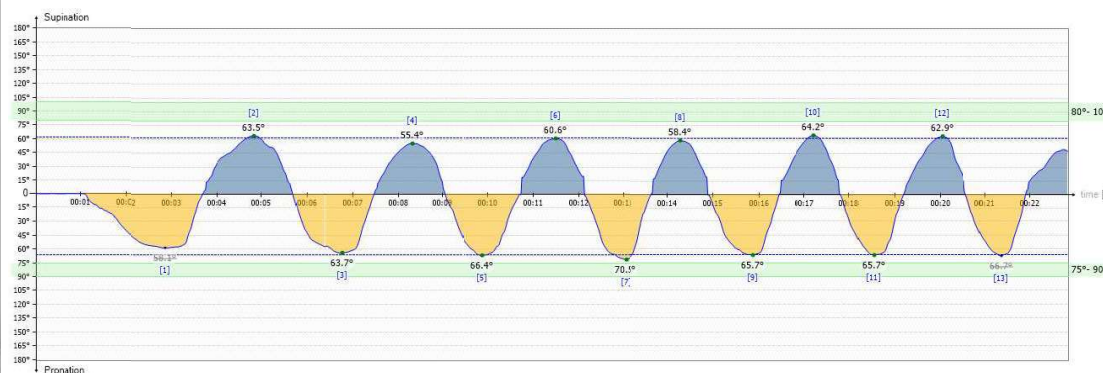
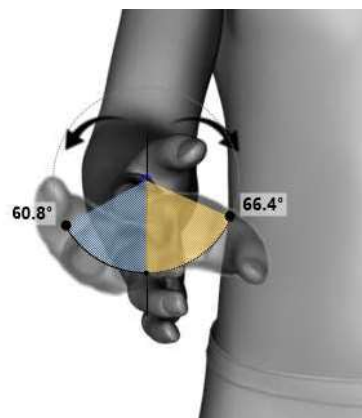


Maximum: 221.9
Average: 216.8

Total angle
281.8

Maximum: 73.4
Average: 65.0

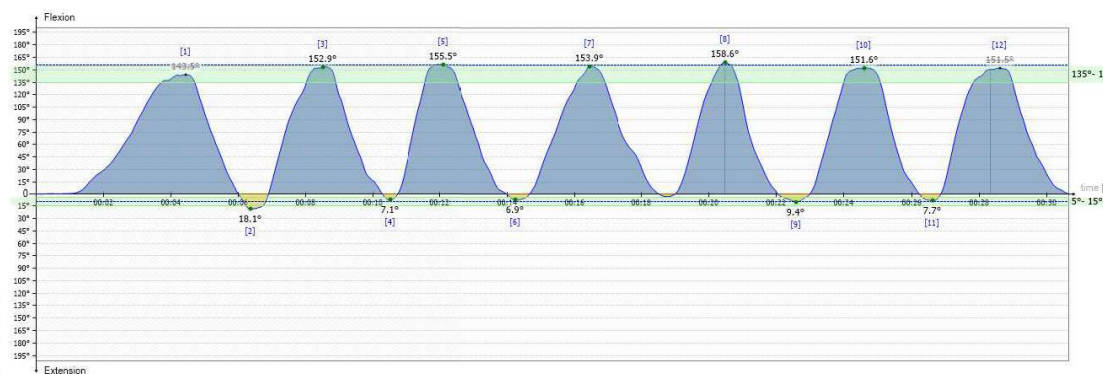
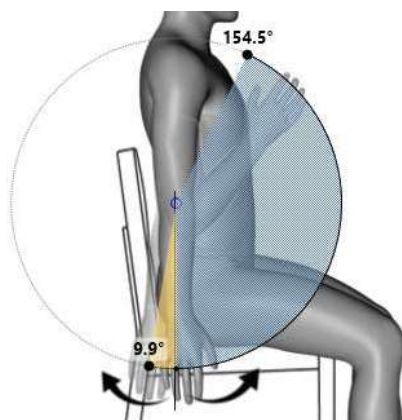
Right Elbow ROM



Maximum: **64.2**
Average: **60.8**

Total angle
127.2

Maximum: **70.5**
Average: **66.4**

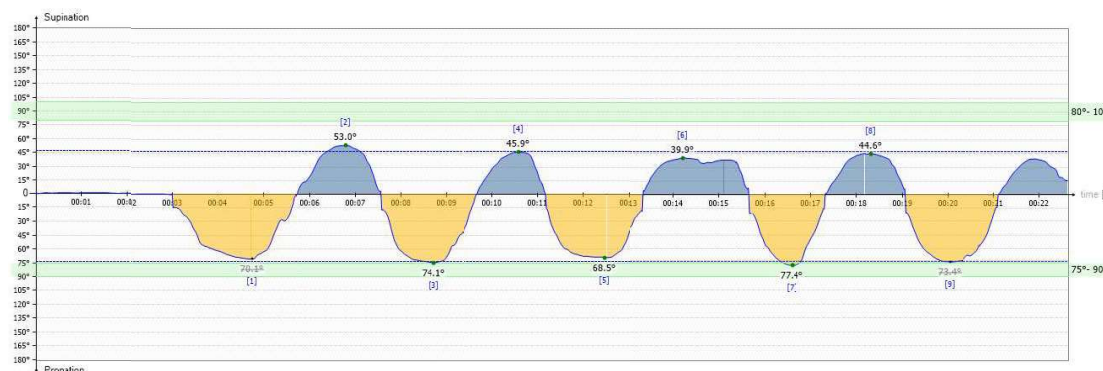
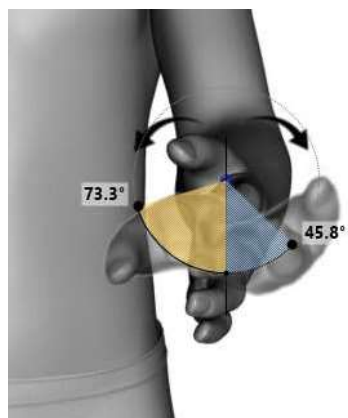


Maximum: **158.6**
Average: **154.5**

Total angle
164.4

Maximum: **18.1**
Average: **9.9**

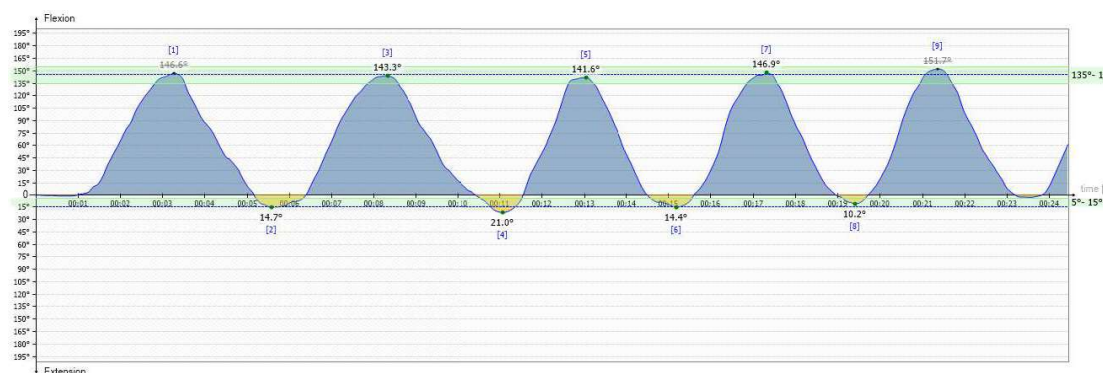
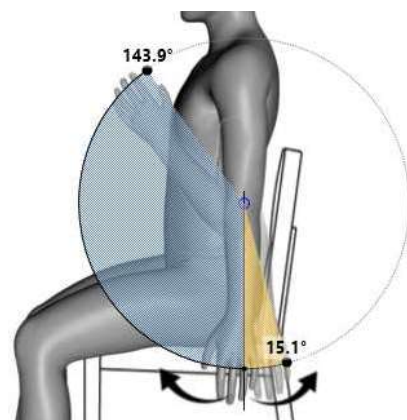
ROM Left Elbow



Maximum: **53.0**
Average: **45.8**

Total angle
119.1

Maximum: **77.4**
Average: **73.3**

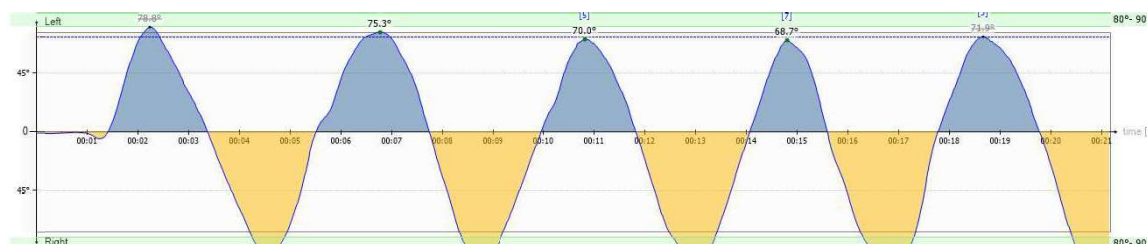
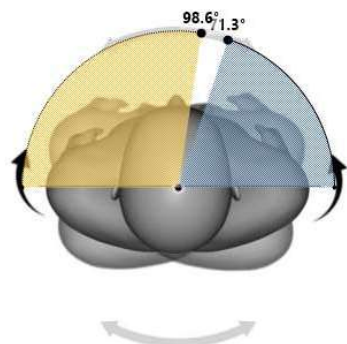


Maximum: **146.9**
Average: **143.9**

Total angle
159.0

Maximum: **21.0**
Average: **15.1**

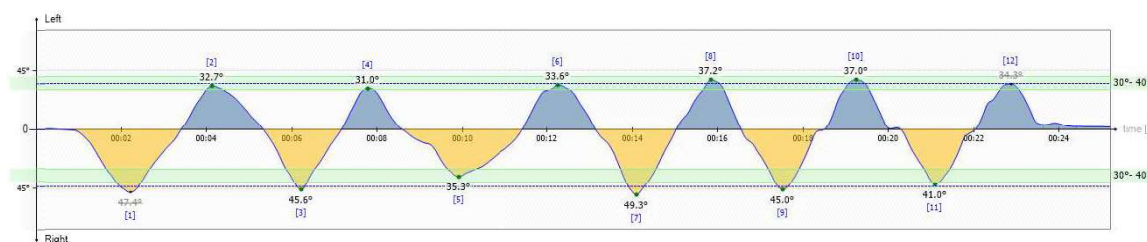
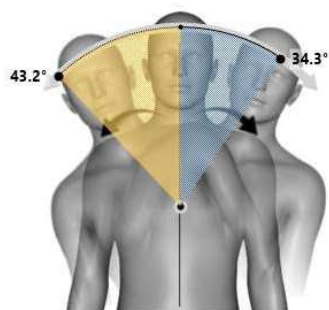
Dorsal ROM



Maximum: **75.3**
Average: **71.3**

Total angle
169.9

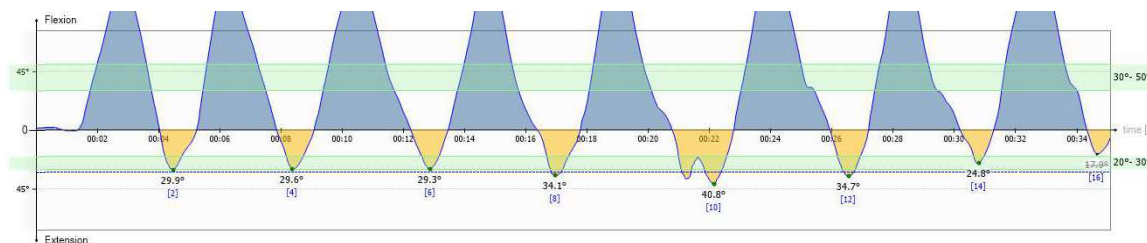
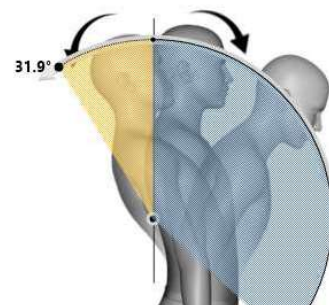
Maximum: **102.8**
Average: **98.6**



Maximum: **37.2**
Average: **34.3**

Total angle
77.5

Maximum: **49.3**
Average: **43.2**



Maximum: **139.5**
Average: **132.5**

Total angle
164.4

Maximum: **40.8**
Average: **31.9**

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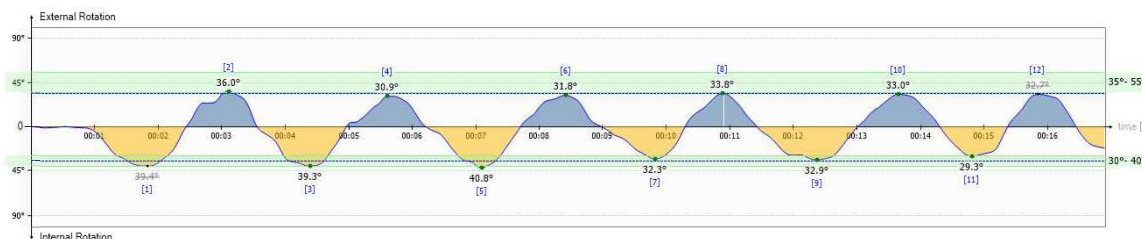
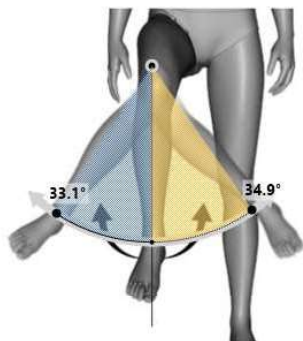
Sensor Medica USA LLC
966 E. Lincoln Rd. Ste C
83401 Idaho Falls
Phone 208-561-2286

ROM Sample Patient

Birth date 12/17/2005
Height 50 inc
Weight 53 lb
Shoe Size W 4.5 US

Patient code 00000005
Remote center 00000193
Remote code 00003874

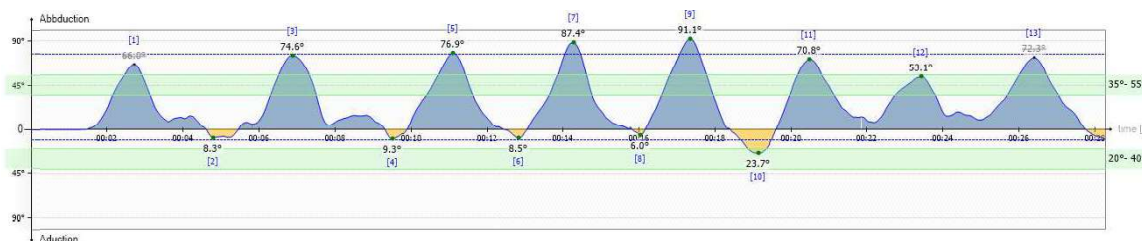
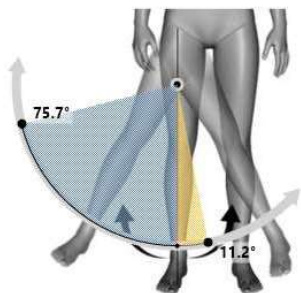
ROM Right Hip



Maximum: **36.0**
Average: **33.1**

Total angle
68.0

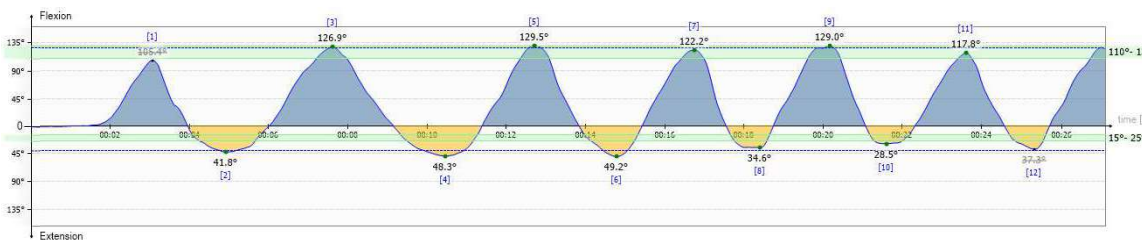
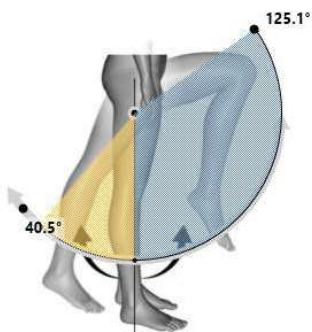
Maximum: **40.8**
Average: **34.9**



Maximum: **91.1**
Average: **75.7**

Total angle
86.9

Maximum: **23.7**
Average: **11.2**



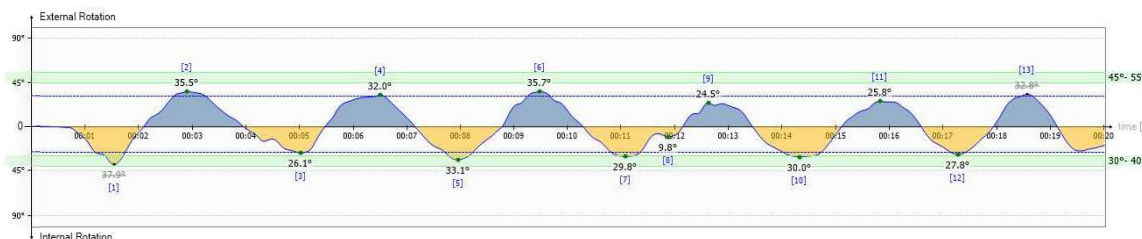
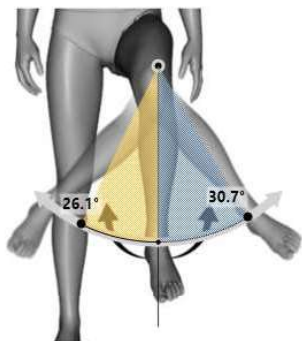
Maximum: **129.5**
Average: **125.1**

Total angle
165.6

Maximum: **49.2**
Average: **40.5**

Analysis of 04/05/2016 21:44

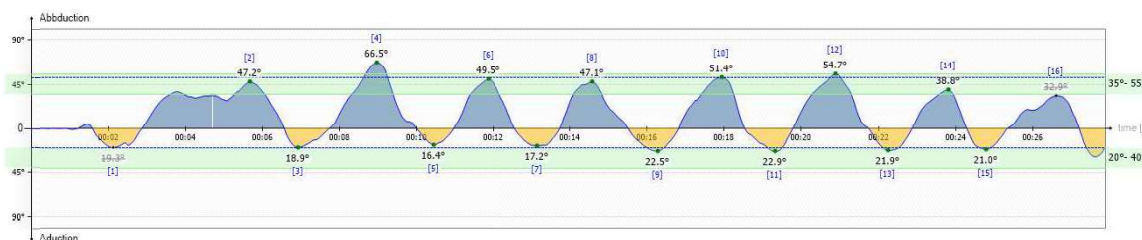
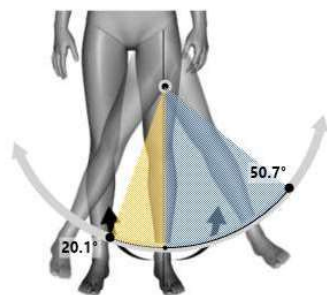
ROM Left Hip



Maximum: **35.7**
Average: **30.7**

Total angle
56.8

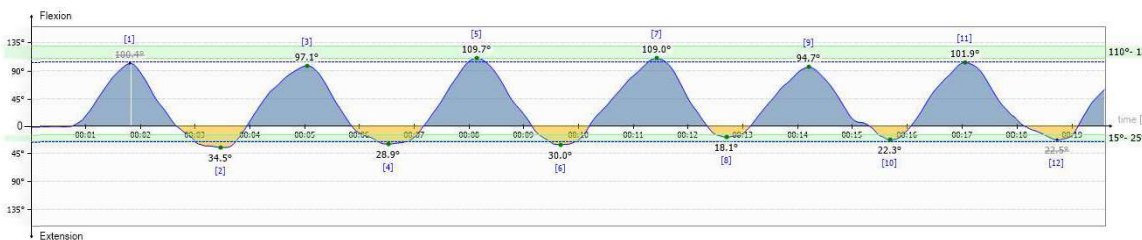
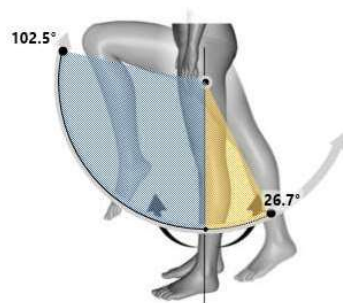
Maximum: **33.1**
Average: **26.1**



Maximum: **66.5**
Average: **50.7**

Total angle
70.8

Maximum: **22.9**
Average: **20.1**



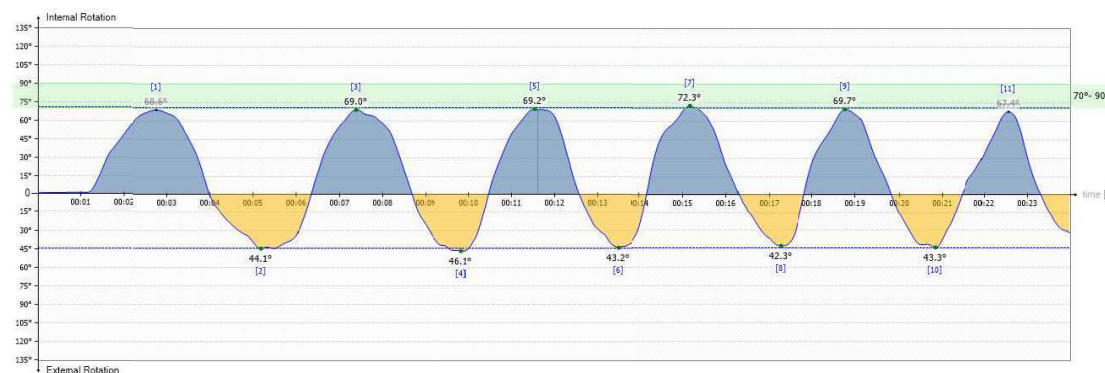
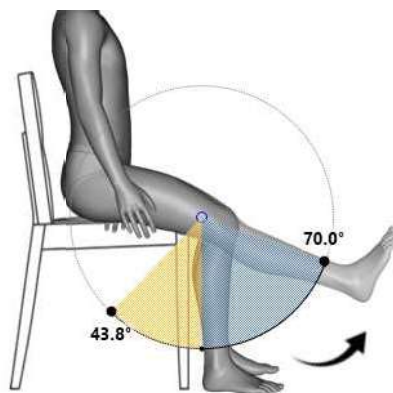
Maximum: **109.7**
Average: **102.5**

Total angle
129.2

Maximum: **34.5**
Average: **26.7**

Analysis of 04/05/2016 21:44

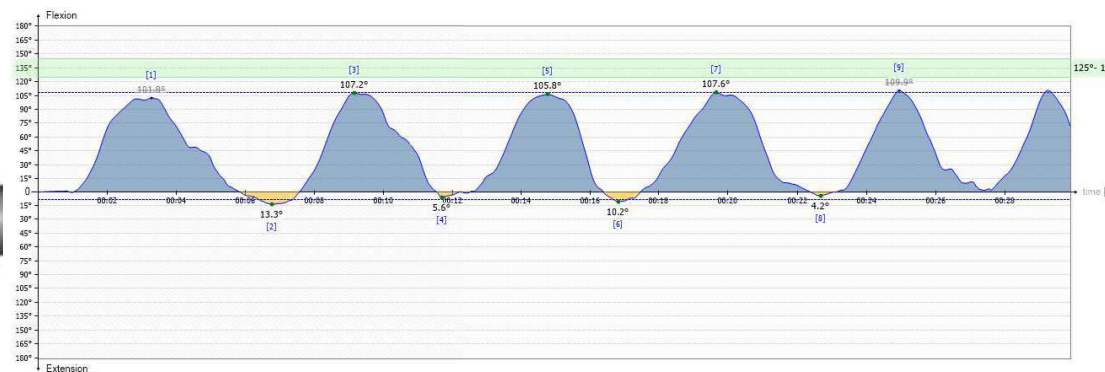
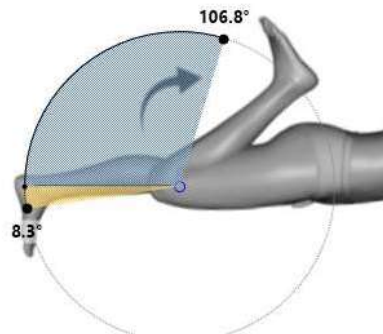
ROM Right Knee



Maximum: **72.3**
Average: **70.0**

Total angle
113.8

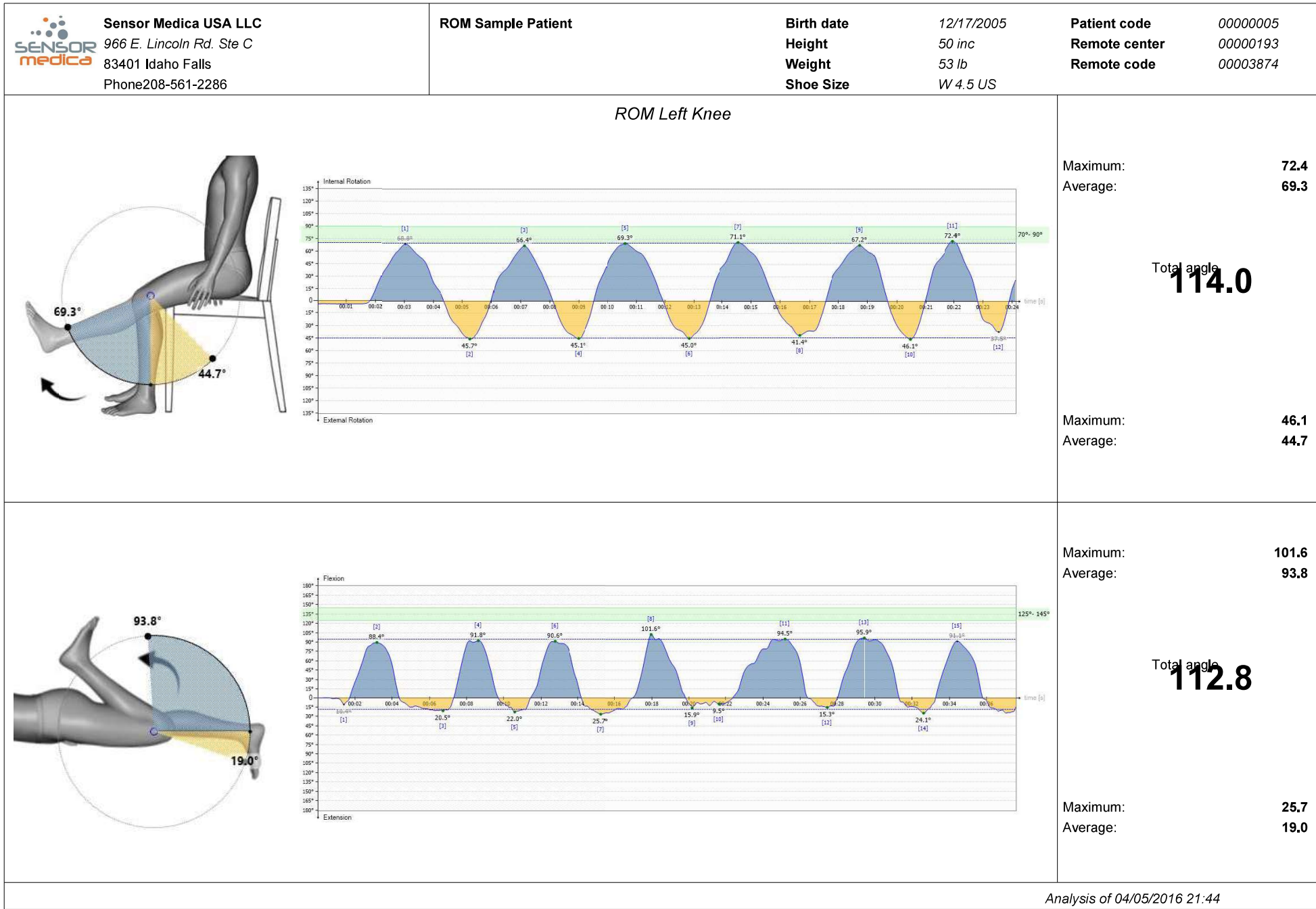
Maximum: **46.1**
Average: **43.8**

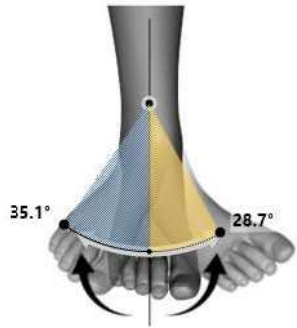
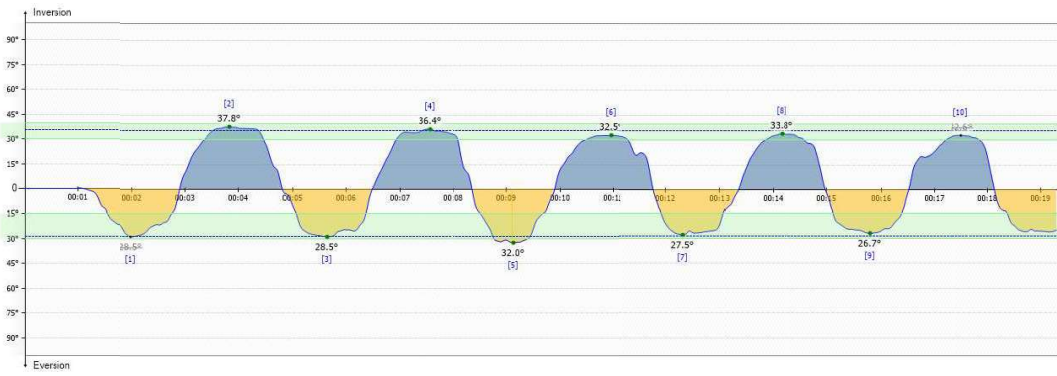
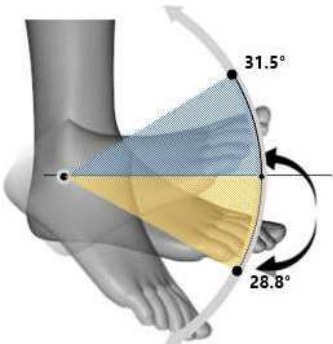
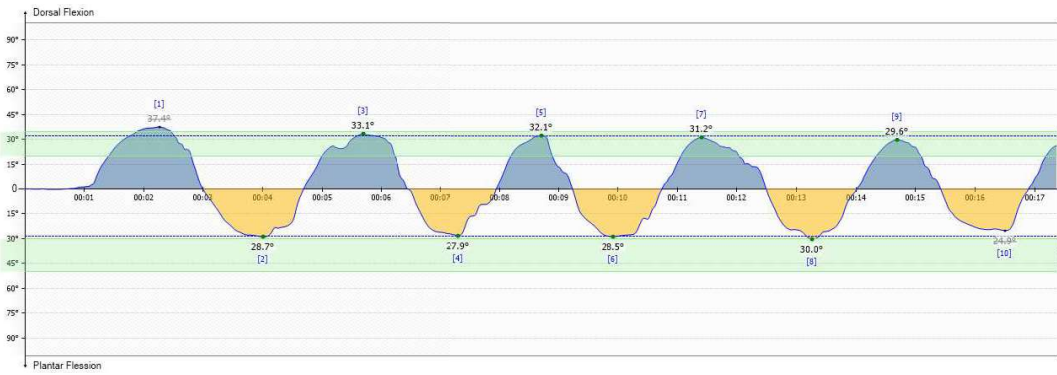


Maximum: **107.6**
Average: **106.8**

Total angle
115.1

Maximum: **13.3**
Average: **8.3**



 Sensor Medica USA LLC 966 E. Lincoln Rd. Ste C 83401 Idaho Falls Phone208-561-2286	ROM Sample Patient	Birth date 12/17/2005 Height 50 inc Weight 53 lb Shoe Size W 4.5 US	Patient code 00000005 Remote center 00000193 Remote code 00003874
Right Ankle ROM			
		Maximum: 37.8 Average: 35.1 Total angle 63.8	Maximum: 32.0 Average: 28.7
		Maximum: 33.1 Average: 31.5 Total angle 60.3	Maximum: 30.0 Average: 28.8

Analysis of 04/05/2016 21:44

Analysis of 04/05/2016 21:44



Sensor Medica USA LLC
966 E. Lincoln Rd. Ste C
83401 Idaho Falls
Phone 208-561-2286

ROM Sample Patient

Birth date
Height
Weight
Shoe Size

12/17/2005
50 inc
53 lb
W 4.5 US

Patient code
Remote center
Remote code

00000005
00000193
00003874

ROM Right Shoulder

Extension Flexion	66.6	162.1
Adduction Abduction	46.2	190.1
retropulsion antepulsion	49.0	160.1
Internal-External Rotation (arm to the body)	---	---
Internal-External Rotation (arm abducted)	---	---

Cervical ROM

Rotate Right Left	100.9	95.1
Tilt Right Left	36.9	35.4
Flexion Extension	79.6	75.2

ROM Left Shoulder

Extension Flexion	65.0	216.8
Adduction Abduction	56.1	162.9
retropulsion antepulsion	43.4	118.5
Internal-External Rotation (arm to the body)	---	---
Internal-External Rotation (arm abducted)	---	---

Right elbow ROM

Extension Flexion	9.9	154.5
Supination Pronation	66.4	60.8

Left elbow ROM

Extension Flexion	15.1	143.9
Supination Pronation	73.3	45.8

Back ROM

Extension Flexion	132.5	31.9
Tilt Right-Left	34.3	43.2
Rotation Right-Left	71.3	98.6

Lumbar ROM

Extension Flexion	---	---
Tilt Right-Left	---	---
Rotation Right-Left	---	---

Right Hip ROM

Extension Flexion	40.5	125.1
Adduction Abduction	11.2	75.7
Internal External rotation	34.9	33.1

Left Hip ROM

Extension Flexion	26.7	102.5
Adduction Abduction	20.1	50.7
Internal External rotation	26.1	30.7

Right Knee ROM

Flexion	8.3	106.8
Internal External rotation	43.8	70.0

ROM Left Knee

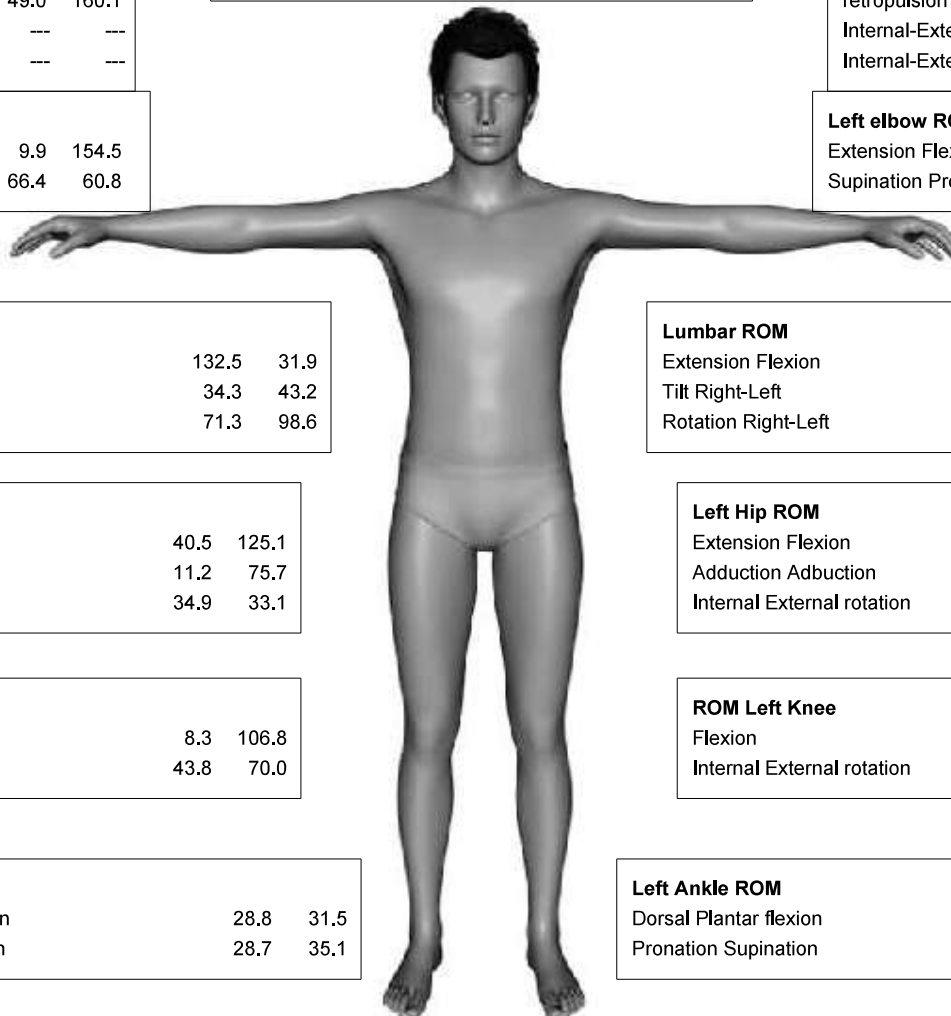
Flexion	19.0	93.8
Internal External rotation	44.7	69.3

Right Ankle ROM

Dorsal Plantar flexion	28.8	31.5
Pronation Supination	28.7	35.1

Left Ankle ROM

Dorsal Plantar flexion	39.6	16.9
Pronation Supination	16.5	25.8



Analysis of 04/05/2016 21:44



Sensor Medica USA LLC
966 E. Lincoln Rd. Ste C
83401 Idaho Falls
Phone 208-561-2286

Sample Patient

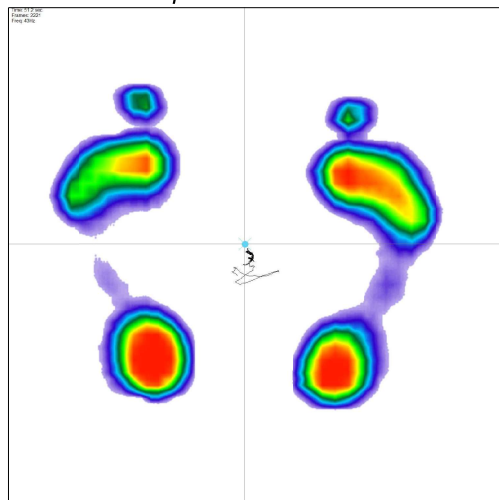
Birth date
Height
Weight
Shoe Size

12/19/1981
68 inc
130 lb
W 8 US

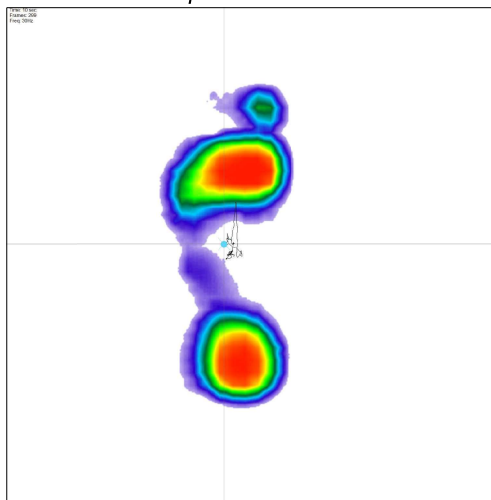
Patient code
Remote center
Remote code

00000001

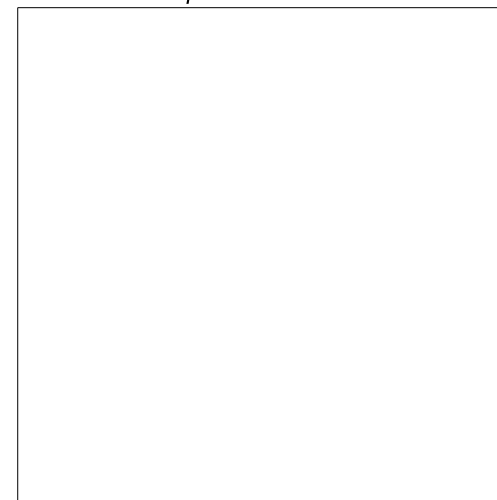
Bipodal OE - 51.2 sec.



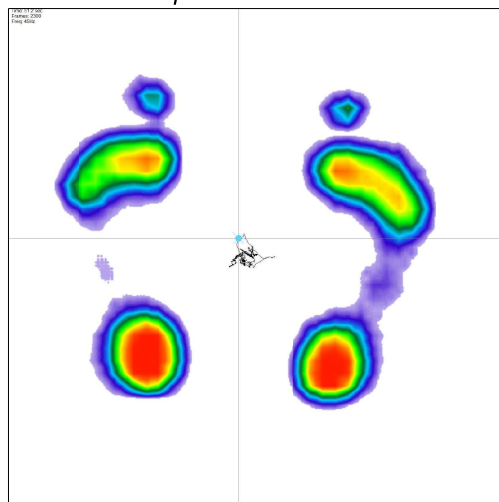
Monopodal LF OE - 10 sec.



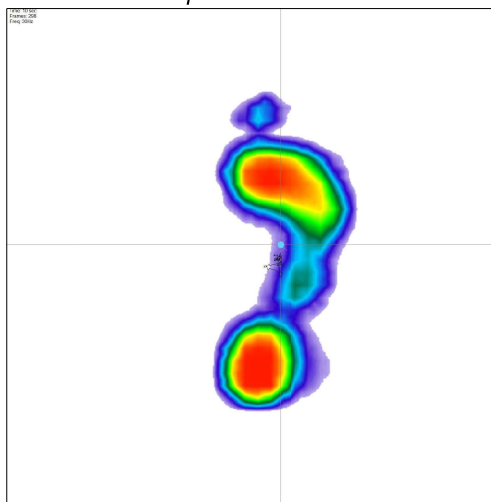
Monopodal LF CE - 0.001 sec.



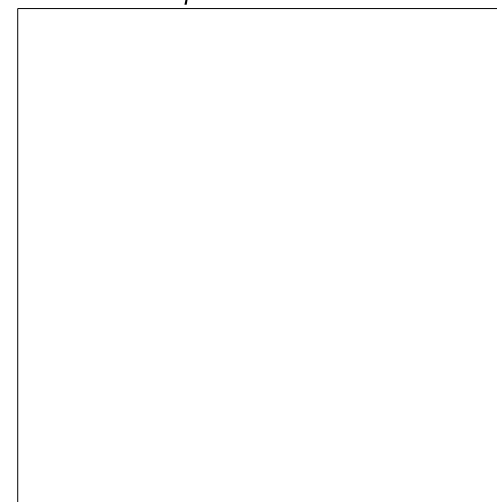
Bipodal CE - 51.2 sec.



Monopodal RF OE - 10 sec.



Monopodal RF CE - 0.001 sec.



Sway Test

Analysis of 16/08/2010 10.16



Sensor Medica USA LLC
966 E. Lincoln Rd. Ste C
83401 Idaho Falls
Phone 208-561-2286

Sample Patient

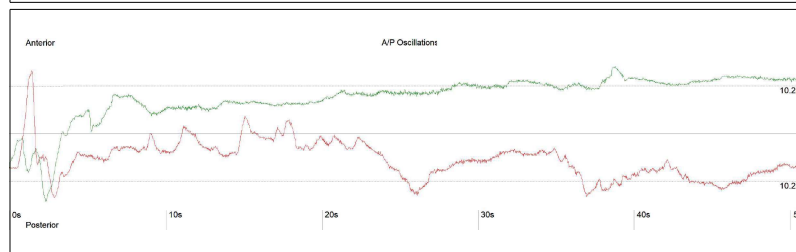
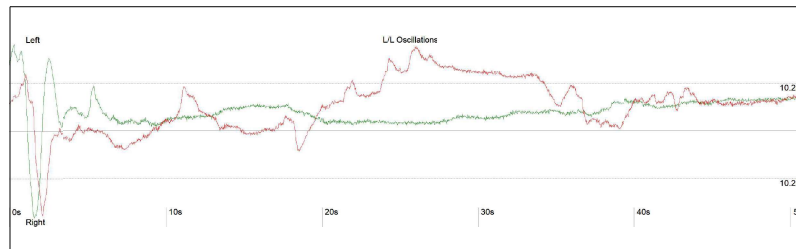
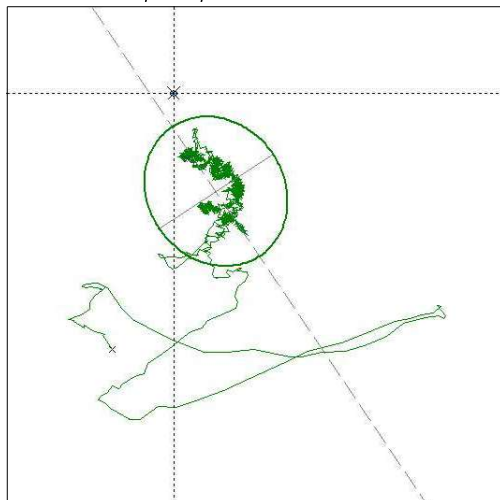
Birth date
Height
Weight
Shoe Size

12/19/1981
68 inc
130 lb
W 8 US

Patient code
Remote center
Remote code

00000001

Ellipse Bipodalic OE - 51.2 sec.



Numerical values

Sway length mm	890.96	1012.56
Ellipse surface mm ²	162.58	449.12
Ellipse inclination °	124	36
Ellipse eccentricity °	0.49	0.33
L/S ratio	5.48	2.25
Delta X mm	37.32	36.25
Delta Y mm	28.82	27.19
Major axis mm	15.42	24.64
Minor axis mm	13.42	23.20
Max oscillation mm	3.70	5.80
Min oscillation mm	0.00	0.01
Average speed mm/s	17.15	19.65
RMS mm	0.512	0.539
RMS X mm	0.415	0.391
RMS Y mm	0.3	0.371
Standard deviation X mm	2.987	5.483
Standard deviation Y mm	4.064	3.948

Ellipse center reference:

Avg X mm	-0.05	0.01
Avg Y mm	0.01	-0.02

Polygon plate reference:

Avg X mm	4.15	5.01
Avg Y mm	-9.69	-15.52

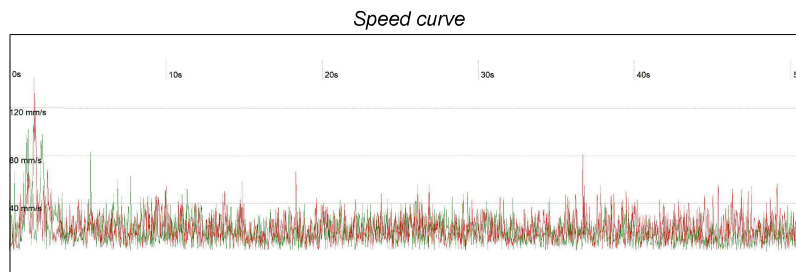
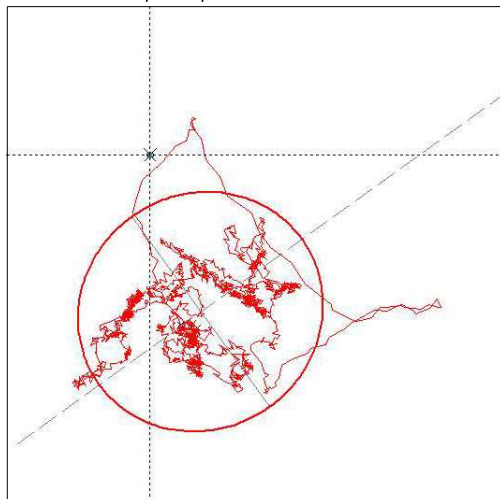
Romberg Index

Ellipse surface mm ²	276
Average speed	115
Sway length	114

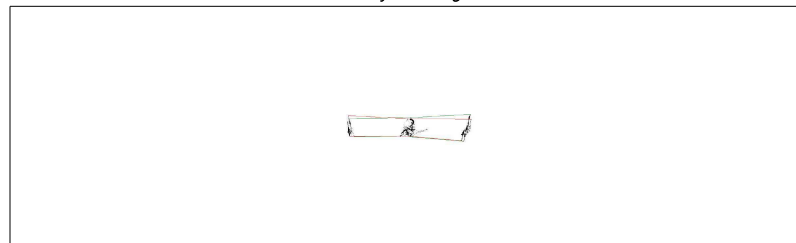
Filters:

Raw Data

Ellipse Bipodalic CE - 51.2 sec.



Sway rectangle



- +

Bipodalic OE - 51.2 sec./Bipodalic CE - 51.2 sec.

Analysis of 16/08/2010 10.16



Sensor Medica USA LLC
966 E. Lincoln Rd. Ste C
83401 Idaho Falls
Phone 208-561-2286

Sample Patient

Birth date

12/19/1981

Patient code

00000001

Height

68 inc

Remote center

Weight

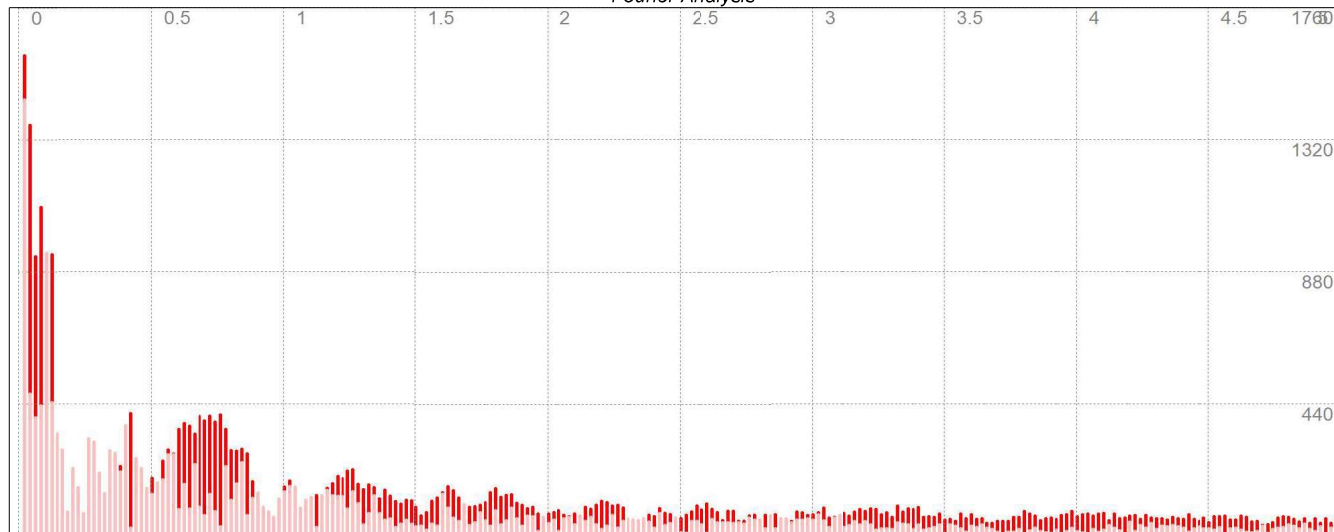
130 lb

Remote code

Shoe Size

W 8 US

Fourier Analysis



Power spectrum



Bipodalic OE - 51.2 sec.

Bipodalic CE - 51.2 sec.

Numerical values

Sway length mm	890.96	1012.56
Ellipse surface mm²	162.58	449.12
L/S ratio	5.48	2.25
Ellipse inclination °	124	36
Ellipse eccentricity°	0.49	0.33

Delta X mm	37.32	36.25
Delta Y mm	28.82	27.19

Major axis mm	15.42	24.64
Minor axis mm	13.42	23.20

Max oscillation mm	3.70	5.80
Min oscillation mm	0.00	0.01

Average speed mm/s	17.15	19.65
--------------------	-------	-------

RMS mm	0.512	0.539
--------	-------	-------

RMS X mm	0.415	0.391
----------	-------	-------

RMS Y mm	0.3	0.371
----------	-----	-------

Standard deviation X mm	2.987	5.483
-------------------------	-------	-------

Standard deviation Y mm	4.064	3.948
-------------------------	-------	-------

Ellipse center reference:

Avg X mm	-0.05	0.01
----------	-------	------

Avg Y mm	0.01	-0.02
----------	------	-------

Polygon plate reference:

Avg X mm	4.15	5.01
----------	------	------

Avg Y mm	-9.69	-15.52
----------	-------	--------

Romberg Index

Ellipse surface mm²	276
---------------------	------------

Average speed	115
---------------	------------

Sway length	114
-------------	------------

Filters:

Raw Data

Bipodalic OE - 51.2 sec. - Bipodalic CE - 51.2 sec.

Analysis of 16/08/2010 10.16



Sensor Medica USA LLC
966 E. Lincoln Rd. Ste C
83401 Idaho Falls
Phone 208-561-2286

Sample Patient

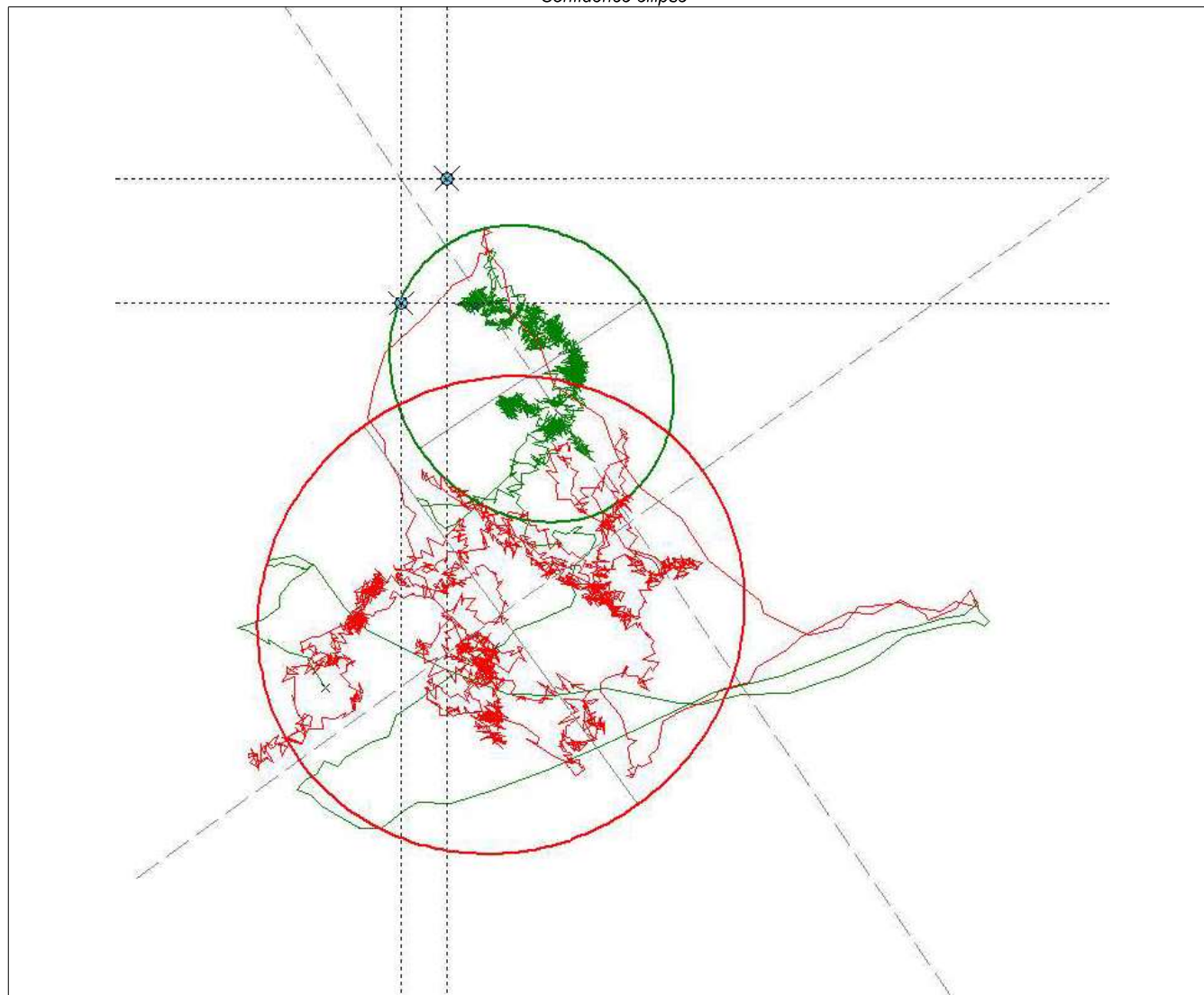
Birth date
Height
Weight
Shoe Size

12/19/1981
68 inc
130 lb
W 8 US

Patient code
Remote center
Remote code

00000001

Confidence ellipse



— Bipodalic OE - 51.2 sec.

— Bipodalic CE - 51.2 sec.

Numerical values

Sway length mm	890.96	1012.56
Ellipse surface mm ²	162.58	449.12
L/S ratio	5.48	2.25
Ellipse inclination °	124	36
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Avg Y mm	0.01	-0.02

Polygon plate reference:

Avg X mm	4.15	5.01
Avg Y mm	-9.69	-15.52

Romberg Index

Ellipse surface mm ²	276
Average speed	115
Sway length	114

Filters:

Raw Data

Bipodalic OE - 51.2 sec. - Bipodalic CE - 51.2 sec.

Analysis of 16/08/2010 10:16



Sensor Medica USA LLC

966 E. Lincoln Rd. Ste C

83401 Idaho Falls

Phone 208-561-2286

Sample Patient

Birth date

12/19/1981

Patient code

00000001

Height

68 inc

Remote center

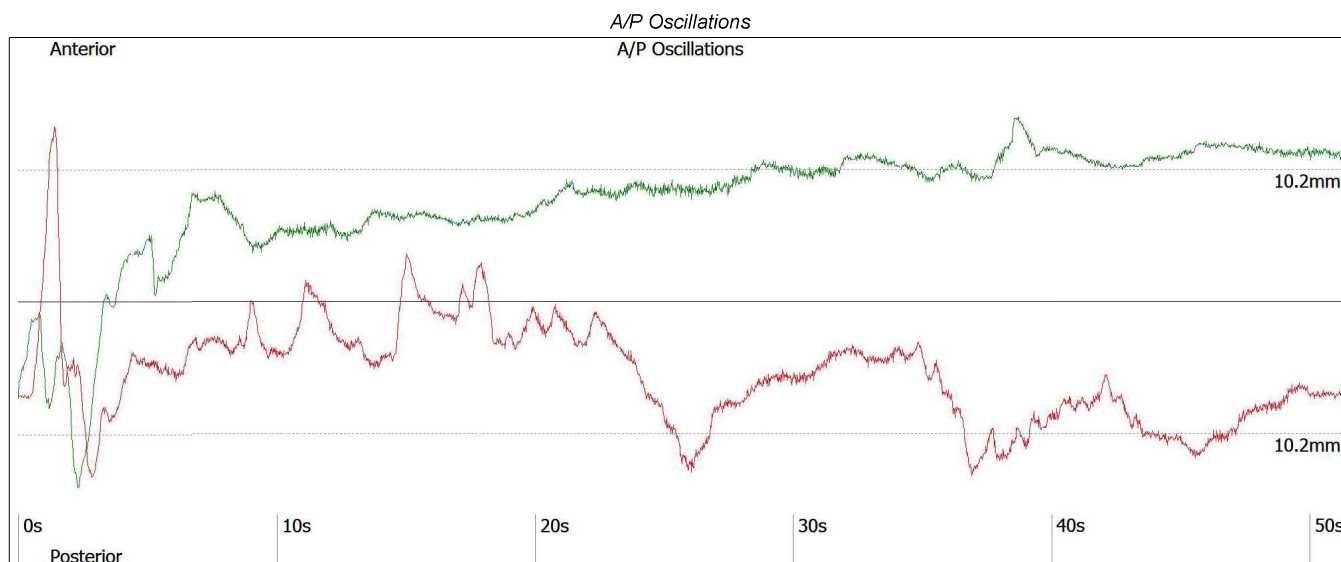
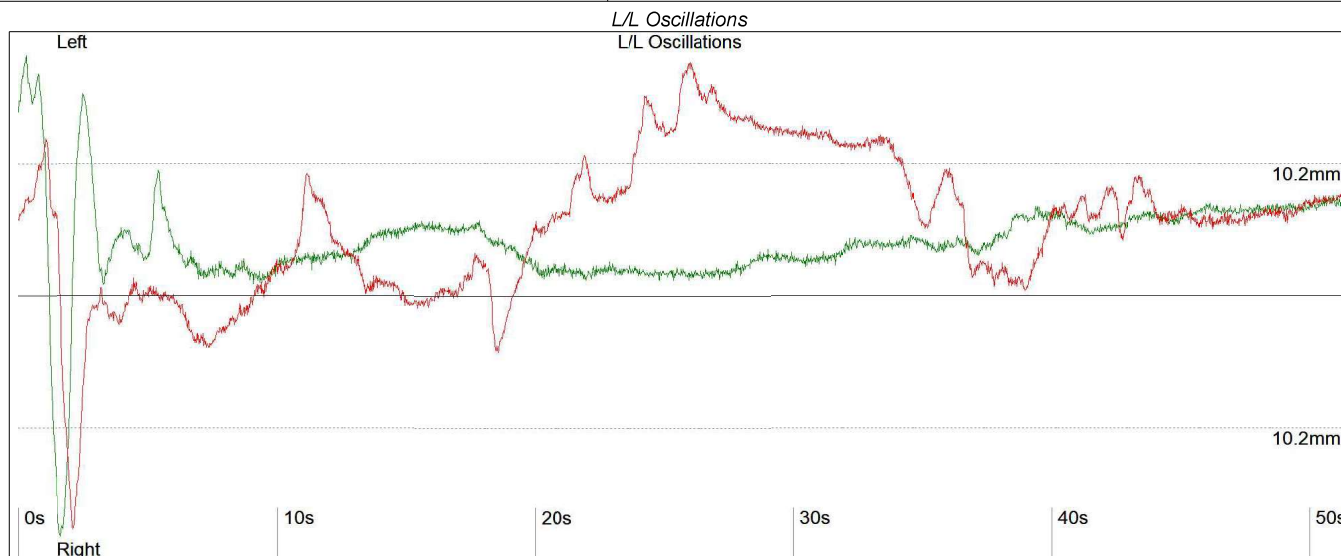
Weight

130 lb

Remote code

Shoe Size

W 8 US



Bipodalic OE - 51.2 sec.

Bipodalic CE - 51.2 sec.

Numerical values

Sway length mm	890.96	1012.56
Ellipse surface mm ²	162.58	449.12
L/S ratio	5.48	2.25
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RMS X mm	0.415	0.391
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RMS Y mm	0.3	0.371
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Standard deviation Y mm	4.064	3.948
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Ellipse center reference:

Avg X mm	-0.05	0.01
----------	-------	------

Avg Y mm	0.01	-0.02
----------	------	-------

Polygon plate reference:

Avg X mm	4.15	5.01
----------	------	------

Avg Y mm	-9.69	-15.52
----------	-------	--------

Romberg Index

Ellipse surface mm ²	276
---------------------------------	------------

Average speed	115
---------------	------------

Sway length	114
-------------	------------

Filters:

Raw Data

Bipodalic OE - 51.2 sec. - Bipodalic CE - 51.2 sec.

Analysis of 16/08/2010 10.16



Sensor Medica USA LLC
966 E. Lincoln Rd. Ste C
83401 Idaho Falls
Phone 208-561-2286

Sample Patient

Birth date

12/19/1981

Patient code

00000001

Height

68 inc

Remote center

Weight

130 lb

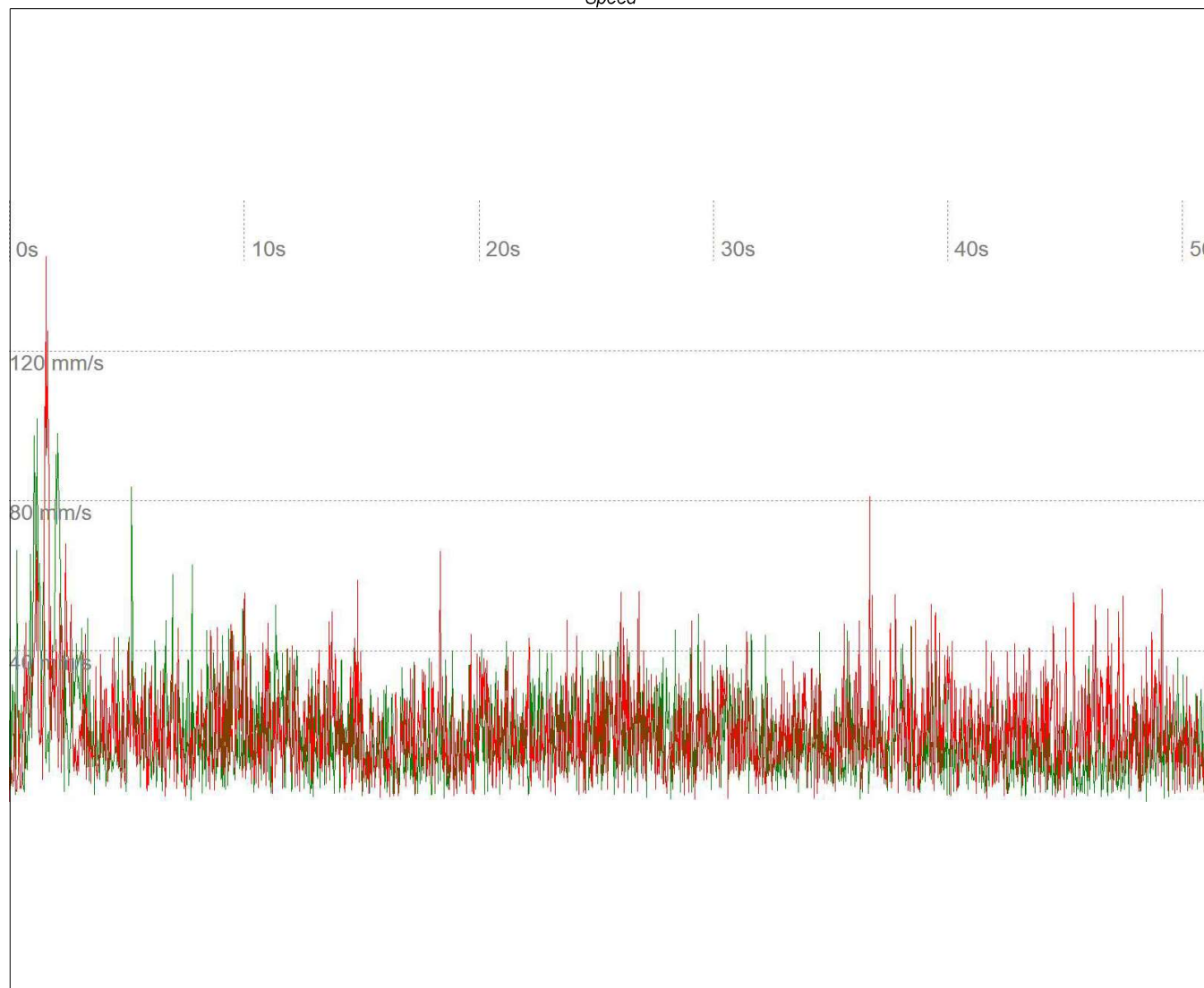
Remote code

Shoe Size

W 8 US

Speed

Numerical values



Sway length mm	890.96	1012.56
Ellipse surface mm ²	162.58	449.12
L/S ratio	5.48	2.25
Ellipse inclination °	124	36
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Avg X mm	-0.05	0.01
----------	-------	------

Avg Y mm	0.01	-0.02
----------	------	-------

Polygon plate reference:

Avg X mm	4.15	5.01
----------	------	------

Avg Y mm	-9.69	-15.52
----------	-------	--------

Romberg Index

Ellipse surface mm ²	276
---------------------------------	------------

Average speed	115
---------------	------------

Sway length	114
-------------	------------

Filters:

Raw Data

Bipodalic OE - 51.2 sec. - Bipodalic CE - 51.2 sec.

Analysis of 16/08/2010 10.16



Sensor Medica USA LLC
966 E. Lincoln Rd. Ste C
83401 Idaho Falls
Phone 208-561-2286

Sample Patient

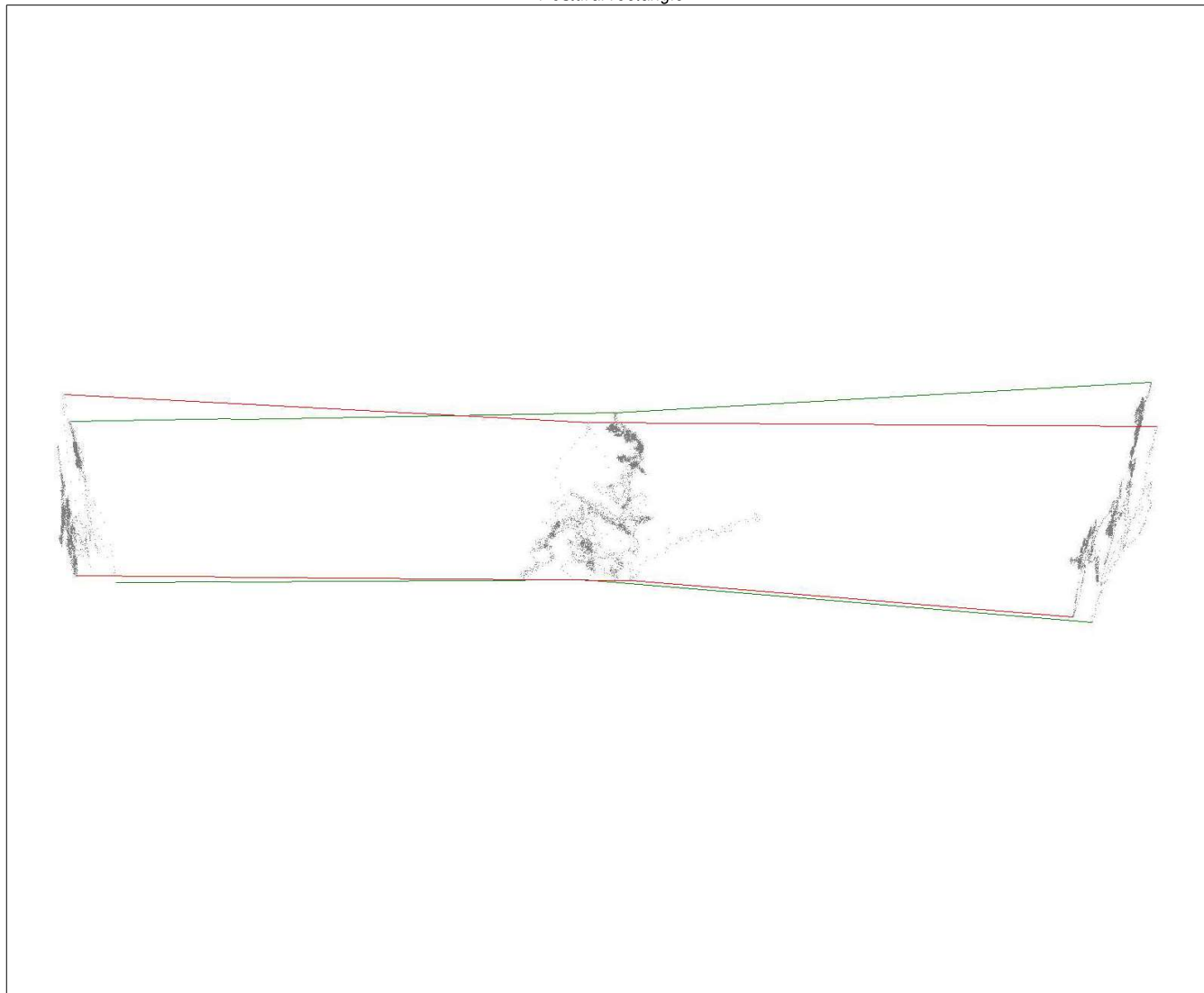
Birth date
Height
Weight
Shoe Size

12/19/1981
68 inc
130 lb
W 8 US

Patient code
Remote center
Remote code

00000001

Postural rectangle



Numerical values

Sway length mm	890.96	1012.56
Ellipse surface mm ²	162.58	449.12
L/S ratio	5.48	2.25
Ellipse inclination °	124	36
Ellipse eccentricity °	0.49	0.33

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Polygon plate reference:

Avg X mm	4.15	5.01
Avg Y mm	-9.69	-15.52

Romberg Index

Ellipse surface mm ²	276
Average speed	115
Sway length	114

Filters:

Raw Data

Bipodalic OE - 51.2 sec.

Bipodalic CE - 51.2 sec.

Bipodalic OE - 51.2 sec. - Bipodalic CE - 51.2 sec.

Analysis of 16/08/2010 10:16

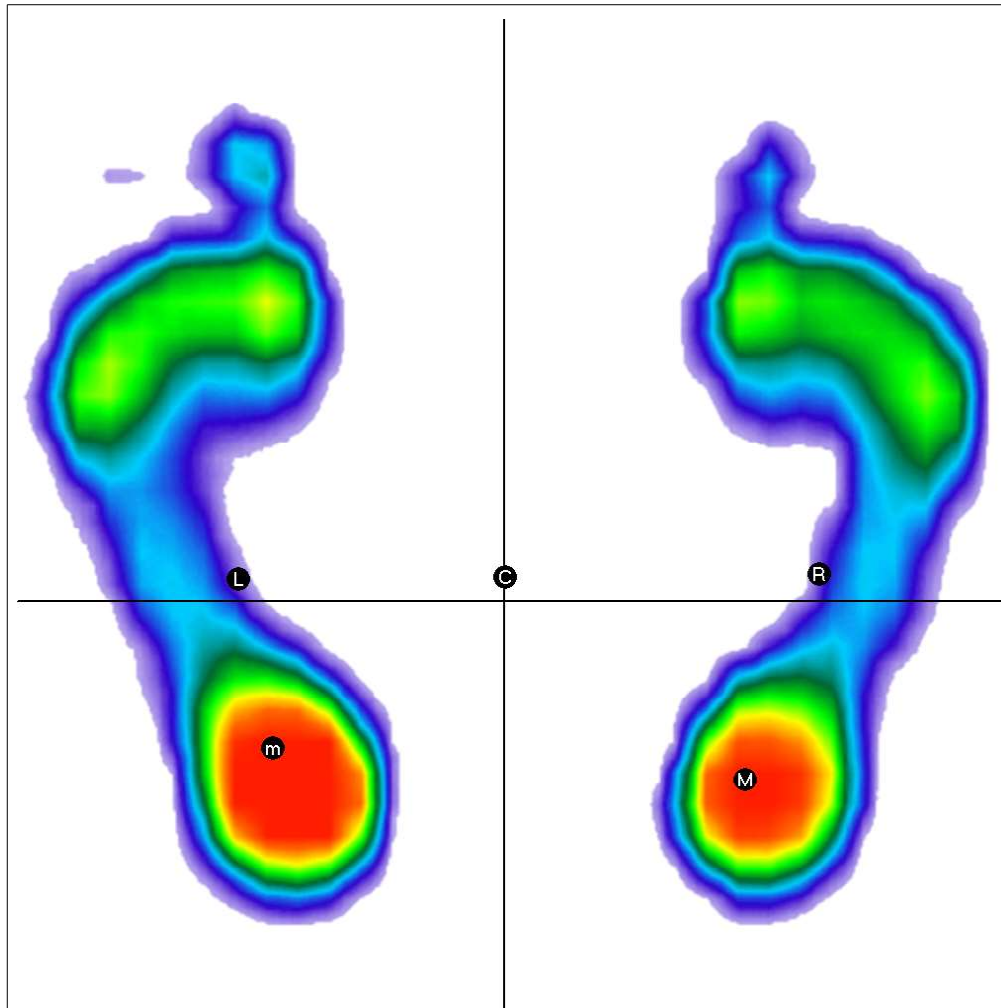
Sensor Medica USA
966 E Lincoln Road, Ste. C
83401 Idaho Falls
Phone 208-561-2286

Sample Patient

Birth date 12/19/1981
Height 170 cm
Weight 59 Kg
Shoe Size 39

Patient code 00000001
Remote center
Remote code

STATIC ANALYSIS



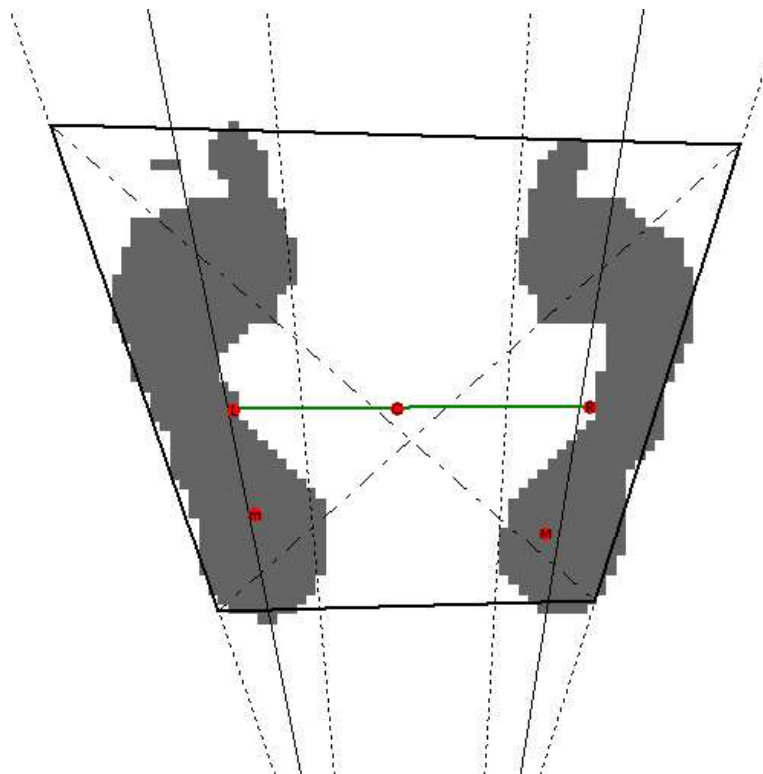
Numerical values

		Left	Right
Forefoot	Surface cm ²	87	75
	Load %	26	23
	Weight ratio R/F %	47	50
Rearfoot	Surface cm ²	59	51
	Load %	28	23
	Weight ratio R/F %	53	50
Total	Surface cm ²	146	126
	Load %	54	46
	Load Kg	32	27
	P. Max (gr/cm ²)	521	521
	P.Avg gr/cm ²	218	215
Value Geometric	Podalic angle °	14	15
	Podalic axis °	11	8
	Length mm	25.5	24
	Width mm	9.2	9.7
	Distance L-C mm	85	
	Distance R-C mm	100	
	Misalignment C	2.21 cm - LF A	
	Misalignment L-R °	0	



Analysis of 20/03/2012 19:17

Static analysis -Support polygon

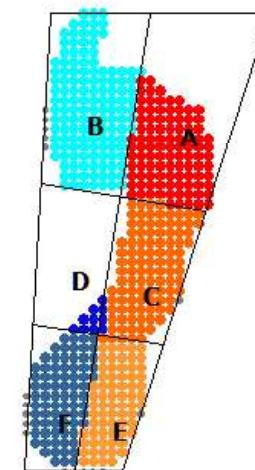
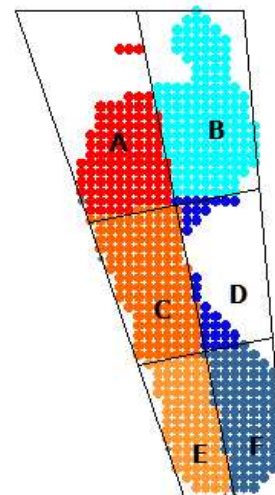


Forefoot	
A	B
Surf. cm²	
26	36
Load %	
9	11

Middlefoot	
C	R
Surf. cm²	
32	8
Load %	
7	1

Rearfoot	
E	F
Surf. cm²	
20	22
Load %	
10	14

Static analysis - Area division



Forefoot	
B	A
Surf. cm²	
34	25
Load %	
10	9

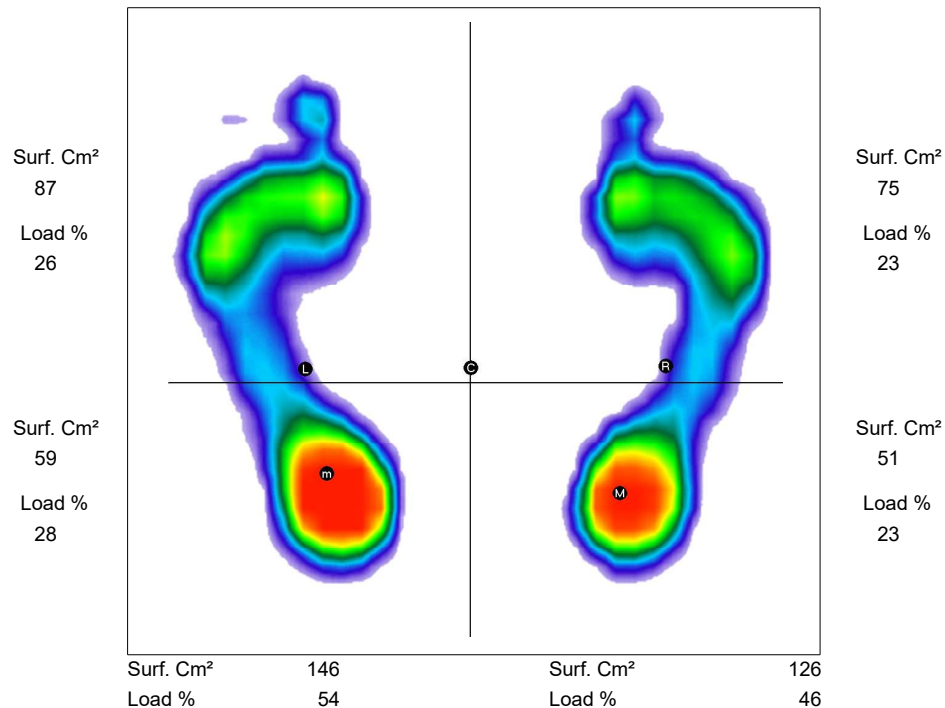
Middlefoot	
R	C
Surf. cm²	
2	25
Load %	
1	6

Rearfoot	
F	E
Surf. cm²	
19	17
Load %	
11	8

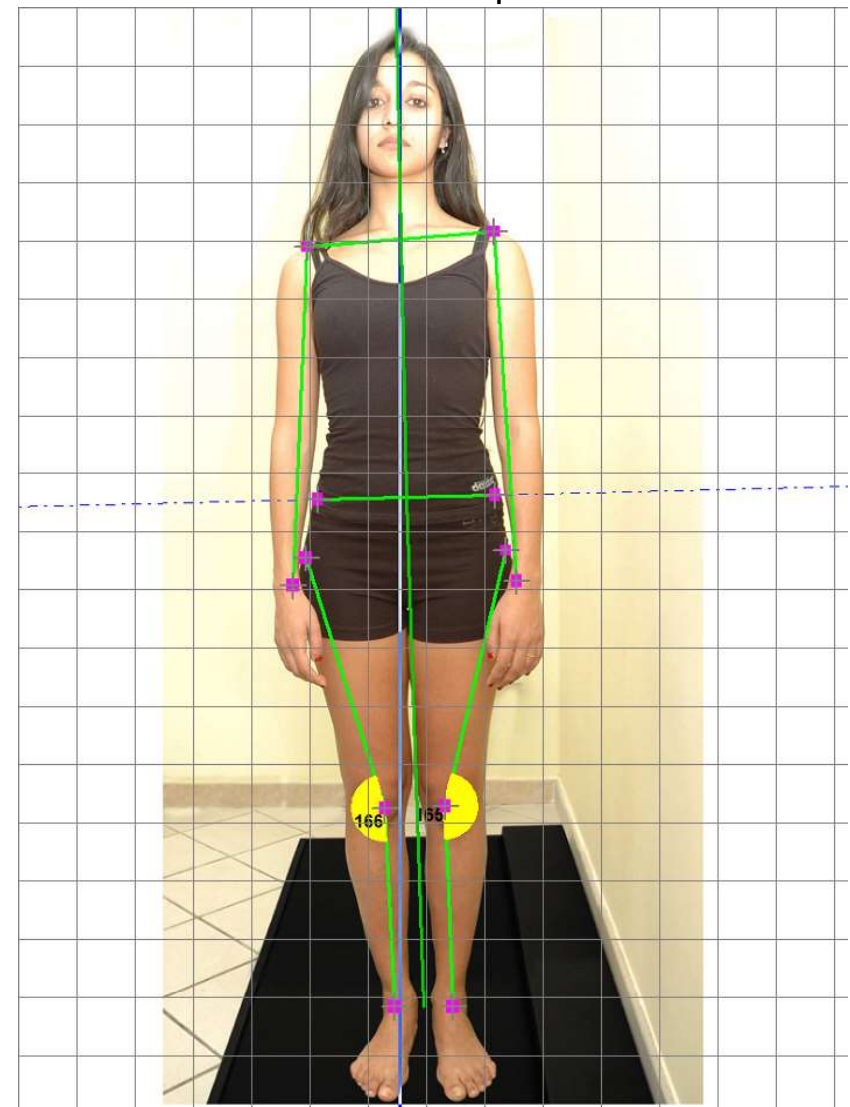
	Left foot	Right foot
Podalic angle °	14°	15°
Podalic axis °	11°	8°
Misalignment C	2.21 cm - LF A	
Misalignment L-R	0°	

	Left foot	Right foot
Total surface cm²	146	126
Load %	54	46

STATIC ANALYSIS



2D Video Acquisition



Measurements

Results	
Shoulder tilt	5°LF^
Pelvic tilt	1°
Angle varus/valgus knee rg	166°
Angle varus/valgus knee lf	165°
Trunk Inclination	91°
Leg tilt	272°



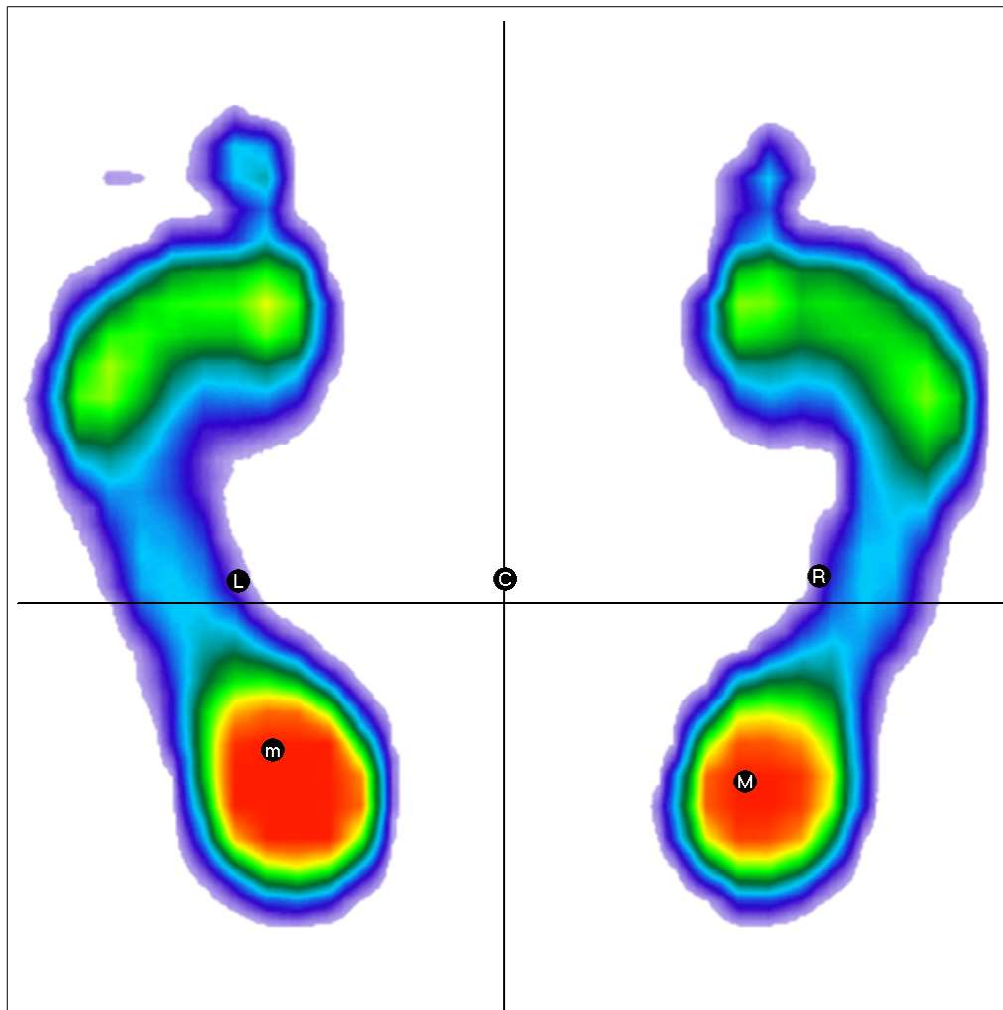
Sensor Medica USA
966 E Lincoln Road, Ste. C
83401 Idaho Falls
Phone 208-561-2286

Sample Patient

Birth date 12/19/1981
Height 170 cm
Weight 59 Kg
Shoe Size 39

Patient code 00000001
Remote center
Remote code

STATIC ANALYSIS



Pressure report ANALISI STATICA

Dall'esame statico effettuato sul paziente Paziente Modella si evidenzia quanto segue:

Il baricentro corporeo C, nel poligono di appoggio, risulta spostato a sinistra ed anteposto.

I centri di pressione dei singoli arti risultano ben allineati tra di loro ed in linea con il baricentro corporeo.

Il punto di massima pressione M è posizionato, secondo la norma, nella parte retropodolica di destra.

La distribuzione del peso corporeo sui due arti rileva un sensibile iper carico a sinistra (53% del peso globale). Il valore del carico tra avampiede e retropiede a sinistra è nei valori fisiologici, mentre a destra indica un lieve iper carico avampodalico (avampiede 49%, retropiede 51%).

Le superfici dei due piedi sono difformi fra di loro con appoggio maggiore a sinistra (146cm² a sinistra, 126cm² a destra). Tra i due avampiedi è rilevabile una eccessiva differenza di superficie, maggiore a sinistra; tra i due retropiedi è rilevabile una eccessiva differenza di superficie, maggiore a sinistra.

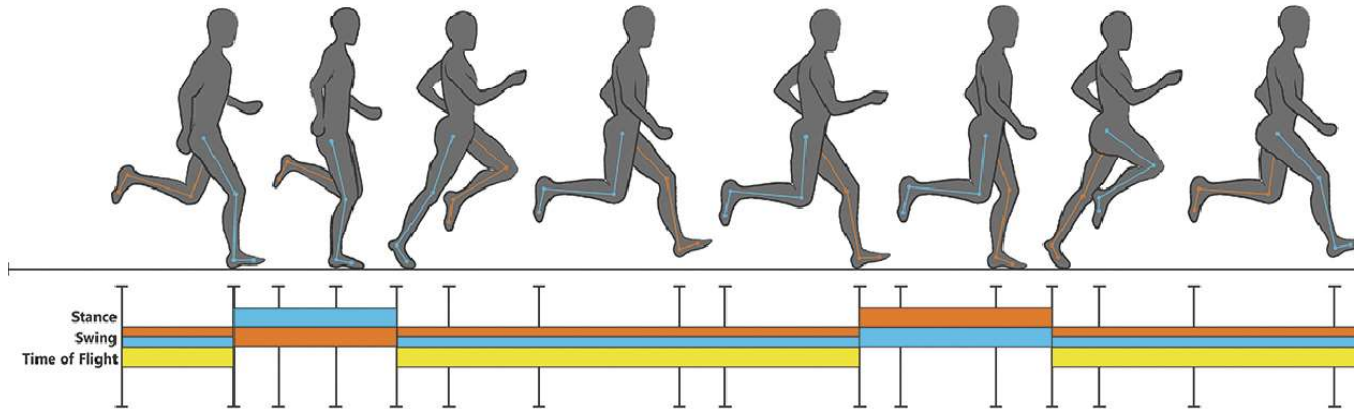
Numerical values

		Left	Right
Forefoot	Surface cm ²	87	75
	Load %	26	23
	Weight ratio R/F %	47	50
Rearfoot	Surface cm ²	59	51
	Load %	28	23
	Weight ratio R/F %	53	50
Total	Surface cm ²	146	126
	Load %	54	46
	P. Max (gr/cm ²)	521	521
	P.Avg gr/cm ²	218	215



Analysis of 20/03/2012 19.17

Treadmill



Analyzed steps 31
 Average speed Km/h 10.41
 Steps per minute 171

Stance (ms)
 190 198

Time of Flight ms
 169 176

Swing (ms)
 535 543

Rockers ICP (ms)
 2 - - 1

Rockers FFCP (ms)
 139 104

Rockers FFP (ms)
 49 91

Rockers FFOP (ms)
 1 - - 2

Step length cm
 109.07 103.29

Simmetry Index

96%

96%

98%

65%

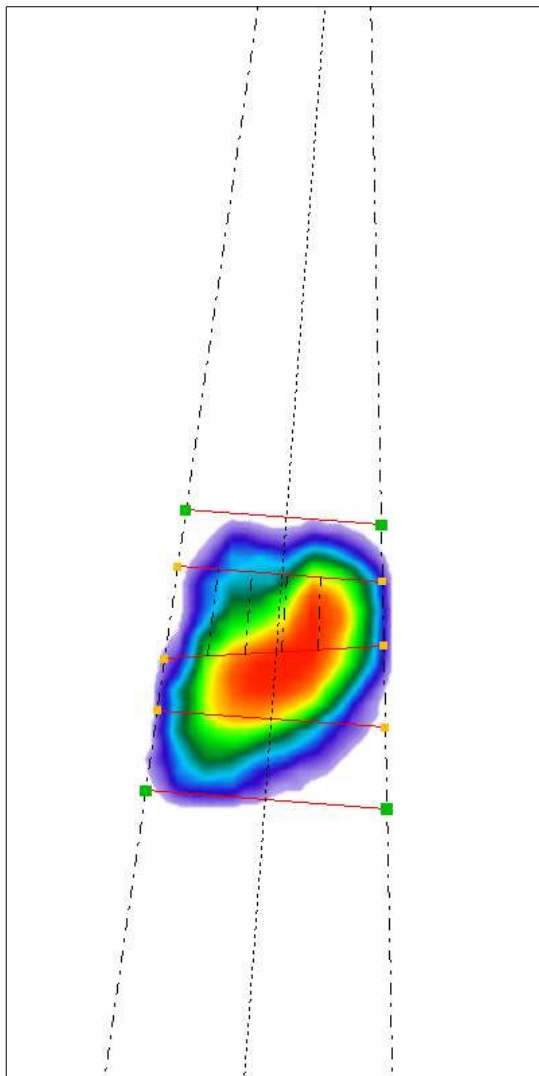
75%

54%

40%

95%

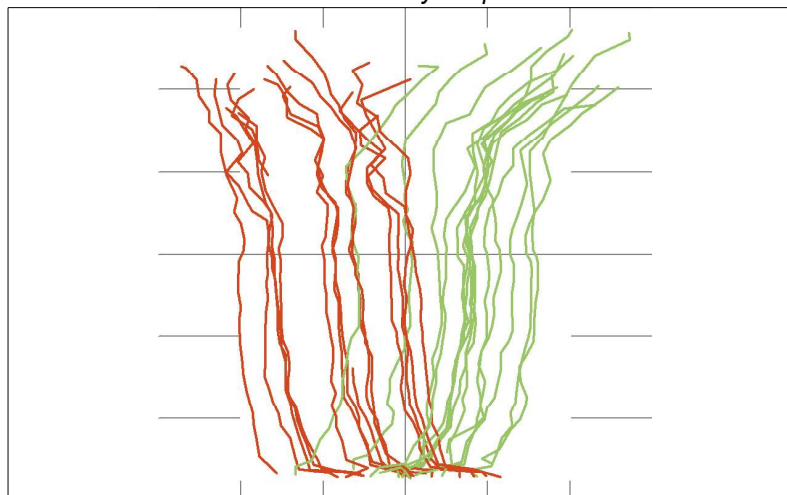
Treadmill - Footprint



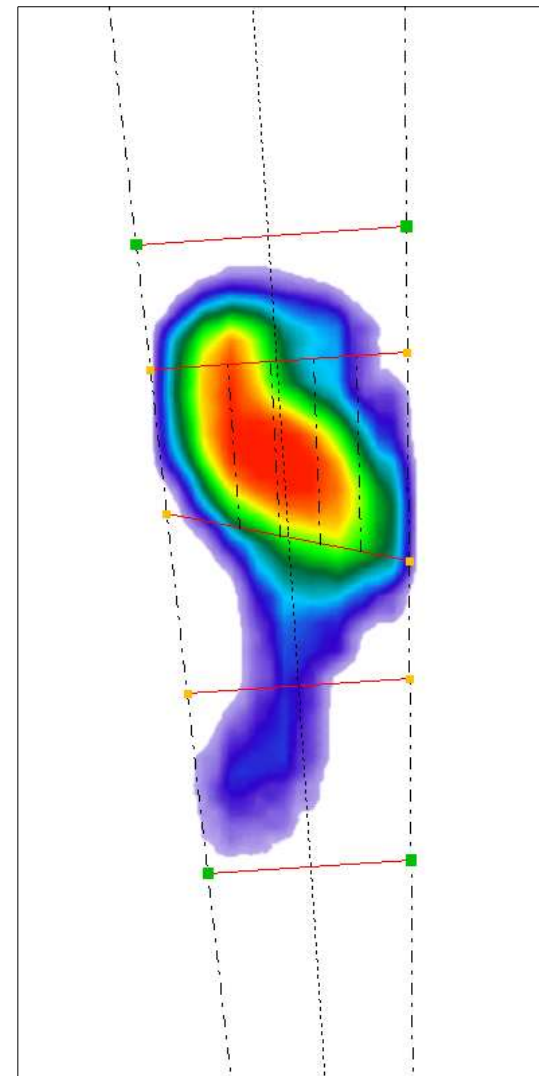
Average Values

109.07	Length Half/Step cm	103.29
190	Stance time (ms)	198
169	Dual Load/Flight Time ms	176
535	Rocking Time (ms)	543
2	Rockers ICP (ms)	1
139	Rockers FFCP (ms)	104
49	Rockers FFP (ms)	91
106	Surface cm ²	139
1811	Max P. gr / cm ²	1429
1161	Avarege P. gr / cm ²	974
91	Fore-foot Load %	95
9	Rear-foot Load %	5
47	Medial Load %	55
53	Lateral Load %	45
2.36	Podalic Axis °	2.47

Butterfly Graph

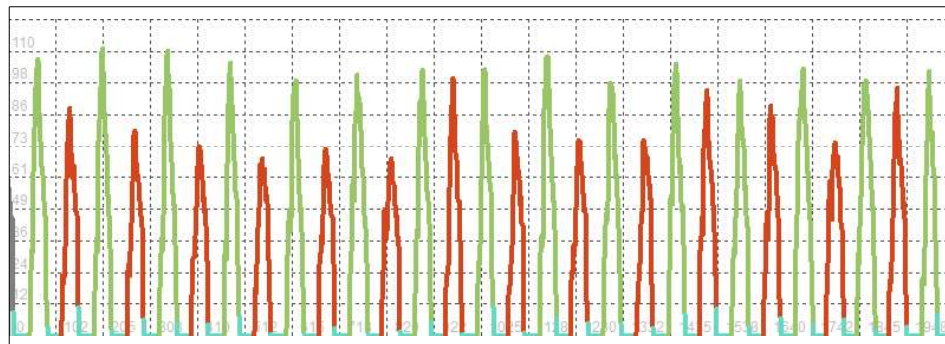


Treadmill - Footprint

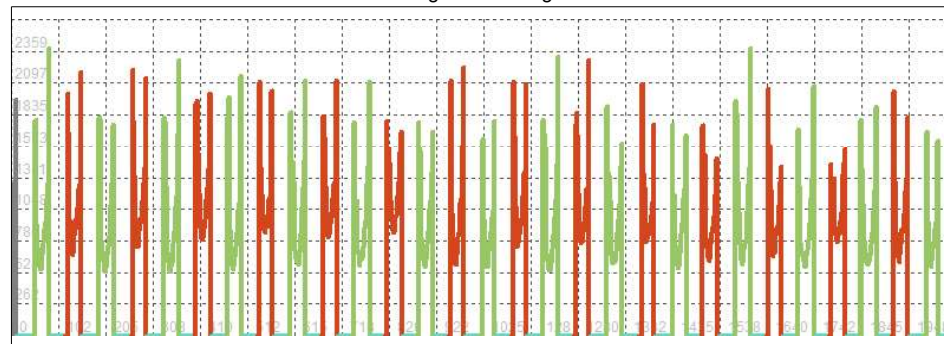


Treadmill - Curve e grafici

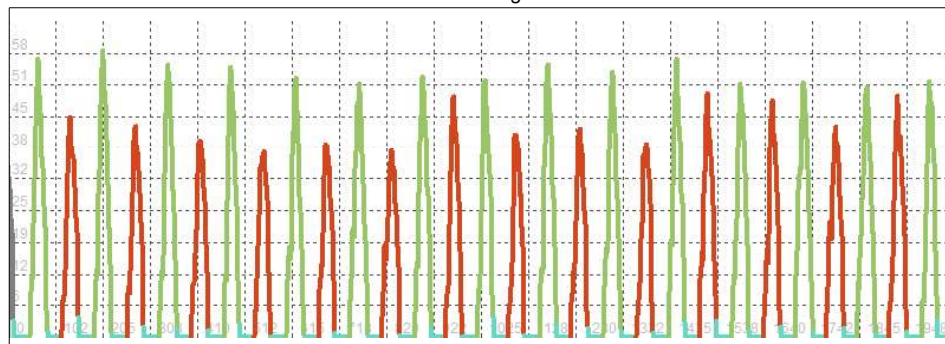
Surface cm²



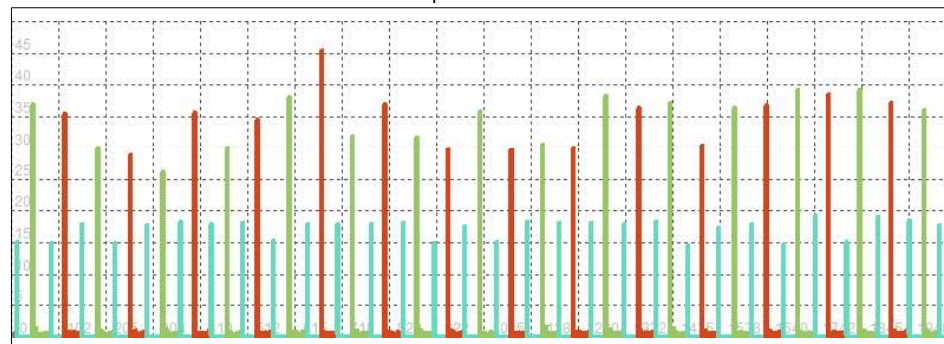
Average Pressure gr/cm²



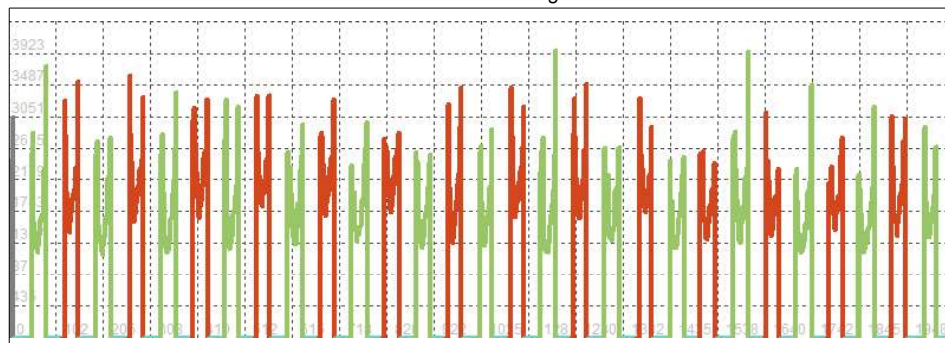
Load Kg



Speed mm/sec



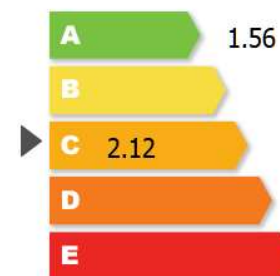
Maximum Pressure gr/cm²



Riepilogo



Efficienza



Sensor Medica - freeStep software
*** EVALUATION COPY ***

<http://www.sensormedica.com>

Sample Patient

Birth date

12/19/1981

Patient code

00000001

Height

170 cm

Remote center

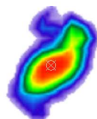
Weight

59 Kg

Remote code

Shoe Size

39



Phase value

description	LF	RF
Surface cm ²		
P. Max gr/cm ²		
P. Avg. gr/cm ²		
Speed mm/s		
Weight Bearing Time (ms)		
Load %		

Global values

description	
Number of Steps Acquired	10.90
Steps per minute	31
Average stride length cm	10.41
Average speed m/min	171
Left foot contact	109.07
Total Contact	103.29
Test Duration (s)	190

Measurements

description	
Double line	173°



Analysis of 25/07/2010 10.06