

SWAY ANALYSIS

Patient: **Mario Rossi**

Exam Date: **10/07/2019**

Operator:

PERSONAL DATA

Name: **Mario** Birth Date: **01/01/1990** (33 years)
Surname: **Rossi** Birth Place: **Rome**

PHYSICAL DATA

Height: **175 (cm)** Gender: **Male**
Weight: **70.0 (kg)** BMI: **22.9**

INFO

Job: _____
Sport: _____
Hobby: _____

FEATURES

Dominant side: **Right** Injured side: **No one**

STORY

Referring doctor: _____
Diagnosis: _____

Medical question: _____

SINGLE SENSORS RESULTS

SESSION **OPENED EYES** (10/07/2019 18:34:31)**SENSOR** **HEAD****TEST PARAMETERS****VALUE****DISPLACEMENT**

Path length (mm):	126.57
Mean distance (mm):	2.32
Maximum distance (mm):	5.00
RMS (mm):	2.63
Range (mm):	4.92
Ellipse area(mm ²):	23.20
Eccentricity:	0.87
Axis slope (°):	-12.80
Mean X (mm):	-1.78
Mean Y (mm):	-4.48

SPEED

Mean speed (mm/s):	6.35
Mean speed anterior-posterior (mm/s):	-0.31
Mean speed medial-lateral(mm/s):	-0.03
Speed ratio ML / AP (%):	9.00

ACCELERATION

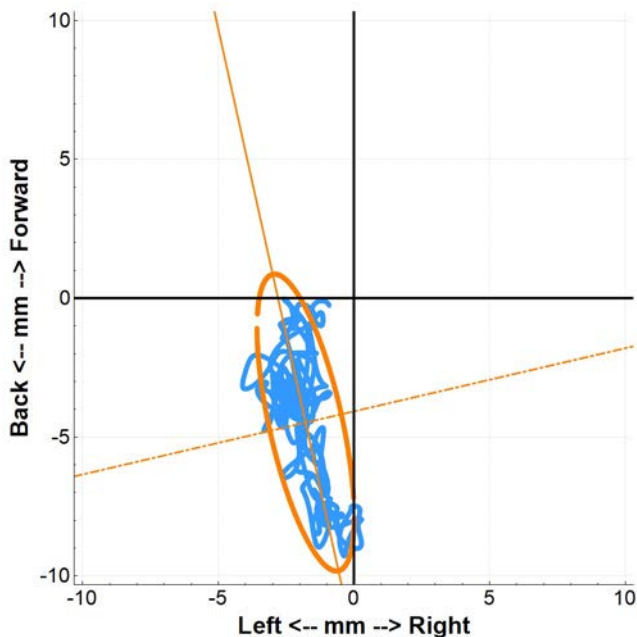
Maximum acceleration (g):	1.02
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SESSION OPENED EYES (10/07/2019 18:34:31)

SENSOR HEAD

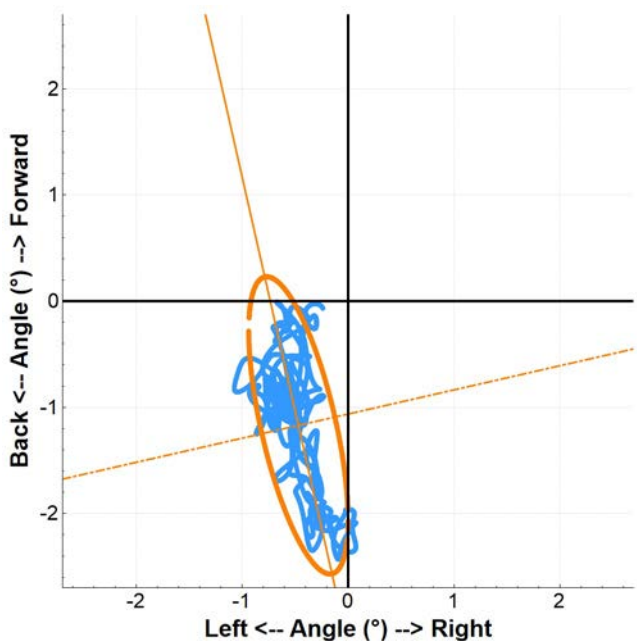
STATOKINESIGRAM

DISPLACEMENT



Path length (mm):	126.57
Mean distance (mm):	2.32
Maximum distance (mm):	5.00
RMS (mm):	2.63
Range (mm):	4.92
Ellipse area (mm ²):	23.20
Eccentricity:	0.87
Axis slope (°):	-12.80
Mean X (mm):	-1.78
Mean Y (mm):	-4.48

ANGLES



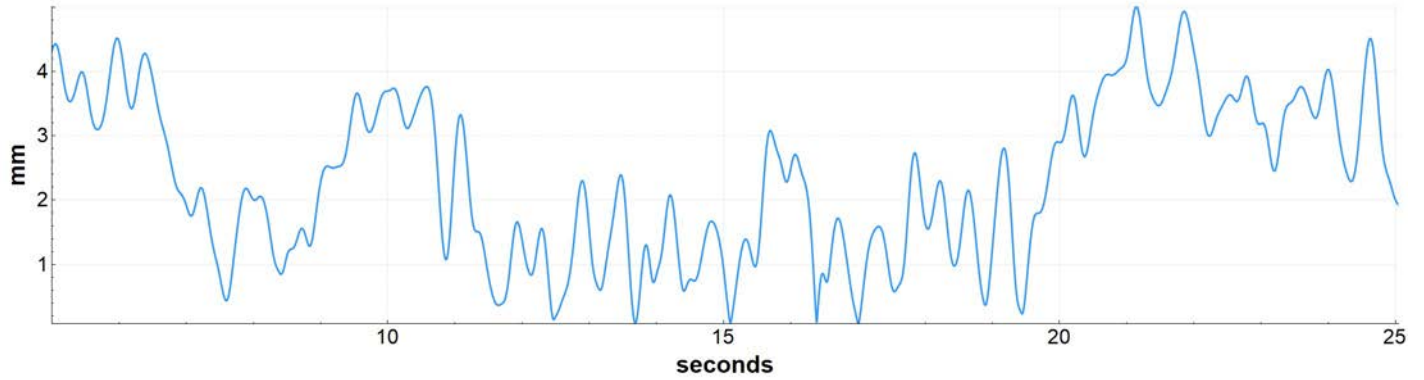
Angles sum frontal plane(°):	14.52
Angles sum sagittal plane(°):	26.88
Min angle frontal plane(°):	-0.94
Max angle frontal plane(°):	0.00
Min angle sagittal plane(°):	-2.57
Max angle sagittal plane(°):	0.23
Range frontal plane(°):	0.94
Range sagittal plane(°):	2.80
Ellipse area(° ²):	1.59
Eccentricity:	0.87
Mean X(°):	-0.47
Mean Y(°):	-1.17

SESSION OPENED EYES (10/07/2019 18:34:31)

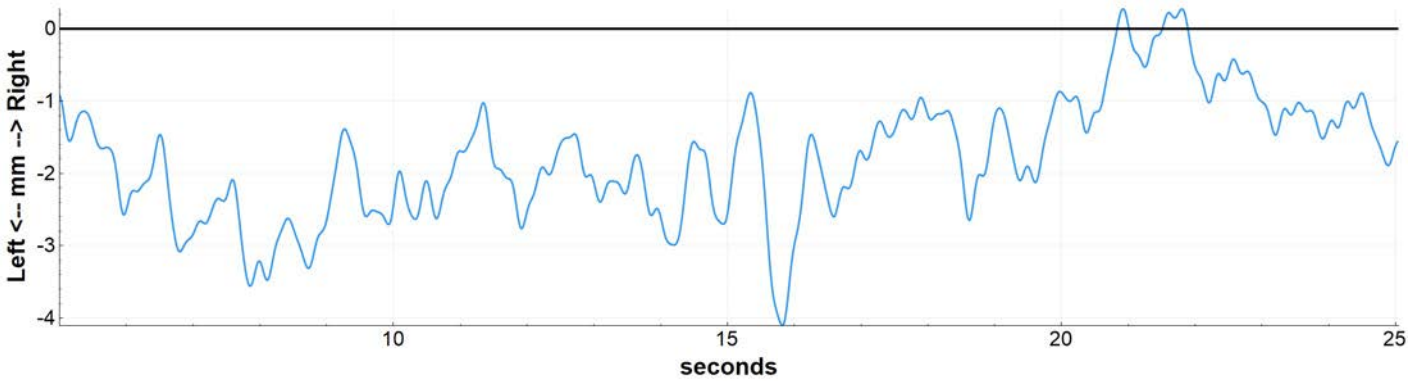
SENSOR HEAD

STABILOGRAM

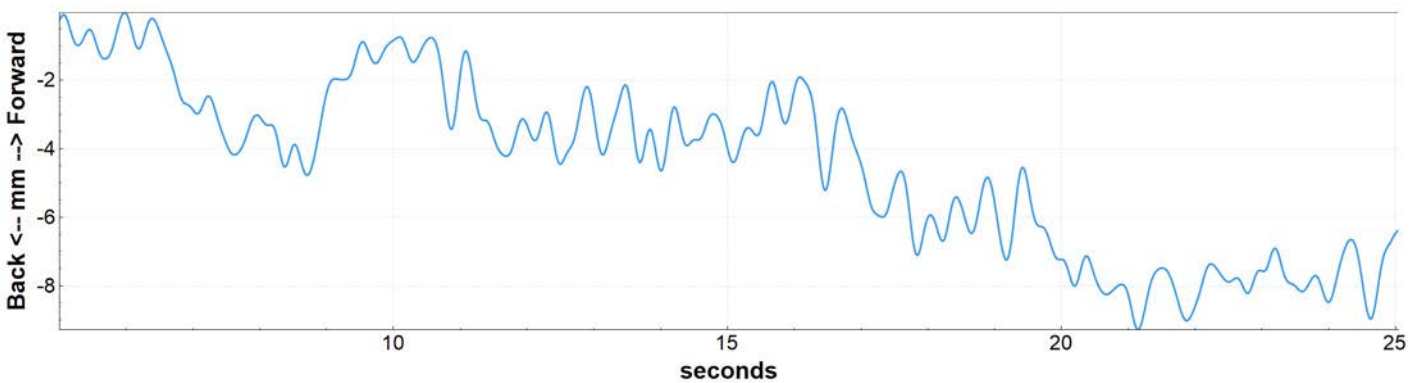
STABILOGRAM COG



STABILOGRAM MEDIAL-LATERAL



STABILOGRAM ANTERIOR-POSTERIOR

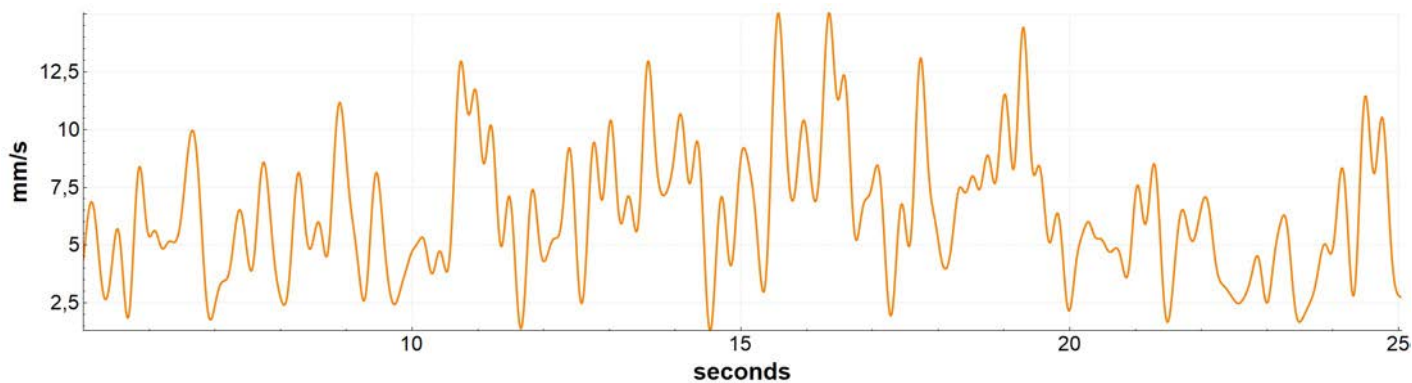


SESSION OPENED EYES (10/07/2019 18:34:31)

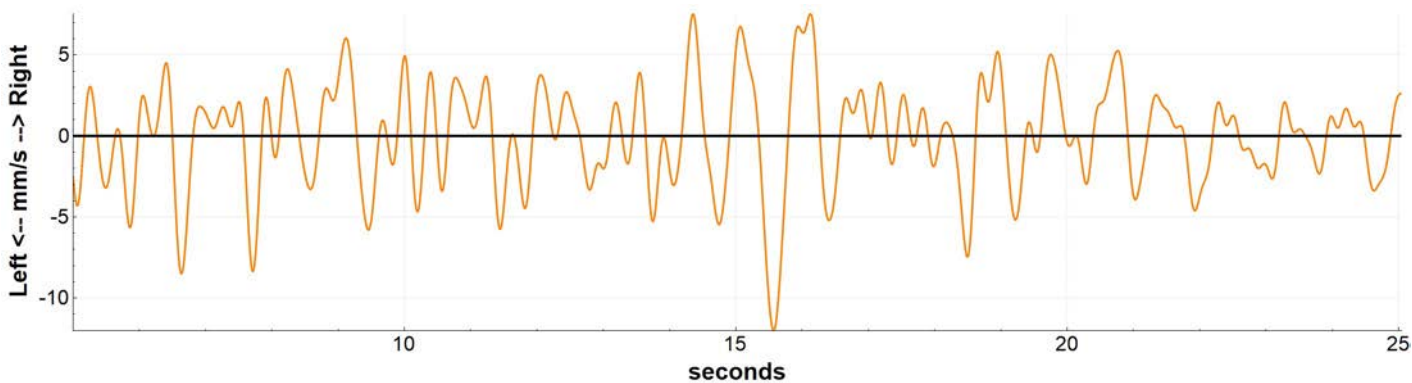
SENSOR HEAD

SPEED

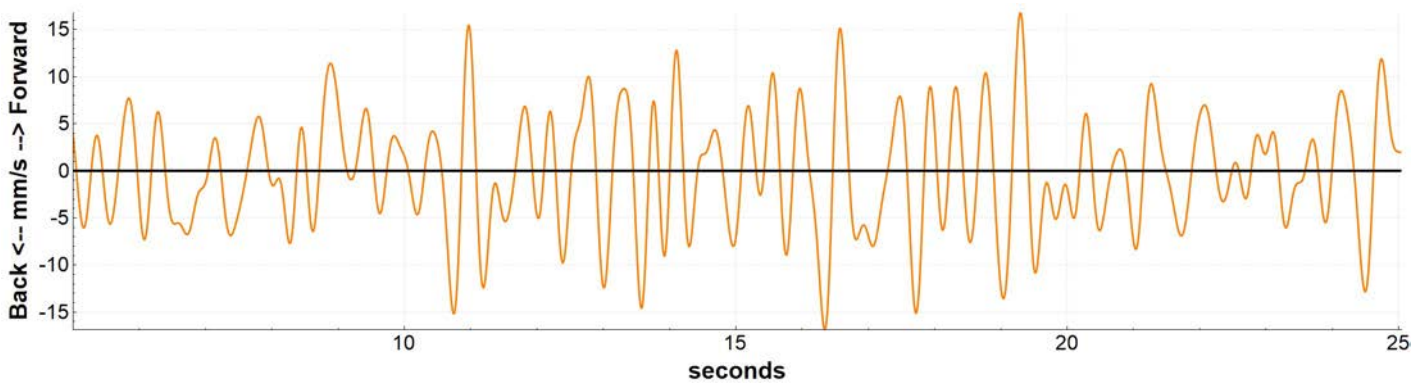
SPEED Mean speed = 6.35 mm/s



SPEED MEDIAL-LATERAL Mean speed = -0.31 mm/s



SPEED ANTERIOR-POSTERIOR Mean speed = -0.03 mm/s



SESSION OPENED EYES (10/07/2019 18:34:31)

SENSOR PELVIS

TEST PARAMETERS**VALUE****DISPLACEMENT**

Path length (mm):	296.82
Mean distance (mm):	3.11
Maximum distance (mm):	14.08
RMS (mm):	4.00
Range (mm):	14.07
Ellipse area(mm ²):	54.42
Eccentricity:	0.87
Axis slope (°):	-0.90
Mean X (mm):	0.27
Mean Y (mm):	1.64

SPEED

Mean speed (mm/s):	14.90
Mean speed anterior-posterior (mm/s):	0.23
Mean speed medial-lateral(mm/s):	-0.23
Speed ratio ML / AP (%):	-100.20

ACCELERATION

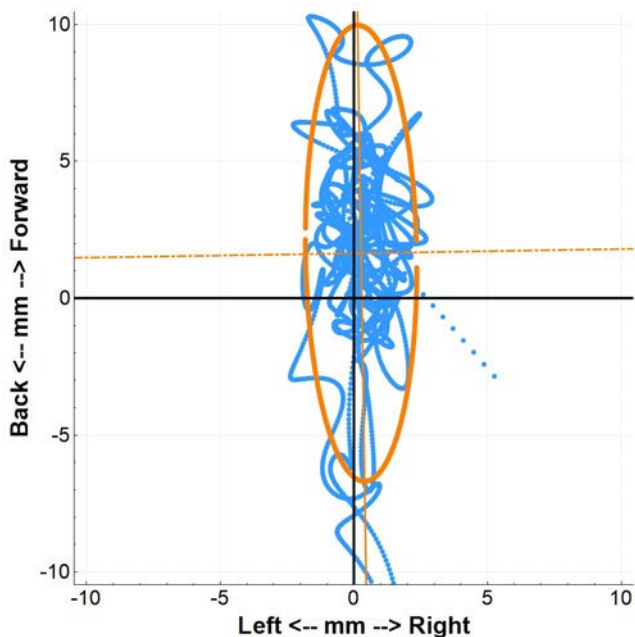
Maximum acceleration (g):	1.00
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SESSION OPENED EYES (10/07/2019 18:34:31)

SENSOR PELVIS

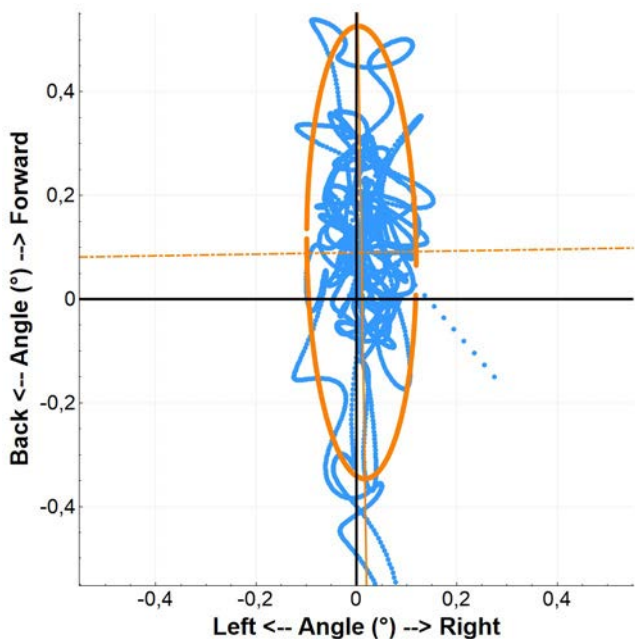
STATOKINESIGRAM

DISPLACEMENT



Path length (mm):	296.82
Mean distance (mm):	3.11
Maximum distance (mm):	14.08
RMS (mm):	4.00
Range (mm):	14.07
Ellipse area (mm ²):	54.42
Eccentricity:	0.87
Axis slope (°):	-0.90
Mean X (mm):	0.27
Mean Y (mm):	1.64

ANGLES



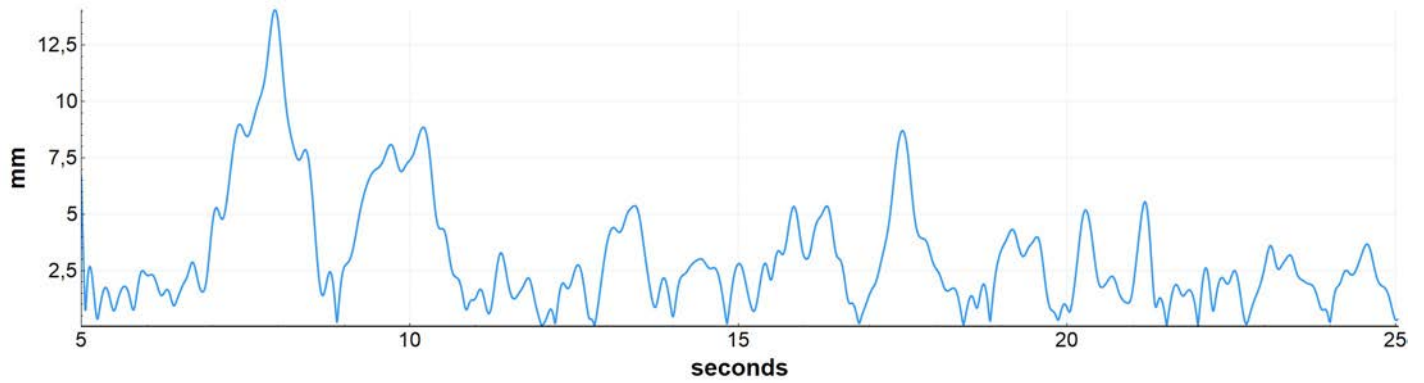
Angles sum frontal plane(°):	8.55
Angles sum sagittal plane(°):	11.21
Min angle frontal plane(°):	-0.10
Max angle frontal plane(°):	0.12
Min angle sagittal plane(°):	-0.35
Max angle sagittal plane(°):	0.52
Range frontal plane(°):	0.22
Range sagittal plane(°):	0.87
Ellipse area(° ²):	0.15
Eccentricity:	0.87
Mean X(°):	0.01
Mean Y(°):	0.09

SESSION OPENED EYES (10/07/2019 18:34:31)

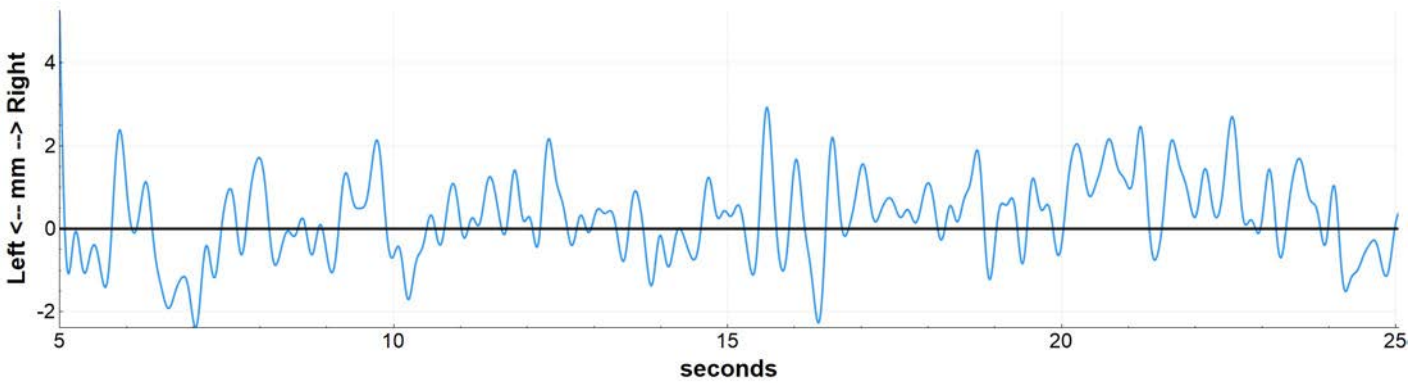
SENSOR PELVIS

STABILOGRAM

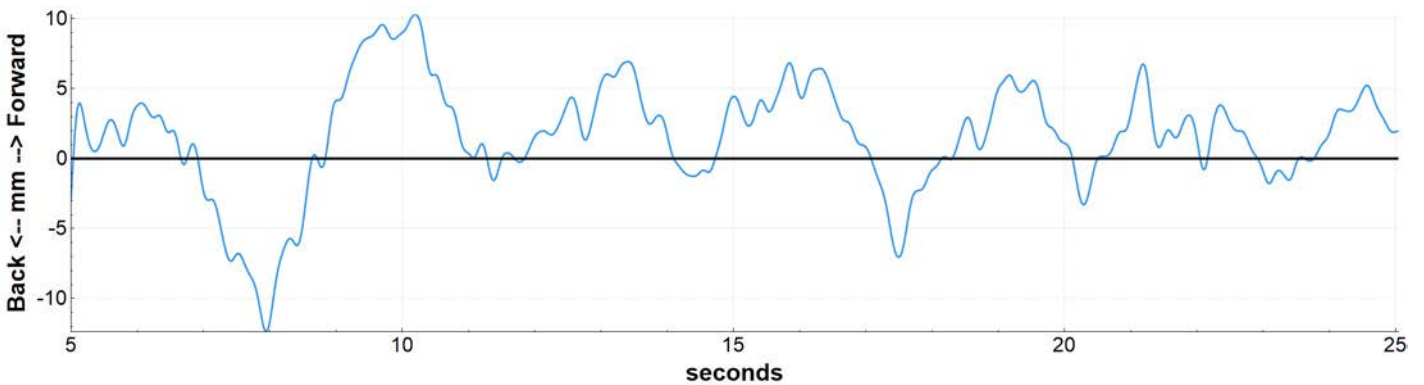
STABILOGRAM COG



STABILOGRAM MEDIAL-LATERAL



STABILOGRAM ANTERIOR-POSTERIOR



SESSION **CLOSED EYES** (10/07/2019 18:35:15)**SENSOR** **HEAD****TEST PARAMETERS****VALUE****DISPLACEMENT**

Path length (mm):	124.96
Mean distance (mm):	1.32
Maximum distance (mm):	2.95
RMS (mm):	1.48
Range (mm):	2.93
Ellipse area(mm ²):	12.80
Eccentricity:	0.70
Axis slope (°):	-9.80
Mean X (mm):	-0.42
Mean Y (mm):	0.23

SPEED

Mean speed (mm/s):	6.27
Mean speed anterior-posterior (mm/s):	0.10
Mean speed medial-lateral(mm/s):	-0.02
Speed ratio ML / AP (%):	-19.20

ACCELERATION

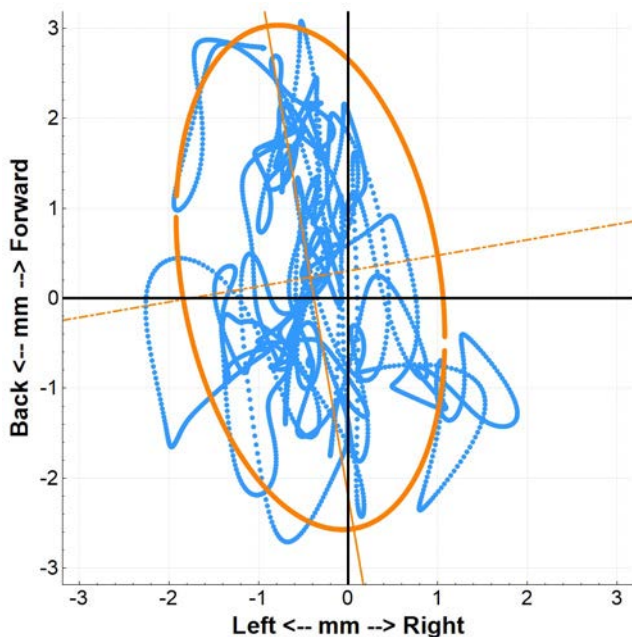
Maximum acceleration (g):	1.01
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SESSION CLOSED EYES (10/07/2019 18:35:15)

SENSOR HEAD

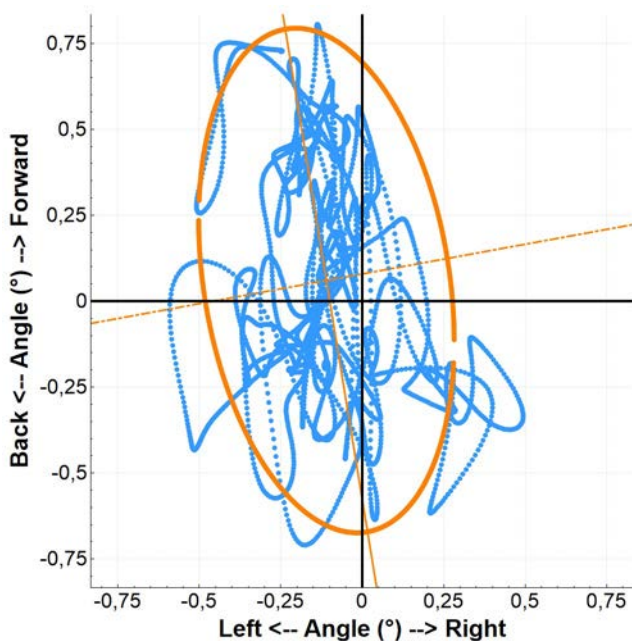
STATOKINESIGRAM

DISPLACEMENT



Path length (mm):	124.96
Mean distance (mm):	1.32
Maximum distance (mm):	2.95
RMS (mm):	1.48
Range (mm):	2.93
Ellipse area (mm ²):	12.80
Eccentricity:	0.70
Axis slope (°):	-9.80
Mean X (mm):	-0.42
Mean Y (mm):	0.23

ANGLES



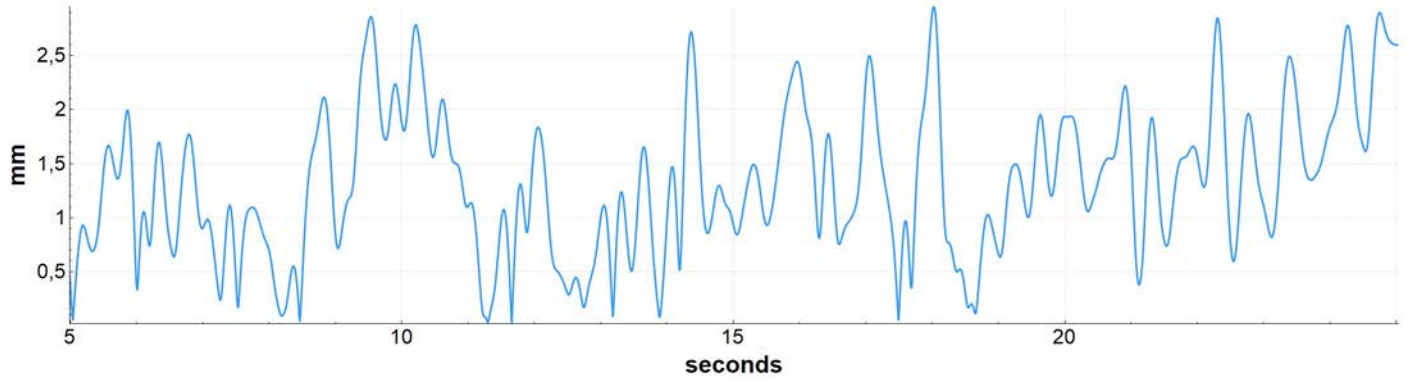
Angles sum frontal plane(°):	11.63
Angles sum sagittal plane(°):	28.29
Min angle frontal plane(°):	-0.50
Max angle frontal plane(°):	0.28
Min angle sagittal plane(°):	-0.67
Max angle sagittal plane(°):	0.79
Range frontal plane(°):	0.78
Range sagittal plane(°):	1.47
Ellipse area(° ²):	0.88
Eccentricity:	0.70
Mean X(°):	-0.11
Mean Y(°):	0.06

SESSION CLOSED EYES (10/07/2019 18:35:15)

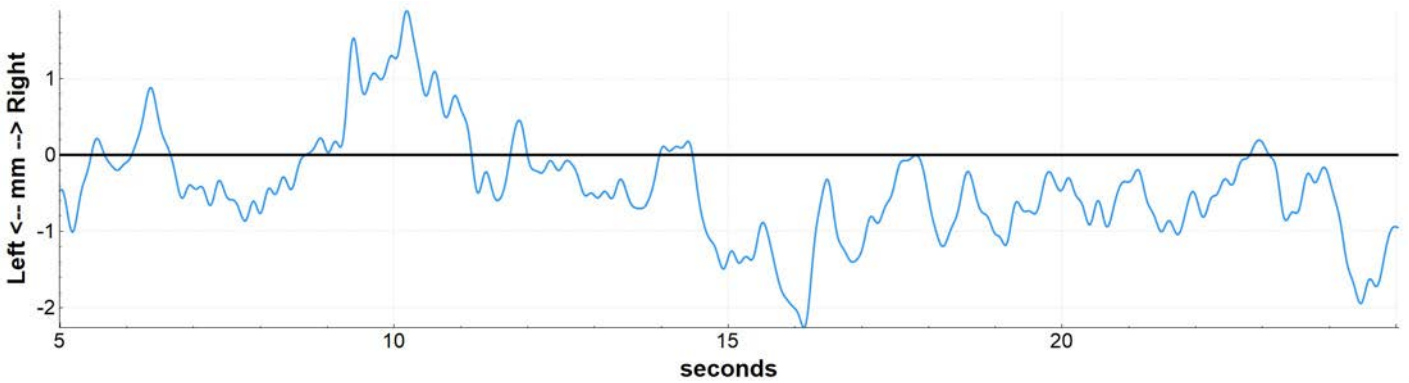
SENSOR HEAD

STABILOGRAM

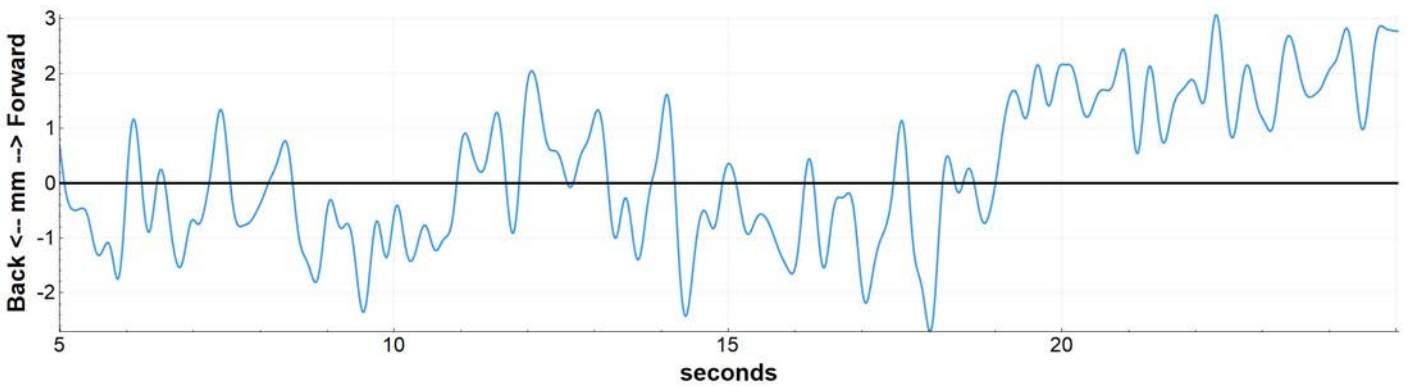
STABILOGRAM COG



STABILOGRAM MEDIAL-LATERAL



STABILOGRAM ANTERIOR-POSTERIOR

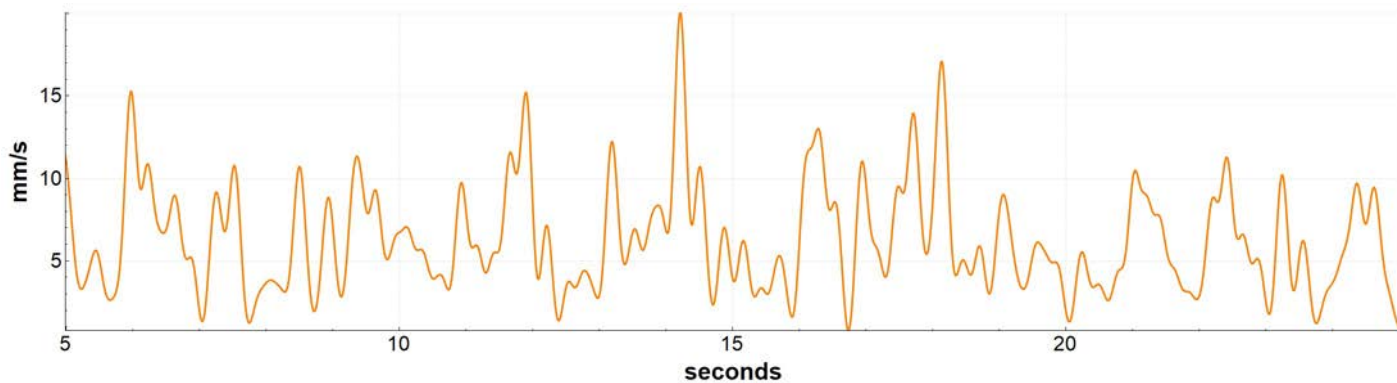


SESSION CLOSED EYES (10/07/2019 18:35:15)

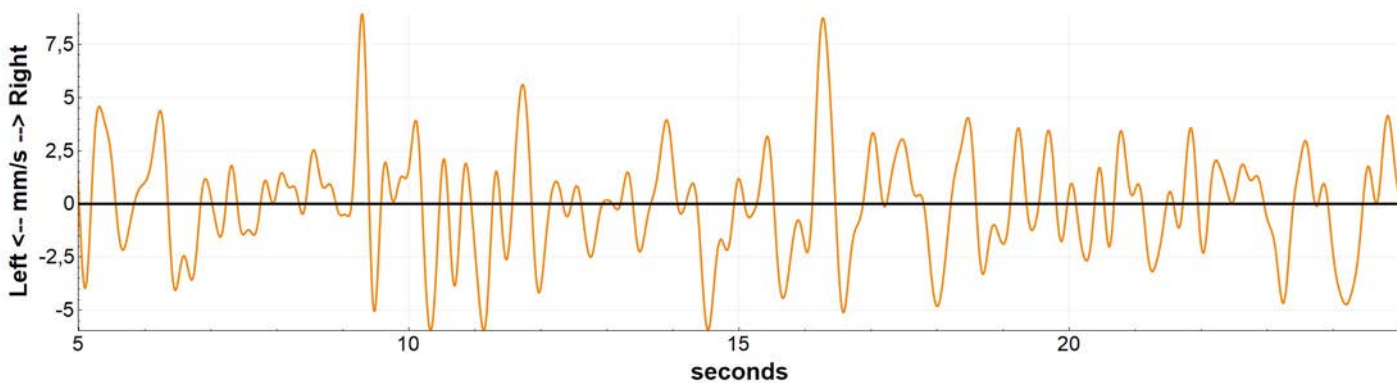
SENSOR HEAD

SPEED

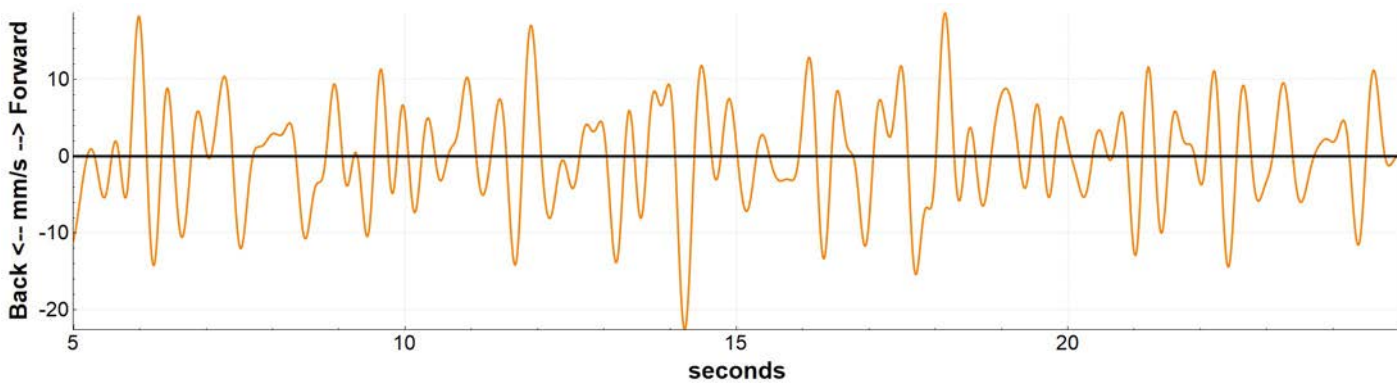
SPEED Mean speed = 6.27 mm/s



SPEED MEDIAL-LATERAL Mean speed = 0.10 mm/s



SPEED ANTERIOR-POSTERIOR Mean speed = -0.02 mm/s



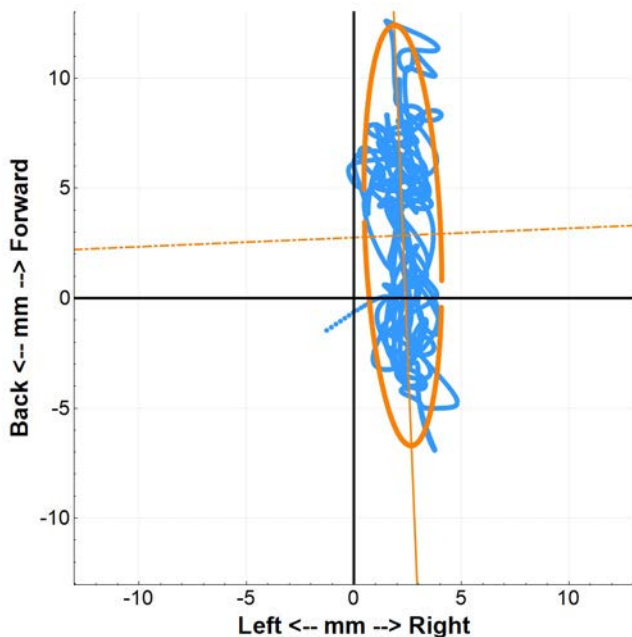
SESSION **CLOSED EYES** (10/07/2019 18:35:15)**SENSOR** **PELVIS****TEST PARAMETERS****VALUE****DISPLACEMENT**Path length (mm): **270.64**Mean distance (mm): **3.98**Maximum distance (mm): **9.88**RMS (mm): **4.53**Range (mm): **9.85**Ellipse area(mm²): **53.08**Eccentricity: **0.90**Axis slope (°): **-2.40**Mean X (mm): **2.28**Mean Y (mm): **2.85****SPEED**Mean speed (mm/s): **13.59**Mean speed anterior-posterior (mm/s): **0.32**Mean speed medial-lateral(mm/s): **0.09**Speed ratio ML / AP (%): **27.40****ACCELERATION**Maximum acceleration (g): **1.00**

SESSION CLOSED EYES (10/07/2019 18:35:15)

SENSOR PELVIS

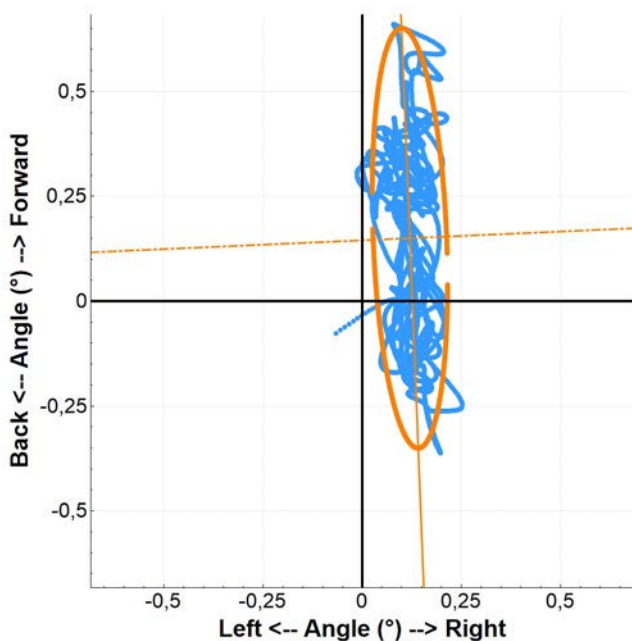
STATOKINESIGRAM

DISPLACEMENT



Path length (mm):	270.64
Mean distance (mm):	3.98
Maximum distance (mm):	9.88
RMS (mm):	4.53
Range (mm):	9.85
Ellipse area (mm ²):	53.08
Eccentricity:	0.90
Axis slope (°):	-2.40
Mean X (mm):	2.28
Mean Y (mm):	2.85

ANGLES



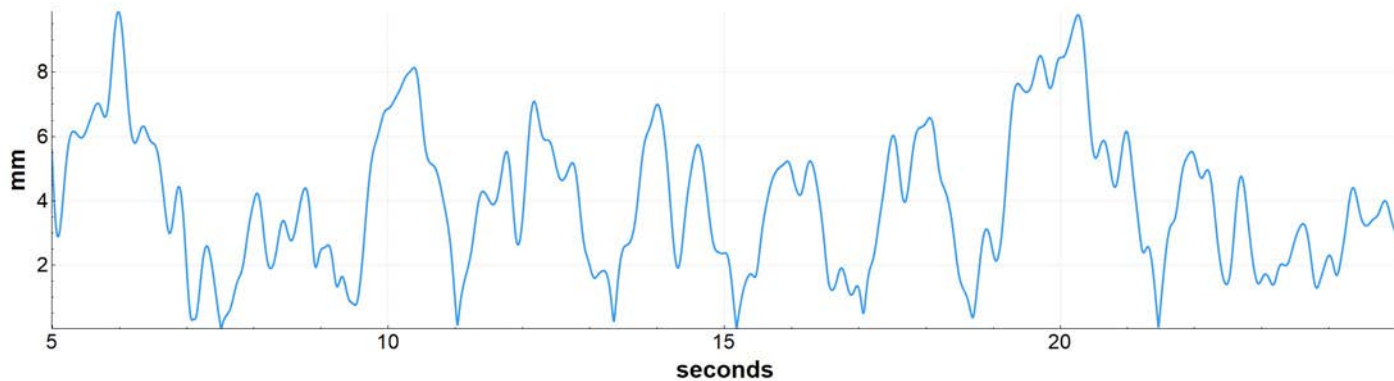
Angles sum frontal plane(°):	7.42
Angles sum sagittal plane(°):	10.43
Min angle frontal plane(°):	0.02
Max angle frontal plane(°):	0.21
Min angle sagittal plane(°):	-0.35
Max angle sagittal plane(°):	0.65
Range frontal plane(°):	0.19
Range sagittal plane(°):	1.00
Ellipse area(° ²):	0.15
Eccentricity:	0.90
Mean X(°):	0.12
Mean Y(°):	0.15

SESSION CLOSED EYES (10/07/2019 18:35:15)

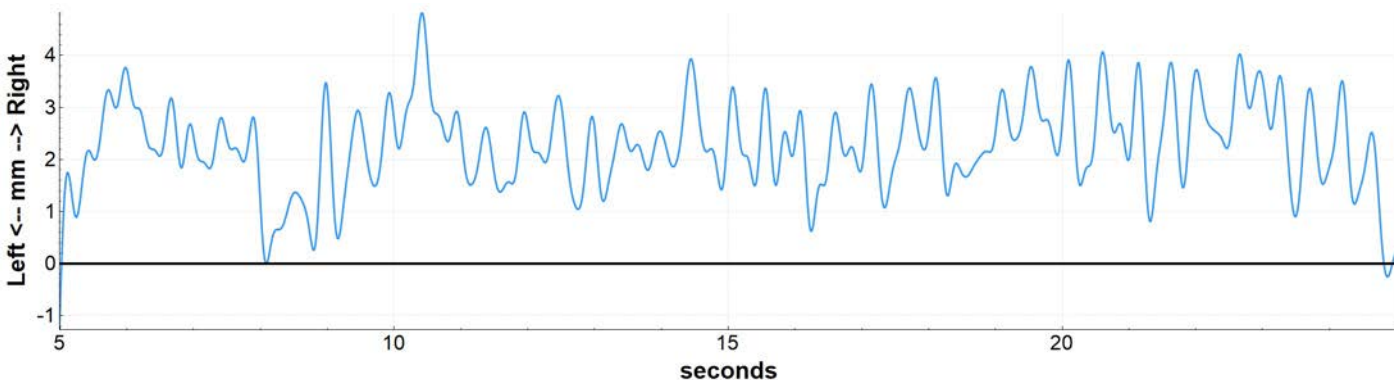
SENSOR PELVIS

STABILOGRAM

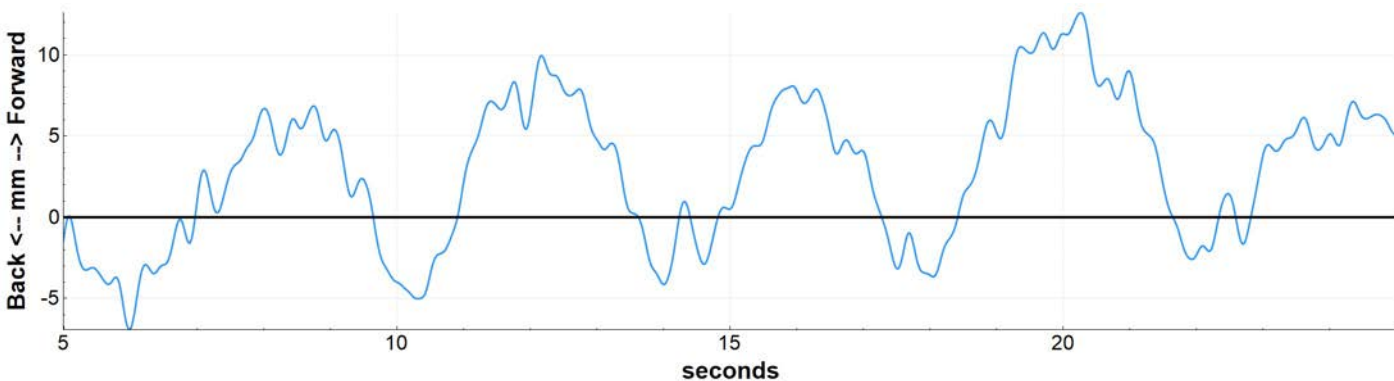
STABILOGRAM COG



STABILOGRAM MEDIAL-LATERAL



STABILOGRAM ANTERIOR-POSTERIOR

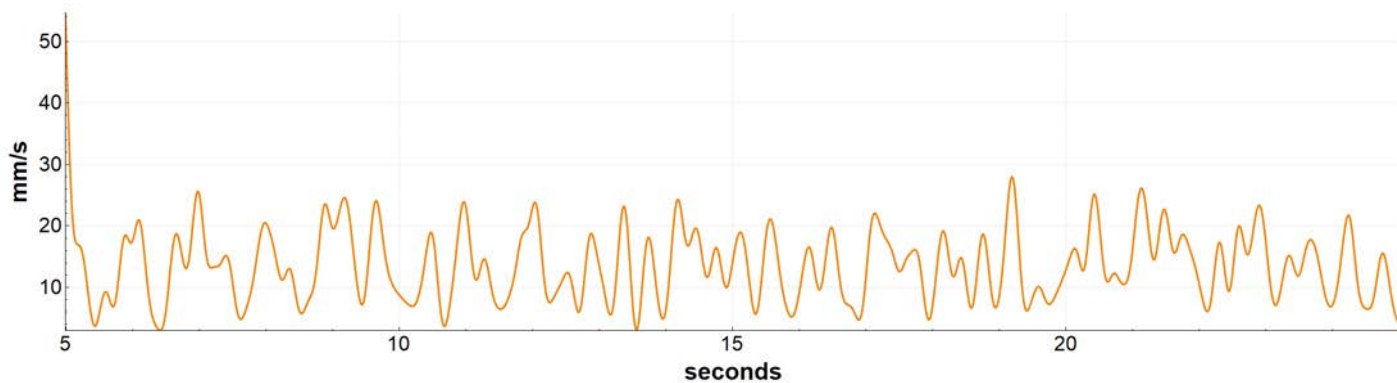


SESSION CLOSED EYES (10/07/2019 18:35:15)

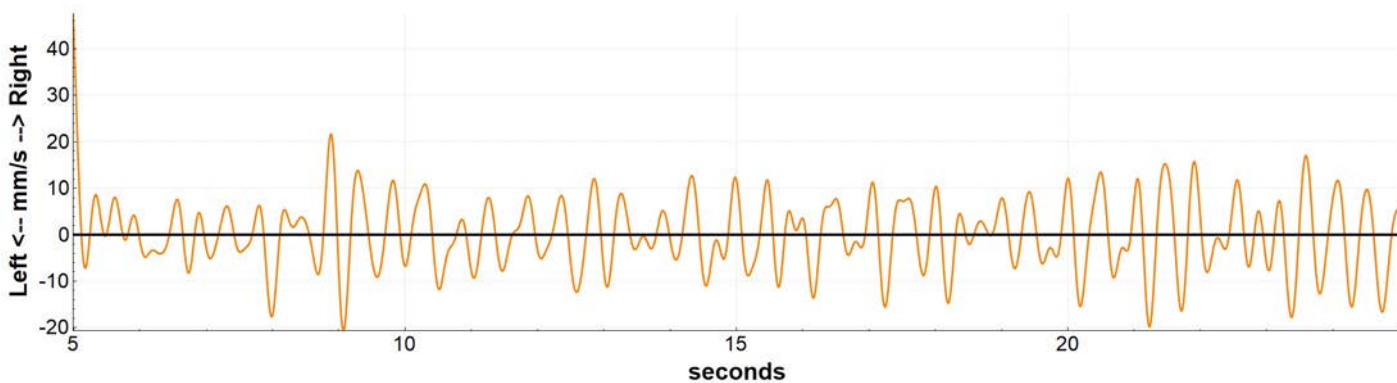
SENSOR PELVIS

SPEED

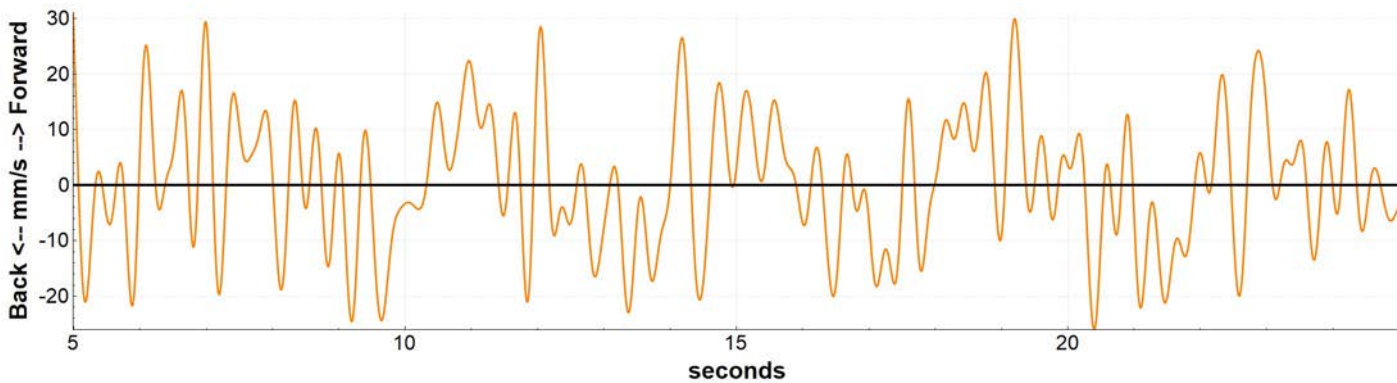
SPEED Mean speed = **13.59 mm/s**



SPEED MEDIAL-LATERAL Mean speed = **0.32 mm/s**



SPEED ANTERIOR-POSTERIOR Mean speed = **0.09 mm/s**



SESSIONS COMPARISON

SESSIONS	OPENED EYES	(10/07/2019 18:34:31)	CLOSED EYES	(10/07/2019 18:35:15)
SENSORS	HEAD			

ROMBERG INDICES

DISPLACEMENT

PARAMETER	OPENED EYES	CLOSED EYES	CLOSED EYES/ OPENED EYES
	10/07/2019 18:34:31	10/07/2019 18:35:15	
Path length	126.57 mm	124.96 mm	98.73 %
Mean distance	2.32 mm	1.32 mm	56.90 %
Maximum distance	5.00 mm	2.95 mm	59.00 %
RMS	2.63 mm	1.48 mm	56.27 %
Range	4.92 mm	2.93 mm	59.55 %
Ellipse area	23.20 mm ²	12.80 mm ²	55.17 %
Axis Slope	-12.80 °	-9.80 °	3.00 °
Mean speed	6.35 mm/s	6.27 mm/s	98.74 %
Mean speed anterior-posterior	-0.31 mm/s	0.10 mm/s	-32.26 %
Mean speed medial-lateral	-0.03 mm/s	-0.02 mm/s	66.67 %
Maximum Acceleration	1.02 g	1.01 g	99.02 %

ANGLES

PARAMETER	OPENED EYES	CLOSED EYES	CLOSED EYES/ OPENED EYES
	10/07/2019 18:34:31	10/07/2019 18:35:15	
Angles sum frontal plane	14.52 °	11.63 °	80.10 %
Angles sum sagittal plane	26.88 °	28.29 °	105.25 %
Min angles frontal plane	-0.94 °	-0.50 °	53.19 %
Max angle frontal plane	0.00 °	0.28 °	inf %
Min angle sagittal plane	-2.57 °	-0.67 °	26.07 %
Max angle sagittal plane	0.23 °	0.79 °	343.48 %
Range frontal plane	0.94 °	0.78 °	82.98 %
Range sagittal plane	2.80 °	1.47 °	52.50 %
Ellipse area	1.59 ° ²	0.88 ° ²	55.35 %

SESSIONS

OPENED EYES

(10/07/2019 18:34:31)

CLOSED EYES

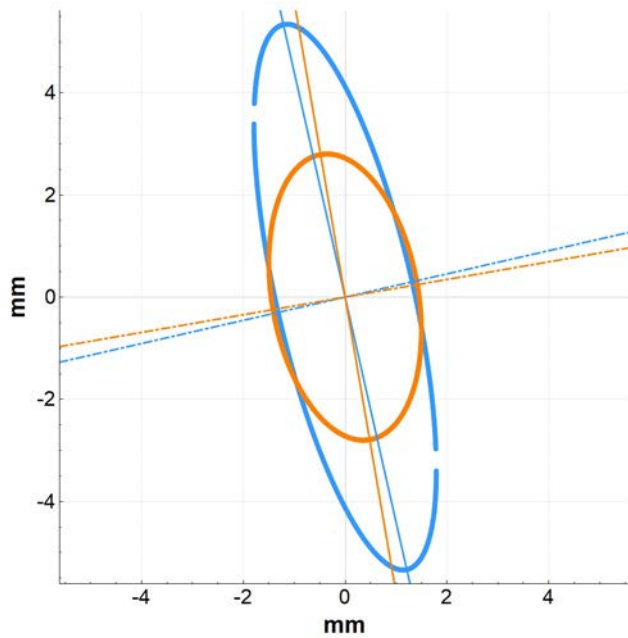
(10/07/2019 18:35:15)

SENSORS

HEAD

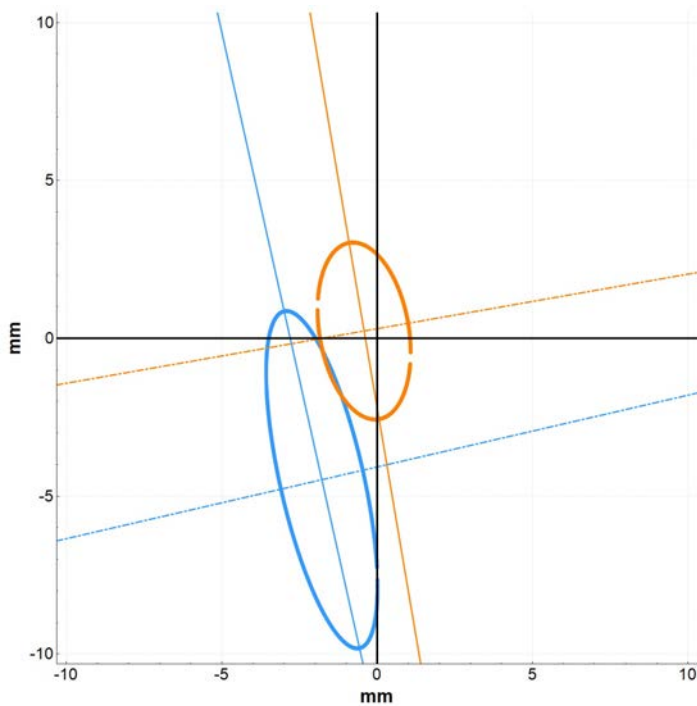
STATOKINESIGRAM

DISPLACEMENT



Path length:	98.73 %
Mean distance:	56.90 %
Maximum distance:	59.00 %
RMS:	56.27 %
Range:	59.55 %
Ellipse area:	55.17 %
Axis slope:	3.00 °

DISPLACEMENT



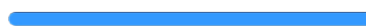
OPENED EYES

10/07/2019
18:34:31

CLOSED EYES

10/07/2019
18:35:15

Ellipse :



SESSIONS	OPENED EYES	(10/07/2019 18:34:31)	CLOSED EYES	(10/07/2019 18:35:15)
SENSORS	PELVIS			

ROMBERG INDICES

DISPLACEMENT

PARAMETER	OPENED EYES	CLOSED EYES	CLOSED EYES/ OPENED EYES
	10/07/2019 18:34:31	10/07/2019 18:35:15	
Path length	296.82 mm	270.64 mm	91.18 %
Mean distance	3.11 mm	3.98 mm	127.97 %
Maximum distance	14.08 mm	9.88 mm	70.17 %
RMS	4.00 mm	4.53 mm	113.25 %
Range	14.07 mm	9.85 mm	70.01 %
Ellipse area	54.42 mm ²	53.08 mm ²	97.54 %
Axis Slope	-0.90 °	-2.40 °	-1.50 °
Mean speed	14.90 mm/s	13.59 mm/s	91.21 %
Mean speed anterior-posterior	0.23 mm/s	0.32 mm/s	139.13 %
Mean speed medial-lateral	-0.23 mm/s	0.09 mm/s	-39.13 %
Maximum Acceleration	1.00 g	1.00 g	100.00 %

ANGLES

PARAMETER	OPENED EYES	CLOSED EYES	CLOSED EYES/ OPENED EYES
	10/07/2019 18:34:31	10/07/2019 18:35:15	
Angles sum frontal plane	8.55 °	7.42 °	86.78 %
Angles sum sagittal plane	11.21 °	10.43 °	93.04 %
Min angles frontal plane	-0.10 °	0.02 °	-20.00 %
Max angle frontal plane	0.12 °	0.21 °	175.00 %
Min angle sagittal plane	-0.35 °	-0.35 °	100.00 %
Max angle sagittal plane	0.52 °	0.65 °	125.00 %
Range frontal plane	0.22 °	0.19 °	86.36 %
Range sagittal plane	0.87 °	1.00 °	114.94 %
Ellipse area	0.15 ° ²	0.15 ° ²	100.00 %

SESSIONS

OPENED EYES

(10/07/2019 18:34:31)

CLOSED EYES

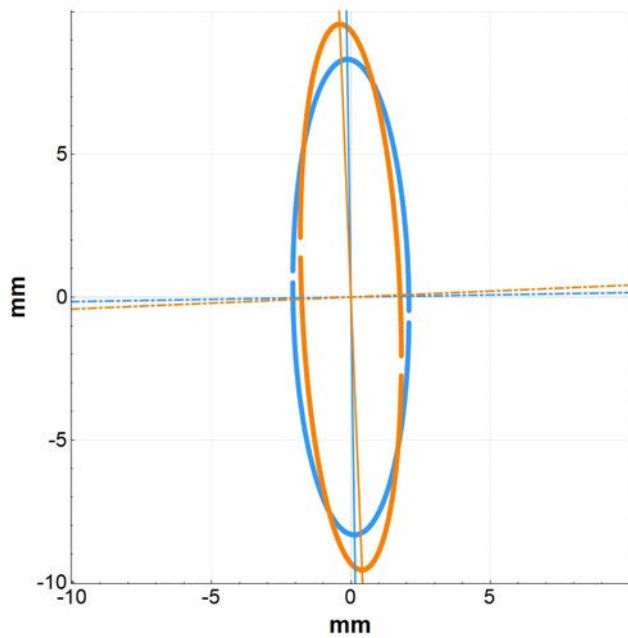
(10/07/2019 18:35:15)

SENSORS

PELVIS

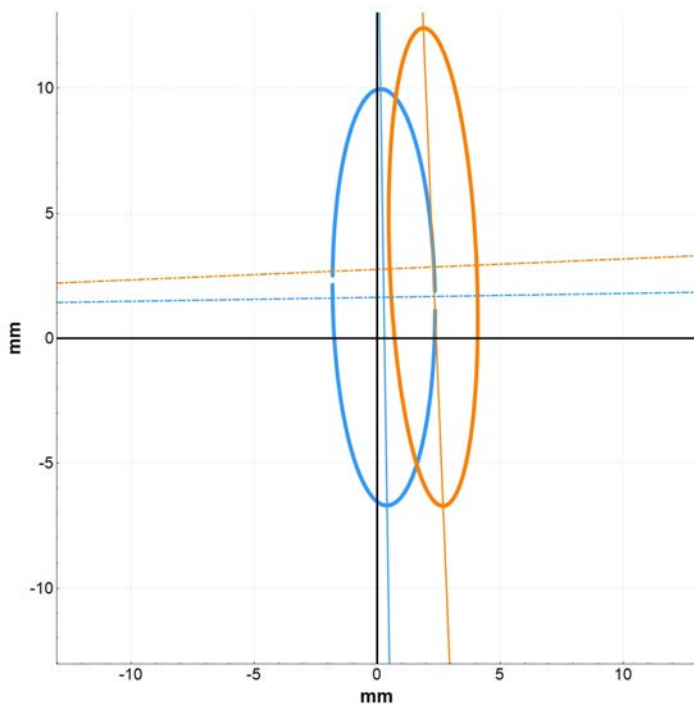
STATOKINESIGRAM

DISPLACEMENT



Path length:	91.18 %
Mean distance:	127.97 %
Maximum distance:	70.17 %
RMS:	113.25 %
Range:	70.01 %
Ellipse area:	97.54 %
Axis slope:	-1.50 °

DISPLACEMENT



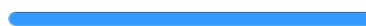
OPENED EYES

10/07/2019
18:34:31

CLOSED EYES

10/07/2019
18:35:15

Ellipse :



SENSORS COMPARISON

SESSIONS OPENED EYES (10/07/2019 18:34:31)

SENSORS HEAD PELVIS

RATIO

DISPLACEMENT

PARAMETER	HEAD 10/07/2019 18:34:31	PELVIS 10/07/2019 18:34:31	PELVIS/HEAD
Path length	126.57 mm	296.82 mm	234.51 %
Mean distance	2.32 mm	3.11 mm	134.05 %
Maximum distance	5.00 mm	14.08 mm	281.60 %
RMS	2.63 mm	4.00 mm	152.09 %
Range	4.92 mm	14.07 mm	285.98 %
Ellipse area	23.20 mm ²	54.42 mm ²	234.57 %
Axis slope	-12.80 °	-0.90 °	11.90 °
Mean speed	6.35 mm/s	14.90 mm/s	234.65 %
Mean speed anterior-posterior	-0.31 mm/s	0.23 mm/s	-74.19 %
Mean speed medial-lateral	-0.03 mm/s	-0.23 mm/s	766.67 %
Maximum Acceleration	1.02 g	1.00 g	98.04 %

ANGLES

PARAMETER	HEAD 10/07/2019 18:34:31	PELVIS 10/07/2019 18:34:31	PELVIS/HEAD
Angles sum frontal plane	14.52 °	8.55 °	58.88 %
Angles sum sagittal plane	26.88 °	11.21 °	41.70 %
Min angle frontal plane	-0.94 °	-0.10 °	10.64 %
Max angle frontal plane	0.00 °	0.12 °	inf %
Min angle sagittal plane	-2.57 °	-0.35 °	13.62 %
Max angle sagittal plane	0.23 °	0.52 °	226.09 %
Range frontal plane	0.94 °	0.22 °	23.40 %
Range sagittal plane	2.80 °	0.87 °	31.07 %
Ellipse area	1.59 ° ²	0.15 ° ²	9.43 %

SESSIONS

OPENED EYES

(10/07/2019 18:34:31)

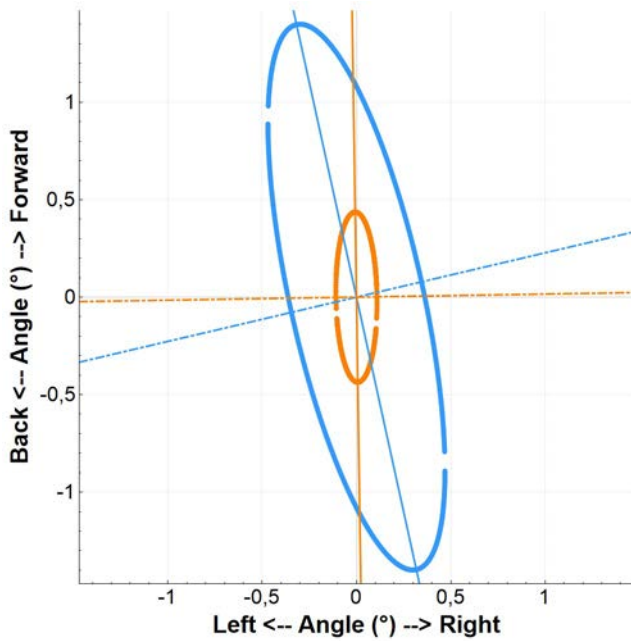
SENSORS

HEAD

PELVIS

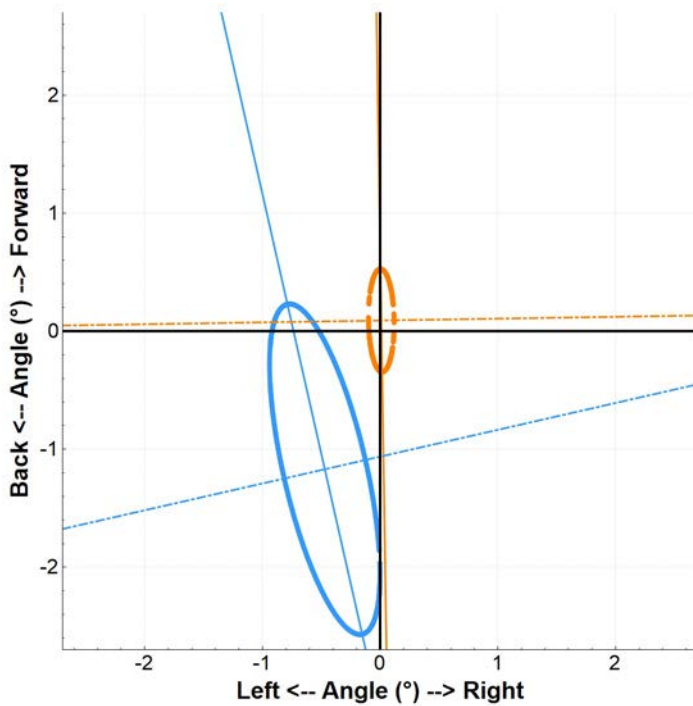
ANGULAR STATOKINESIGRAM

ANGLES



Angles sum frontal plane:	58.88 %
Angles sum sagittal plane:	41.70 %
Range frontal plane:	23.40 %
Range sagittal plane:	31.07 %
Ellipse area:	9.43 %

ANGLES



HEAD

10/07/2019
18:34:31

PELVIS

10/07/2019
18:34:31

Ellipse :



SESSIONS CLOSED EYES (10/07/2019 18:35:15)

SENSORS HEAD PELVIS

RATIO

DISPLACEMENT

PARAMETER	HEAD 10/07/2019 18:35:15	PELVIS 10/07/2019 18:35:15	PELVIS/HEAD
Path length	124.96 mm	270.64 mm	216.58 %
Mean distance	1.32 mm	3.98 mm	301.52 %
Maximum distance	2.95 mm	9.88 mm	334.92 %
RMS	1.48 mm	4.53 mm	306.08 %
Range	2.93 mm	9.85 mm	336.18 %
Ellipse area	12.80 mm ²	53.08 mm ²	414.69 %
Axis slope	-9.80 °	-2.40 °	7.40 °
Mean speed	6.27 mm/s	13.59 mm/s	216.75 %
Mean speed anterior-posterior	0.10 mm/s	0.32 mm/s	320.00 %
Mean speed medial-lateral	-0.02 mm/s	0.09 mm/s	-450.00 %
Maximum Acceleration	1.01 g	1.00 g	99.01 %

ANGLES

PARAMETER	HEAD 10/07/2019 18:35:15	PELVIS 10/07/2019 18:35:15	PELVIS/HEAD
Angles sum frontal plane	11.63 °	7.42 °	63.80 %
Angles sum sagittal plane	28.29 °	10.43 °	36.87 %
Min angle frontal plane	-0.50 °	0.02 °	-4.00 %
Max angle frontal plane	0.28 °	0.21 °	75.00 %
Min angle sagittal plane	-0.67 °	-0.35 °	52.24 %
Max angle sagittal plane	0.79 °	0.65 °	82.28 %
Range frontal plane	0.78 °	0.19 °	24.36 %
Range sagittal plane	1.47 °	1.00 °	68.03 %
Ellipse area	0.88 ° ²	0.15 ° ²	17.05 %

SESSIONS

CLOSED EYES

(10/07/2019 18:35:15)

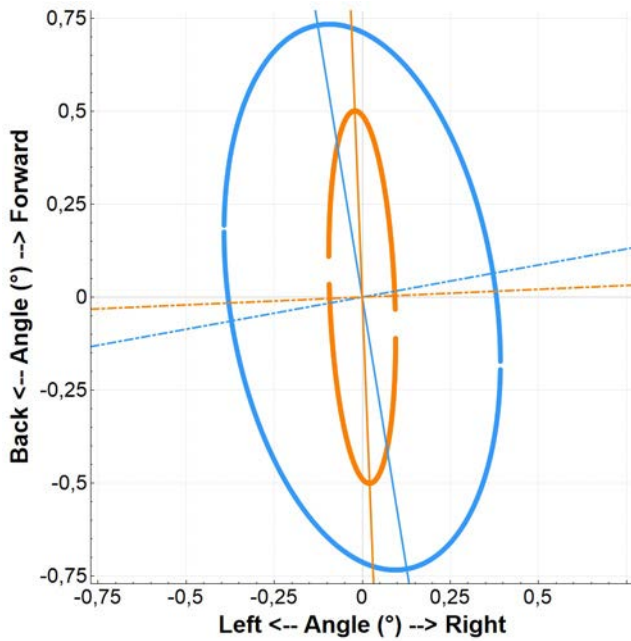
SENSORS

HEAD

PELVIS

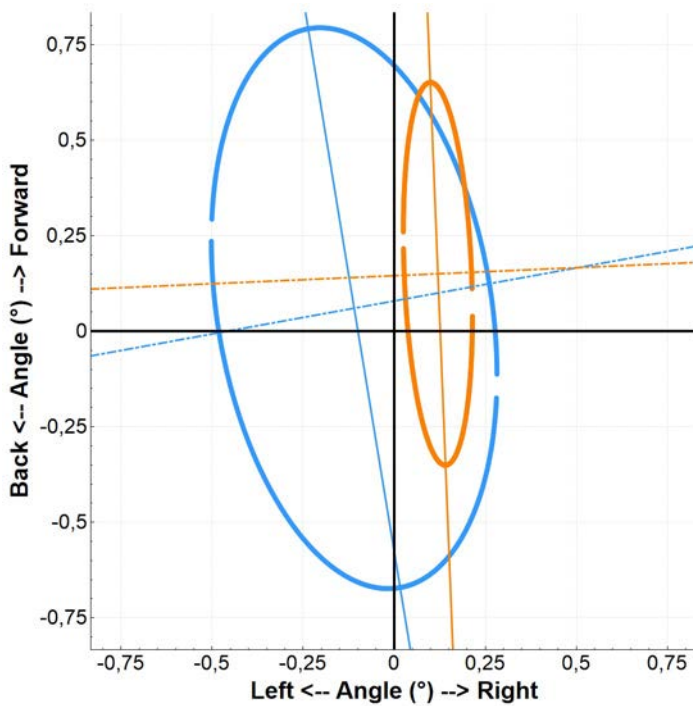
ANGULAR STATOKINESIGRAM

ANGLES



Angles sum frontal plane:	63.80 %
Angles sum sagittal plane:	36.87 %
Range frontal plane:	24.36 %
Range sagittal plane:	68.03 %
Ellipse area:	17.05 %

ANGLES



HEAD

10/07/2019
18:35:15

PELVIS

10/07/2019
18:35:15

Ellipse :

