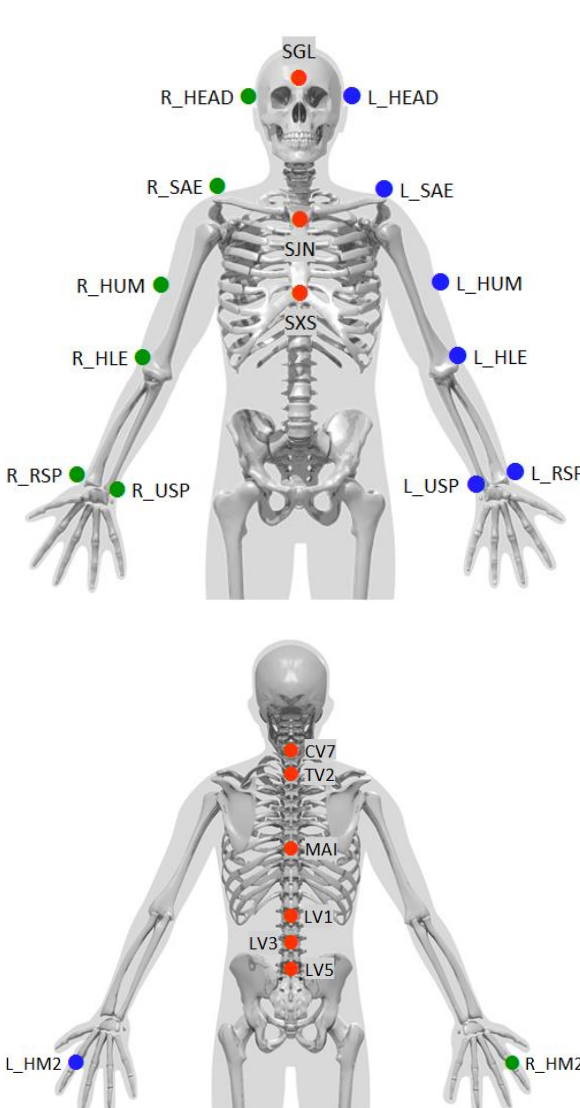


Qualisys PAF package: Instituti Ortopedici Rizzoli (IOR) upper body marker set ¹

	Name	Ref. ²	Location	Static (23)	Dyn. (23)
	L_HEAD		Just above the ear	X	X
	R_HEAD		Just above the ear	X	X
	SGL	SGL	Glabella	X	X
	SJN	SJN	Sternum - Jugular Notch	X	X
	SXS	SXS	Sternum - Xiphisternal joint	X	X
	CV7	CV7	7 th Cervical Vertebrae	X	X
	TV2	TV2	2 nd Thoracic Vertebrae	X	X
	MAI	MAI	Midpoint between inferior angles of most caudal points of the scapulae	X	X
	LV1	LV1	1 st Lumbar Vertebrae	X	X
	LV3	LV3	3 rd Lumbar Vertebrae	X	X
	LV5	LV5	5 th Lumbar Vertebrae	X	X
	L_SAE	SAE	Scapula - Acromial Edge	X	X
	L_HUM			X	X
	L_HLE	HLE	Humerus - Lateral Epicondyle	X	X
	L_RSP	RSP	Radius - Styloid Process	X	X
	L_USP	UPS	Ulna - Styloid Process	X	X
	L_HM2	HM2	Basis of Forefinger	X	X
	R_SAE	SAE	Scapula - Acromial Edge	X	X
	R_HUM			X	X
	R_HLE	HLE	Humerus - Lateral Epicondyle	X	X
	R_RSP	RSP	Radius - Styloid Process	X	X
	R_USP	USP	Ulna - Styloid Process	X	X
R_HM2	HM2	Basis of Forefinger	X	X	

¹ Leardini, A., Biagi, F., Merlo, A., Belvedere, C., & Benedetti, M.G. (2011). Multi-segment trunk kinematics during locomotion and elementary exercises. Clinical Biomechanics, 26, 562-571. doi: 10.1016/j.clinbiomech.2011.01.015

² Sint Jan, S. Van (2007). Color Atlas of Skeletal Landmark Definitions. Guidelines for Reproducible Manual and Virtual Palpations. Edinburgh: Churchill Livingstone.

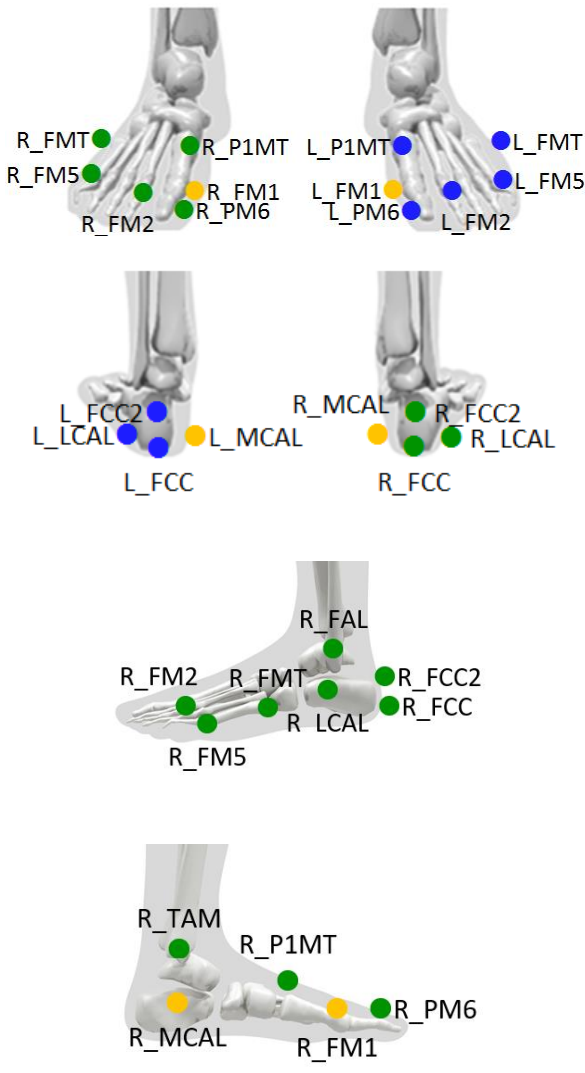
Qualisys PAF package: Istituti Ortopedici Rizzoli (IOR) lower body marker set ¹

Name	Ref. ²	Location	Static (26)	Dyn. (20)
L_IAS	IAS	Anterior superior iliac spine	X	X
L_IPS	IPS	Posterior superior iliac spine	X	X
R_IPS	IPS	Posterior superior iliac spine	X	X
R_IAS	IAS	Anterior superior iliac spine	X	X
L_FTC	FTC	Lateral side of greater trochanter, 1/3 from proximal end	X	X
L_FLE	FLE	Femur lateral epicondyle	X	X
L_FME	FME	Femur medial epicondyle	X	
L_FAX	FAX	Proximal tip of the head of the fibula	X	X
L_TTC	TTC	Most anterior border of the tibial tuberosity	X	X
L_FAL	FAL	Lateral prominence of the lateral malleolus	X	X
L_TAM	TAM	Medial prominence of the medial malleolus	X	
L_FCC	FCC	Aspect of the Achilles tendon insertion on the calcaneus	X	X
L_FM1	FM1	Dorsal margin of the first metatarsal head	X	X
L_FM2	FM2	Dorsal margin of the second metatarsal head	X	
L_FM5	FM5	Dorsal margin of the fifth metatarsal head	X	X
R_FTC	FTC	Lateral side of greater trochanter, 1/3 from proximal end	X	X
R_FLE	FLE	Femur lateral epicondyle	X	X
R_FME	FME	Femur medial epicondyle	X	
R_FAX	FAX	Proximal tip of the head of the fibula	X	X
R_TTC	TTC	Most anterior border of the tibial tuberosity	X	X
R_FAL	FAL	Lateral prominence of the lateral malleolus	X	X
R_TAM	TAM	Medial prominence of the medial malleolus	X	
R_FCC	FCC	Aspect of the Achilles tendon insertion on the calcaneus	X	X
R_FM1	FM1	Dorsal margin of the first metatarsal head	X	X
R_FM2	FM2	Dorsal margin of the second metatarsal head	X	
R_FM5	FM5	Dorsal margin of the fifth metatarsal head	X	X

¹ Leardini, A., Sawacha, Z., Paolini, G., Ingrosso, S., Nativio, R., & Benedetti, M.G. (2007). A new anatomically based protocol for gait analysis in children. *Gait & Posture*, 26, 560-571. doi: 10.1016/j.gaitpost.2006.12.018
http://www.c-motion.com/v3dwiki/index.php?title=Tutorial:_Building_the_IOR_Gait_Model

² Sint Jan, S. Van (2007). Color Atlas of Skeletal Landmark Definitions. Guidelines for Reproducible Manual and Virtual Palpations. Edinburgh: Churchill Livingstone.

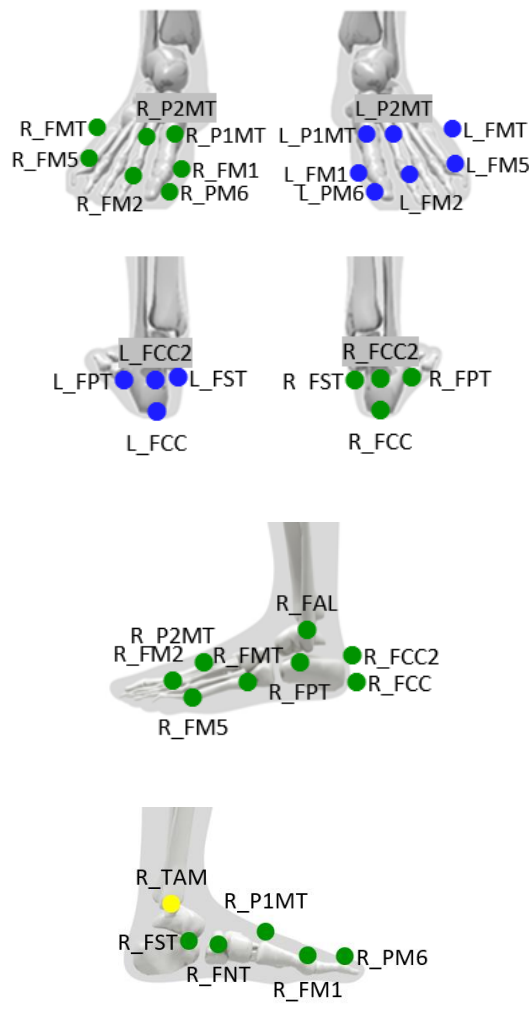
Qualisys PAF package: Istituti Ortopedici Rizzoli (IOR) lower body marker set ¹ (including Oxford foot model ³)

	Name	Ref. ²	Location	Static (20)	Dyn. (16)
	L_FCC2		Proximal end of posterior aspect of calcaneus	X	X
	L_FCC	FCC	Distal end of posterior aspect of calcaneus	X	X
	L_LCAL		Lateral calcaneus (placed on lateral aspect of the calcaneus, at the same distance to the most posterior point of calcaneus as L_MCAL) ³	X	X
	L_FMT	FMT	Tuberosity of the fifth metatarsal bone	X	X
	L_FM5	FM5	Base of fifth metatarsal (along the line through the distal heads of the first and fifth metatarsal heads) ³	X	X
	L_FM2	FM2	Dorsal margin of the second metatarsal head	X	X
	L_PM6	PM6	Proximal medial phalanx of the big toe	X	X
	L_FM1	FM1	Base of first metatarsal (along the line through the distal heads of the first and fifth metatarsal heads) ³	X	
	L_P1MT		Base of the first metatarsal bone	X	X
	L_MCAL		Medial calcaneus (placed on Sustentaculum tali, at the same distance to the most posterior point of calcaneus as L_LCAL) ³	X	
	R_FCC2		Proximal end of posterior aspect of calcaneus	X	X
	R_FCC	FCC	Distal end of posterior aspect of calcaneus	X	X
	R_LCAL		Lateral calcaneus (placed on the lateral aspect of calcaneus, at the same distance to the most posterior point of calcaneus as R_MCAL) ³	X	X
	R_FMT	FMT	Tuberosity of the fifth metatarsal bone	X	X
	R_FM5	FM5	Base of fifth metatarsal (along the line through the distal heads of the first and fifth metatarsal heads) ³	X	X
	R_FM2	FM2	Dorsal margin of the second metatarsal head	X	X
	R_PM6	PM6	Proximal medial phalanx of the big toe	X	X
	R_FM1	FM1	Base of first metatarsal (along the line through the distal heads of the first and fifth metatarsal heads) ³	X	
	R_P1MT		Base of the first metatarsal bone	X	X
	R_MCAL		Medial calcaneus (placed on Sustentaculum tali, at the same distance to the most posterior point of calcaneus as R_LCAL) ³	X	

¹ Leardini, A., Sawacha, Z., Paolini, G., Ingrosso, S., Nativio, R., & Benedetti, M.G. (2007). A new anatomically based protocol for gait analysis in children. *Gait & Posture*, 26, 560-571. doi: 10.1016/j.gaitpost.2006.12.018
http://www.c-motion.com/v3dwiki/index.php?title=Tutorial:_Building_the_IOR_Gait_Model

² Sint Jan, S. Van (2007). *Color Atlas of Skeletal Landmark Definitions. Guidelines for Reproducible Manual and Virtual Palpations*. Edinburgh: Churchill Livingstone.

³ Stebbins J, Harrington M, Thompson N, Zavatsky A, Theologis T. (2006) Repeatability of a model for measuring multi-segment foot kinematics in children. *Gait Posture*. 2006 Jun;23(4):401-10.

	Name	Ref. ²	Location	Static (24)	Dyn. (24)
	L_FCC2		Proximal end of posterior aspect of calcaneus	X	X
	L_FCC	FCC	Most distal point of the attachment area of the Achilles tendon on the calcaneus	X	X
	L_FPT	FPT	Lateral apex of the peroneal tubercle	X	X
	L_FMT	FMT	Base of the fifth metatarsal, dorso-lateral aspect of the fifth metatarso-cuboid joint	X	X
	L_FM5	FM5	Head of the fifth metatarsal, dorso-lateral aspect of the fifth metatarso-phalangeal joint	X	X
	L_FM2	FM2	Base of the second metatarsal, dorso-medial aspect of the second metatarso-cuneiform joint	X	X
	L_PM6	PM6	Most distal and dorsal point of the head of the proximal phalanx of the hallux	X	X
	L_FM1	FM1	Head of the first metatarsal, dorso-medial aspect of the first metatarso-phalangeal joint	X	X
	L_P1MT		Base of the first metatarsal, dorso-medial aspect of the first metatarso-cuneiform joint	X	X
	L_P2MT		Base of the second metatarsal, dorso-medial aspect of the second metatarso-cuneiform joint	X	X
	L_FNT	FNT	Most medial apex of the tuberosity of the navicular	X	X
	L_FST	FST	Most medial apex of the sustentaculum tali	X	X
	R_FCC2		Proximal end of posterior aspect of calcaneus	X	X
	R_FCC	FCC	Most distal point of the attachment area of the Achilles tendon on the calcaneus	X	X
	R_FPT		Lateral apex of the peroneal tubercle	X	X
	R_FMT	FMT	Base of the fifth metatarsal, dorso-lateral aspect of the fifth metatarso-cuboid joint	X	X
	R_FM5	FM5	Head of the fifth metatarsal, dorso-lateral aspect of the fifth metatarso-phalangeal joint	X	X
	R_FM2	FM2	Base of the second metatarsal, dorso-medial aspect of the second metatarso-cuneiform joint	X	X
	R_PM6	PM6	Most distal and dorsal point of the head of the proximal phalanx of the hallux	X	X
	R_FM1	FM1	Head of the first metatarsal, dorso-medial aspect of the first metatarso-phalangeal joint	X	X
	R_P1MT		Base of the first metatarsal, dorso-medial aspect of the first metatarso-cuneiform joint	X	X
	R_P2MT		Base of the second metatarsal, dorso-medial aspect of the second metatarso-cuneiform joint	X	X
	R_FNT	FNT	Most medial apex of the tuberosity of the navicular	X	X
	R_FST	FST	Most medial apex of the sustentaculum tali	X	X

¹ Leardini, A., Sawacha, Z., Paolini, G., Ingrosso, S., Nativio, R., & Benedetti, M.G. (2007). A new anatomically based protocol for gait analysis in children. *Gait & Posture*, 26, 560-571. doi: 10.1016/j.gaitpost.2006.12.018
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² Sint Jan, S. Van (2007). *Color Atlas of Skeletal Landmark Definitions. Guidelines for Reproducible Manual and Virtual Palpations*. Edinburgh: Churchill Livingstone.

³ Nicola Portinaro, Alberto Leardini, Artemisia Panou, Valerio Monzani and Paolo Caravaggi. Modifying the Rizzoli foot model to improve the diagnosis of pes-planus: application to kinematics of feet in teenagers. *Journal of Foot and Ankle Research* 2014, 7:57.