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**Appendix** 

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Current practices in clinical gait analysis in Europe: A comprehensive survey-based study from the European society for movement analysis in adults and children (ESMAC) standard initiative

Armand, Stéphane; Sawacha, Zimi; Goudriaan, Marije; Horsak, Brian; van der Krogt, Marjolein; Huenaerts, Catherine; Daly, Colm; Kranzl, Andreas; Boehm, Harald; Petrarca, Maurizio; Guiotto, Anna; Merlo, Andrea; Spolaor, Fabiola; Campanini,&nbsplsabella [and 7 more]

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Objective: To review current practice in Europe concerning Clinical Gait Analysis

2. Where is your gait laboratory? (country)	
<b>\$</b>	
3. Where is your gait laboratory? (city)	
4. In what type of institution is your Gait Lab locate	ed?
University Hospital	
O Public Hospital	
Private Hospital	
Clinical	
University	
Rehabilitation center	
Other (please specify)	
5. How many patients did you assess using instrumented 3-D gait analysis during the last 5 years.	are?
mistramented 5-2 gait analysis during the tast 5 year	ai 3.

0 100-200

$\sim$	200-500
$\bigcirc$	500-1000
$\bigcirc$	>1000
	w many patients did you assess using only video sis during the last 5 years?
0	<100
$\circ$	100-200
$\bigcirc$	200-500
$\bigcirc$	500-1000
$\bigcirc$	>1000
7. In y	your lab which age groups of patients do you ss?
$\bigcirc$	Children
$\bigcirc$	Adults
0	Both
	nich patient populations come into your lab for cal Gait Analysis (CGA)? Neurological problems:
	Cerebral palsy
	Cerebral palsy  Traumatic brain injury
	Traumatic brain injury
	Traumatic brain injury Stroke
	Traumatic brain injury Stroke Spina Bifida
	Traumatic brain injury Stroke Spina Bifida Idiopathic Toe Walkers
	Traumatic brain injury Stroke Spina Bifida Idiopathic Toe Walkers Neuromuscular diseases
	Traumatic brain injury  Stroke  Spina Bifida  Idiopathic Toe Walkers  Neuromuscular diseases  Multiple sclerosis
	Traumatic brain injury  Stroke  Spina Bifida  Idiopathic Toe Walkers  Neuromuscular diseases  Multiple sclerosis  Parkinson
	Traumatic brain injury  Stroke  Spina Bifida  Idiopathic Toe Walkers  Neuromuscular diseases  Multiple sclerosis  Parkinson  None
Clinic	Traumatic brain injury  Stroke  Spina Bifida  Idiopathic Toe Walkers  Neuromuscular diseases  Multiple sclerosis  Parkinson  None
Clinic	Traumatic brain injury  Stroke  Spina Bifida  Idiopathic Toe Walkers  Neuromuscular diseases  Multiple sclerosis  Parkinson  None  Other  Thich patient populations come into your lab for cal Gait Analysis (CGA)? Non-neurological
Clinic	Traumatic brain injury  Stroke  Spina Bifida  Idiopathic Toe Walkers  Neuromuscular diseases  Multiple sclerosis  Parkinson  None  Other  Inich patient populations come into your lab for cal Gait Analysis (CGA)? Non-neurological lems:

Orthoped	lic trau	uma									
Club Foot	t										
None											
Other											
0. Which pat our lab for C							e mos	st in			
Cerebral	palsy										
Traumation	c brair	n injur	у								
Stroke											
Spina Bifi	da										
Idiopathio	c Toe \	Walke	rs								
Neuromu	scular	disea	ses								
Multiple s	scleros	sis									
Parkinsor	1										
Other										_	
Arthrosis Spinal de Lower lim Orthoped Club Foot Other	nb amp lic trau	outees	5								
2. How often Scale 0-10 for	-					lway	s)				
Dooiding	0	1	2	3	4	5	6	7	8	9	10
Deciding on treatment specifics as a baseline measurement	0	0	0	0	0	0	0	0	0	0	0
Determining treatment effect - short term	$\bigcirc$	0	0	0	0	0	0	0	0	0	$\bigcirc$
Determining treatment effect - long term	0	$\bigcirc$	0	0	$\circ$	0	$\bigcirc$	0	0	$\circ$	0

	0	1	2	3	4	5	6	7	8	9	10
Follow up the natural history of the disease	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
13. How much your institution			) doe	s a C	linica	ıl Gai	t Ana	llysis	in		
O No costs											
1-100											
100-200											
200-500											
500-1000											
1000-1500	О										
1500-200	0										
>2000											
14. Do you use	e one	of th	e bes	st pra	actice	e guid	leline	s for			
CGA?						-					
	1	٧o		Par	tially		Com	pletel	у		
CMAS	(	$\subset$		(	$\subset$		(	$\bigcirc$			
SIAMOC	(	$\supset$		(	$\supset$		(	$\bigcirc$			
SENIAM	(	$\supset$		(	$\sim$		(	$\bigcirc$			
CMLA	(	$\supset$		(	$\supset$		(	$\circ$			
Other		$\mathcal{C}$			$\mathcal{C}$		(	0			
Please specify th	ne soc	iety			_						
<b>15. How many</b> these societie							ers of	f one	of		
SIAMOC									_		
CMAS									٦		
GAMMA											
SOFAMEA									_		
SMALLL									٦		
Other											
(please write the name of											
the society											
and number)											

16. Does you	r lab have a	licence to	conduc	t CGA?			
Yes							
○ No							
○ There is	no licence to	conduct CGA	in my c	ountry			
) mara ia		00114401 047		o a ,			
17. How man work in the g					plines		
Physiotherap ist							
Orthopaedic surgeon							
PRM doctor							
Sport scientist							
Bioengineer							
Clinical							
technologist							
Neurologist							
Orthotist							
Prosthetist					_		
Podiatrist							
Pediatrician Pediatrician							
Researcher							
If ath an							
If other specify who							
and numbers							
18. Who is th	e head of tl	he gait lab?					
Ph	ysiotherapist	Orthopaedic surgeon		Sport Scientist	Bioengineer	Clinical technologist	Neur
Medical	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	(
Technical	$\bigcirc$	$\bigcirc$	$\circ$	$\bigcirc$	$\bigcirc$	$\bigcirc$	(
Please specify	who						
19. In which		wing tasks a	are the	staff wo	rking		
in the CGA ir	ivolved?						
Decision	n to perform t	he CGA					

Physical exam	1							
Data collectio	n							
Data processi	ng							
Data reductio	n/analy	/sis						
Data interpret	ation							
Clinical decisi	on-mal	king relati	ed to	the ou	tcome	s of the		
Other								
20. How often do asks?	staff	receive t	train	ing in	the f	ollowing		
	Never	Only at the opening of the lab	once a	once each 2	each 5	Randomly	Not used in my lab	Other (please specify below)
Physical exam	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	$\circ$	$\bigcirc$	0	$\bigcirc$
Marker placement	$\bigcirc$	$\bigcirc$	0	0	$\circ$	0	$\bigcirc$	$\circ$
Surface EMG placement	0	$\bigcirc$	0	$\bigcirc$	0	$\circ$	0	$\bigcirc$
Fine-wire EMG placement	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Data collection	$\bigcirc$	$\bigcirc$	0	0	$\circ$	$\circ$	0	$\bigcirc$
Data reduction/analysis	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Data interpretation	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	0	0	$\bigcirc$	$\bigcirc$
Clinical recommendations	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Other (please specify below)	$\bigcirc$	$\bigcirc$	0	0	0	$\circ$	0	$\bigcirc$
Please specify								
21. How often do consistency of th						tasks?		
	Never	Only at the opening of the lab	once a	once each 2	each 5	Randomly	Not used in my lab	Other
Physical exam	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Marker placement	$\bigcirc$	0	$\bigcirc$	0	$\bigcirc$	0	$\bigcirc$	$\bigcirc$
Surface EMG placement	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	0	$\circ$	0	$\bigcirc$
Fine-wire EMG placement	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\circ$	$\bigcirc$	$\bigcirc$
Data collection	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0	$\circ$	$\bigcirc$	$\bigcirc$
Data reduction/analysis	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$

	Never	Only at the opening of the lab	once a	2	once each 5	Randomly	Not used in my lab	Other
Data interpretation	$\circ$	$\bigcirc$	0	$\bigcirc$	0	0	0	$\bigcirc$
Clinical recommendations	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Other	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\circ$	$\bigcirc$	$\bigcirc$
22. What time (in the following task	ks rela	ated to t	the C	GA? F				
Appointment scheduling								
Preparation of the lab								
Physical exam								
Subject preparation (marker, EMG placement)								
Data collection								
Data reduction/an alysis								
Creation of CGA report								
Data interpretatio n and reporting								
Other tasks, please specify								
23. What are the lab? Size of room			ensio	ns of :	your §	gait		
Length								
Width								
Height								

### 24. Do your gait lab facilities include the following?

	Yes	No
Access for disabled patients	$\circ$	$\circ$
Controlled access for security purposes during patient assessment	0	0
A minimum 7 metre walking space for gait data collection	0	0
Room temperature adjustable thermostat	$\circ$	0
A quiet and non- distracting environment	0	0
A designated area where the patient can both change and be examined in privacy	0	0
Patient toilet facilities, including toilet for the disabled	0	0
Adequate seating facilities available for patients and families	0	0
Staff hand washing facilities	0	$\circ$
Non-slip, level and obstacle free floor	0	0
Daily floor cleaning	0	0
Examination couch and covers which are cleaned between each patient	0	0
Other facilities, p	olease specify	

25. Which equipment do you use for CGA and how much of each device do you use in your lab? Please type 0 if none.

Video camera				
Stereophoto				
grammetric system with				
passive				
markers				
Stereophoto grammetric				
system with				
active markers				
markers				
Force plates				
Torce places				
Surface				
electromyogr				
aphy				
Fine-wire				
electromyogr aphy				
Plantar				
pressure plate				
piale				
Plantar				
pressure				
insoles				
Inertial				
sensors				
Oxygen consumption				
system				
Activity				
monitor				
GPS				
Treadmill				
Instrumente d Treadmill				
u rreaumill				
Othor				
Other (please				
specify)				
26. Which equipment u	sed in y	our lab f	or CGA I	nas a
medical CE marking?				
			1.1.0	NI=:
	Yes	No	I don't know	Not used in my lab
Video camera			$\bigcirc$	
Stereophotogrammetric system	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Force plates	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
	$\overline{}$	$\overline{}$	$\overline{}$	

	Yes	No	I don't know	Not used in my lab
Electromyography	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Fine-Wire Electromyography	$\bigcirc$	0	$\bigcirc$	$\bigcirc$
Plantar pressure plate	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Plantar pressure insoles	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Inertial sensors	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Oxygen consumption system	$\bigcirc$	0	$\bigcirc$	$\bigcirc$
Activity monitor	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
GPS	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Treadmill	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Instrumented Treadmill	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Other (please specify)				
Video camera				
Stereophoto grammetric				
system				
Force plates				
Electromyogr aphy				
Fine-Wire Electromyogr aphy				
Plantar pressure plate				
Plantar pressure insoles				
Inertial sensors				
Activity monitor				
GPS				
Instrumente d Treadmill				

Other (please								
specify)								
28. Which of th synchronized t			es of you	· lab are	e			
Video came	era							
Stereophot	ogramm	netric system						
Force plate	S							
Surface Ele	ctromyc	graphy						
Fine-Wire E	lectrom	yography						
Plantar pre	ssure pl	ate						
Plantar pre	ssure in	soles						
Inertial sen	sors							
Oxygen cor	nsumptio	on system						
Activity mo	nitor							
GPS								
Treadmill	Treadmill							
Instrument	ed Tread	dmill						
Other (plea	ıse speci	ify)						
						_		
29. How often during CGA?	do you	collect the	following	g datas	ets			
-	Nover	Comptimes	Dogularly	Ofton	Alwaya			
Video footage	Never	Sometimes	Regularly	Often	Always			
Lower limb	0							
kinematics Lower limb	O		O	O	O			
kinetics	$\circ$	$\circ$	$\circ$	0	$\circ$			
Trunk and/or arm kinematics	$\bigcirc$	$\circ$	$\bigcirc$	$\bigcirc$	$\circ$			
Foot multi- segment kinematics	$\circ$	0	$\bigcirc$	$\circ$	$\circ$			
GRFs ( video vector)	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$			
Surface EMG	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$			
Fine-wire EMG	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$			
Plantar pressure	$\circ$	$\circ$	$\bigcirc$	$\bigcirc$	$\bigcirc$			
Physical exam	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$			
Questionnaires	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$			
Inertial sensors	$\bigcirc$	$\circ$	$\bigcirc$	$\bigcirc$	$\bigcirc$			

	Never	Sometimes	Regularly	Often	Always
Oxygen consumption	$\bigcirc$	$\circ$	$\circ$	$\bigcirc$	0
Please specify					
30. Do you use standard CGA f pathologies? If	for spe	cific treatr			of the
Energy exp	penditur	e/Oxygen coi	nsumption		
Instrument	ed spast	ticity measur	rements		
Instrument and HHD)	ed stren	gth measure	ements (oth	er than N	ММТ
Muscle ima	ıging				
Bone imagi	ng				
Activity and	d partici	pation quest	ionnaires		
Extended r model)	narker c	onfiguration	(i.e: Multise	egment fo	oot
Upper limb	assessr	nents (speci	fic tasks for	the upp	er limb)
Markerless	tracking	g devices			
Pressure in	soles				
None					
Other (plea	ise speci	ify)			
31. What is the consider it nec interpret CGA is Spatio-temporal parameters	essary	to collect	to satisfa		at you
Kinematics					
Kinetics					
Surface EMG					
Fine-wire EMG					
Plantar pressure					

32. Do an external company (e.g. the manufacturer) perform a technical calibration of the systems used for CGA?

	Never	Only at the opening of the lab	On specific request without an established review schedule	а	Once two years	Not used in my lab
Video camera	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\circ$	$\bigcirc$
Stereophotogrammetric system	$\bigcirc$	$\bigcirc$	$\circ$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Force plates	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Surface electromyography	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Fine-wire electromyography	$\bigcirc$	$\bigcirc$	$\circ$	$\bigcirc$	0	$\bigcirc$
Plantar pressure plate	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Plantar pressure insoles	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\circ$	$\bigcirc$
Inertial sensors	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Oxygen consumption system	$\bigcirc$	$\bigcirc$	$\circ$	$\bigcirc$	0	$\bigcirc$
Activity monitor	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
GPS	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Treadmill	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Instrumented Treadmill	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Other (please specify)	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Please specify						

# 33. Do an external company (e.g. the manufacturer) perform a quality control assessment of the systems used for CGA?

	Not used in my lab	Never	Only at the opening of the lab	On specific request without an established review schedule	Once a year	Once two years
Video camera	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Stereophotogrammetric system	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Force plates	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	0
Surface electromyography	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Fine-wire electromyography	0	$\bigcirc$	$\circ$	$\circ$	$\bigcirc$	0
Plantar pressure plate	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Plantar pressure insoles	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Inertial sensors	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Oxygen consumption system	0	0	$\circ$	$\circ$	$\bigcirc$	$\bigcirc$
Activity monitor	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
GPS	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Treadmill	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Instrumented Treadmill	0	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
Other	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$

Please specify		

# 34. Do you have documentation (written or electronic) in your CGA including the following

	Yes	No	Not relevant for my lab
List of current staff employed	$\bigcirc$	$\bigcirc$	$\bigcirc$
List of of training of the staff employed	$\bigcirc$	$\bigcirc$	$\bigcirc$
Protocol to install CGA equipment and software	$\bigcirc$	$\circ$	$\bigcirc$
Protocol to check the quality of your CGA equipment	$\bigcirc$	$\bigcirc$	$\bigcirc$
Protocol to check within and between consistency of the staff - Methods to check consistency	$\bigcirc$	$\bigcirc$	$\circ$
Protocol to check within and between consistency of the staff - Limit of acceptability	$\bigcirc$	$\bigcirc$	$\circ$
Protocol for lab preparation - Calibration	$\bigcirc$	$\bigcirc$	$\bigcirc$
Protocol for lab preparation - Checking equipment	$\bigcirc$	$\bigcirc$	$\bigcirc$
Protocol for patient preparation - Marker placement	$\bigcirc$	$\circ$	$\circ$
Protocol for patient preparation - Marker attachment on the skin	$\bigcirc$	$\bigcirc$	$\bigcirc$
Protocol for patient preparation - Skin preparation for EMG	$\bigcirc$	$\circ$	$\circ$
Protocol for patient preparation - EMG placement	$\bigcirc$	$\bigcirc$	$\bigcirc$
Protocol for patient preparation - EMG attachment on the skin	$\bigcirc$	0	$\bigcirc$
Protocol for patient preparation - IMU sensor placement/calibration/attachment on the skin	$\bigcirc$	$\bigcirc$	$\circ$
Protocol for data collection - Instructions for patients	$\bigcirc$	$\circ$	$\bigcirc$
Protocol for data collection - Tasks to collect	$\bigcirc$	$\bigcirc$	$\bigcirc$
Protocol for data collection - Number of trials/cycles	$\bigcirc$	0	$\bigcirc$
Protocol for data collection - Number of cycles on forceplates	$\bigcirc$	$\bigcirc$	$\bigcirc$
Protocol for data collection - Checking of marker trajectories	$\bigcirc$	$\circ$	$\bigcirc$
Protocol for data collection - Checking of EMG	$\bigcirc$	$\bigcirc$	$\bigcirc$
Protocol for data collection - Criteria to categorize a useful or not useful trial	$\bigcirc$	$\circ$	$\circ$
Protocol for data processing including methods and software - Event detection	$\bigcirc$	$\bigcirc$	$\bigcirc$
Protocol for data processing including methods and software - Spatio-temporal data	$\bigcirc$	$\circ$	$\circ$
Protocol for data processing including methods and software - 2D kinematics data	$\bigcirc$	$\bigcirc$	$\circ$

_	ods and software tory reconstruction	$\circ$	0	Not relevant for lab
Protocol for da including meth - Marker labell	ods and software	$\bigcirc$	$\bigcirc$	$\circ$
Protocol for da including meth - Marker filterin	ods and software	$\bigcirc$	0	0
- EMG (e.g. filte	ta processing lods and software ering techniques ng identification)	$\circ$	0	$\circ$
Protocol for da including meth - 3D Kinematic	ods and software	$\circ$	0	$\circ$
Protocol for da including meth - 3D Kinetics d	ods and software	$\bigcirc$	$\bigcirc$	$\bigcirc$
Protocol for da including meth - Plantar Press	ods and software	$\circ$	0	$\circ$
	Biomechanical model used with potential sources of error in their calculation			$\circ$
Protocol to che	eck data quality	$\bigcirc$	$\bigcirc$	$\bigcirc$
Protocol for ph	ysical examination	$\bigcirc$	$\circ$	$\circ$
Protocol for re	porting	$\bigcirc$	$\bigcirc$	$\bigcirc$
Protocol for int	erpretation	$\bigcirc$	$\bigcirc$	$\bigcirc$
Protocol for cle equipment use	-	$\bigcirc$	$\circ$	$\circ$
Protocol for da (place,backed	_	$\bigcirc$	$\bigcirc$	$\bigcirc$
Protocol for file formats	enames and	$\bigcirc$	$\circ$	$\bigcirc$
	afety procedures, e events occurring	$\bigcirc$	$\bigcirc$	$\bigcirc$
Other (please sp	ecify)			
35. Are your d	ocuments?			
	Yes		No	)
Stored in a folder in the lab	0			
Available in electronic format	Available in electronic			)
Backed up	$\circ$		C	)
Revised after a defined period	0		C	)

36. In order to review your documents and your practice, does your lab have appointed auditors?

auditor	_		_
External auditor	$\bigcirc$		$\bigcirc$
7. Which equipment is cquisition?	s checked b	efore data	ı
	Yes	No	Not relevant (because I do not use this equipment)
Digital video quality	$\bigcirc$	$\bigcirc$	$\bigcirc$
Stereophotogrammetric system Calibration quality	$\circ$	$\circ$	0
Presence of all stereophotogrammetric system markers	$\circ$	$\bigcirc$	0
Forceplates offset	$\bigcirc$	$\bigcirc$	$\bigcirc$
EMG - good signal for each muscle	$\circ$	0	$\circ$
EMG - crosstalk	$\bigcirc$	$\bigcirc$	$\bigcirc$
		_	_
Others	$\bigcirc$	$\bigcirc$	
Others lease specify	0		
lease specify			
lease specify 8. What do you check			Not relevant (because I do not use this
lease specify	during data	a acquisiti	Not relevant (because I do not use
lease specify  8. What do you check  Visibility of stereophotogrammetric system markers	during data	a acquisiti	Not relevant (because I do not use this
lease specify  8. What do you check  Visibility of stereophotogrammetric system markers trajectories	during data	a acquisiti	Not relevant (because I do not use this
Visibility of stereophotogrammetric system markers trajectories Loss of EMG signal (i.e. detachment of an	during data	a acquisiti	Not relevant (because I do not use this
Visibility of stereophotogrammetric system markers trajectories Loss of EMG signal (i.e. detachment of an electrode) Loss of forceplate	during data	a acquisiti	Not relevant (because I do not use this
Visibility of stereophotogrammetric system markers trajectories Loss of EMG signal (i.e. detachment of an electrode) Loss of forceplate signals Saturation of forceplate	during data  Yes  O	a acquisiti	Not relevant (because I do not use this
Visibility of stereophotogrammetric system markers trajectories Loss of EMG signal (i.e. detachment of an electrode) Loss of forceplate signals Saturation of forceplate signals Foot placement on	during data  Yes  O	a acquisiti	Not relevant (because I do not use this

Yes

No

39. What do you check before the patient leaves the lab?

	Yes		No	(b	t relevant ecause I not use this uipment)	
Number of satisfactory forceplate	res		INO	eq	uipinent)	
strikes available for kinetic analysis	0		0			
Critical loss of markers	$\bigcirc$		$\bigcirc$		$\bigcirc$	
Critical loss of EMG signal	$\bigcirc$		$\circ$		$\bigcirc$	
Critical loss						
of forceplate signals	$\bigcirc$		$\bigcirc$		$\bigcirc$	
Other(s)	$\bigcirc$		$\bigcirc$		$\bigcirc$	
Please specify						
10. Do you per	form otl	her checks	after da	ı <b>ta acqı</b> No	iisition?	
Marker		.00				
trajectories (quality, number of available trajectories)		0		0	1	
EMG signal						
(quality, lost of signal, crosstalk)		0		0	1	
Forceplate signal (quality,						
lost of signal, number of kinetic steps)		0		0	ı	
Other		$\bigcirc$		0	ı	
Please specify						
41. Do you do these steps for data preparation?  Device						
	Always	Sometimes	Never	I don't know	not used in my lab	
Event detection with forceplates and autocorrelation	0	0	$\circ$	$\circ$	0	
Event detection with marker trajectories (e.g. Zeni et al. 2008)	0	$\circ$	$\circ$	$\circ$	0	
2008)						

Not relevant

	Always	Sometimes	Never	I don't know	Device not used in my lab
Event detection performed manually	0	0	0	0	0
Event detection checked manually	0	0	$\bigcirc$	$\circ$	0
Gap filling marker trajectories	$\bigcirc$	0	$\bigcirc$	0	$\circ$
Smoothing marker trajectories	$\circ$	0	$\circ$	0	$\circ$
Smoothing forceplate signals	$\bigcirc$	0	$\bigcirc$	0	$\circ$
Filtering EMG signals	$\bigcirc$	$\circ$	$\bigcirc$	$\circ$	$\circ$
Rectification and smoothing to obtain EMG envelope	0	0	$\circ$	0	0

NEXT

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Could you specify the method, the software and parameters used for data preparation?

42. Event dete	ectori
Method (e.g. Zeni et al. 2008) (text, 999 for I don't know)	
Software (e.g. Nexus, QTM, Visual 3D, Matlab, Python, Mokka) (text, 999 for I don't know)	
43. Gap filling	
- Method (e.g. spline, rigid body, intercorrelation, Kalman filter) (text, 999 for I don't know)	
Max gap size allowed (number, 999 for I don't know)	
Software (e.g. Nexus, QTM, Visual 3D, Matlab, Python) (text, 999 for I don't know)	
Other (text)	
44. Smoothing	g marker trajectories
Method (e.g. low-pass filter, moving mean, polynomial interpolation) (text, 999 for I don't know)	
Related cut-off frequency (e.g. 10Hz) (text, 999 for I don't know)	
Software (e.g. Nexus, QTM, Visual 3D, Matlab, Python) (text, 999 for I don't know)	

low-pass filter, moving mean, polynomial interpolation) (text, 999 for I don't know)	
Software (e.g. Nexus, QTM, Visual 3D, Matlab, Python) (text, 999 for I don't know)	
Related cut-off frequency (e.g. 10Hz) (text, 999 for I don't know)	
46. Filtering E	MG signal
Filter (e.g. low- pass filter) (text, 999 for I don't know)	
Related cut-off frequency (e.g. 6Hz) (text, 999 for I don't know)	
Software used (e.g. Visual 3D, Matlab, Python) (text, 999 for I don't know)	
47. Rectificati	on and smoothing EMG signal (envelope)
Method used (Description - Reference) (text, 999 for I don't know)	
Software used (e.g. Nexus, QTM, Visual 3D, Matlab, Python) (text, 999 for I don't know)	
Parameter(s) of the method (e.g. Max gap size for gap filling, filter type and cut-off frequency for	
Smoothing)	
48. Other	
-	
48. Other  Method used (Description - Reference) (text, 999 for I don't	
48. Other  Method used (Description - Reference) (text, 999 for I don't know)  Software used (e.g. Nexus, QTM, Visual 3D, Matlab, Python) (text, 999 for I	



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49. For kinematics and kinetics computation, do you use the Conventional Gait Model (i.e. Plug-in-Gait) without any customisation?

Always with wands on thigh and shank, without KAD (Knee Alignment device)								
Always with wands on thigh and shank, and KAD								
Always with markers on thigh and shank, without KAD (Knee Alignment device)								
Always with markers on thigh and shank, and KAD								
Sometimes								
Never								
I don't know								
O Device not used in my lab								
PREV NEXT								

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# 50. Which methods do you use for kinematics $\,$ and kinetics computation ?

	Always	Sometimes	Never	I don't know
CGM - With wands on thigh and shank	0	0	0	0
CGM - With markers on thigh and shank	0	0	0	0
CGM - With customisation (e.g. Internal knee markers)	0	0	0	0
Calibrated Anatomical System Technique – CAST	0	0	0	0
Istituto Ortopedico Rizzoli – IORGait	0	0	0	0
Human Body Model - HBM	$\circ$	$\circ$	$\bigcirc$	$\bigcirc$
Kinematics fitting (i.e. inverse kinematics, global optimisation, multibody kinematics optimisation)	0	0	0	0
Other (please spe	ecify)			

#### 51. Please specify the method to determine hip joint center

	Always	Sometimes	Never	I don't know
Predictive method (e.g. Bell 1990, Davis 1991, Harrington 2007, Hara 2016)	0	0	0	0
Functional calibration with specific movements (e.g. circumduction)	$\circ$	0	$\circ$	0
Functional calibration using gait trials	0	0	0	0
Ultrasound	0	0	0	0

	Always	Someti	mes	Never	I don't know	
Other imaging techniques	$\circ$	С	)	$\circ$	$\circ$	
Please specify ref 2016)	erence of the	method or of	her method	(e.g. Predict	ive: Hara et al	
2010)						
52. Please spe	cify the me	thod to det	ermine kn	ee joint ce	nter/axis	
	Always	Someti	mes	Never	I don't know	
Predictive method	0	0		0	$\circ$	
Mid-distance between epicondyles	$\circ$	0		0	$\circ$	
Chord function (Conventional Gait Model)	0	0		0	0	
Knee Alignment Device (KAD)	$\circ$	0		$\bigcirc$	$\circ$	
Functional calibration with specific movements (e.g. squatting)	0	0		0	0	
Functional calibration using gait trials (e.g. axis correction)	0	0		0	0	
Ultrasound imaging	$\circ$	0		$\circ$	$\circ$	
Please specify ref	erence of the	method or of	her method			
i3. Please spe	cify the me	thod to det	ermine an	kle joint ce	enter/axis	
Donalisti	Always	Someti	mes	Never	I don't know	
Predictive method	0	0		0	0	
Mid-distance between malleoli	0	0		0	0	
Chord function (Conventional Gait Model)	$\circ$	0		0	0	
Functional calibration with specific movements	0	0		0	0	
Functional calibration using gait trials	0	0		0	0	
Ultrasound imaging	0	0		$\circ$	$\circ$	
Other imaging techniques	$\circ$	0		0	$\circ$	
Please specify ref	erence of the	method or ot	her method			
54. Please specify the method to determine body segment inertial parameters						
	cify the me	thod to det	eriiiile bo	ay segmen	No kinetics	
	<b>cify the me</b> Always	thod to det	Never	I don't kno	No kinetics computation	

Zatsiorsky)					
Measured	$\circ$	$\circ$	$\bigcirc$	$\circ$	$\bigcirc$
Specify reference					
55. Which meth	nods do yo	ou use for EM	1G comput	ation?	
					Device not used in my
EMG	Always	Sometimes	Never	I don't know	lab
envelopes are normalised by maximal voluntary contraction	0	0	0	0	0
EMG envelopes are					
normalised by submaximal voluntary contraction	0	$\circ$	0	0	0
EMG envelopes are					
normalised by a specific task	0		0		
EMG envelopes are					
normalised by a the	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$
maximum during the					
task					
Onset are detected					
(always, sometimes,	0	0	$\circ$	0	0
never, I don't know)					
fyou use a norma eference (text, 99			ection or oth	ner methods, s	specify a
6. Which meth ou report in th			paration a	and comput	ation do
•		·			
	Ye	S	No		e not used in my lab
Event detection	C	)	$\bigcirc$		$\bigcirc$
Marker		\			
trajectories - gap filling		)	$\bigcirc$		$\bigcirc$
Marker trajectories -		)	$\bigcirc$		$\bigcirc$
smoothing					
Forceplate - smoothing	C	)	$\circ$		$\bigcirc$
EMG - filtering	C	)	0		$\bigcirc$
EMG - rectification and smoothing	C	)	$\circ$		0
EMG - normalization	C	)	$\bigcirc$		$\bigcirc$
	_		$\circ$		

Kinematic computations

Kinetic computations

Other

0

 $\bigcirc$ 

0

 $\bigcirc$ 

 $\bigcirc$ 

0

No kinetics

0

 $\bigcirc$ 

computation Never I don't know in my lab

Always Sometimes

Other, please speci	fy			
7. Does the data ecommendation		the report fo	llow the follo	wing
	Completely	Partially	I don't know	Device not used in my lab
ISB recommendations for kinematics (Wu et al., 1995, 2002, 2005)	0	0	0	0
ISB recommendations for kinetics (Derrick et al., 2019)	0	0	0	0
ISEK Standards for Reporting EMG Data	$\circ$	$\circ$	0	0
Other standards	$\circ$	$\circ$	$\circ$	$\circ$
f Other, please speci	fy			
8. During CGA, dollowing body pa				
	Always	Someti	mes	Never
Trunk	$\circ$	$\circ$		$\circ$
Spine	0	0		0
Head	$\circ$	0		$\circ$
Arms	0	0		0
Hands	$\circ$	0		$\circ$
Foot (multi- segments)	$\bigcirc$	$\circ$		$\bigcirc$
Other, please specify				
59. Which softwa	re do you use i	for the biome	echanical con	nputation?
Vicon software	e (Nexus, Workst	ation)		
☐ Motion Analys	is Corp software	(Cortex)		
	oftware (Odin)			
Visual 3D				
OpenSim				
Matlab code d	eveloped by you	r lab		
Python code d	leveloped by you	ır lab		
Matlab code a	vailable on a pub	olic repository -	Bodymech	
	vailable on a pub	olic repository -	Dumas - 3D Kir	nematics and
	ps://ch.mathworl -and-inverse-dyr		central/fileexcha	ange/58021-
Python code a (https://pycgm	vailable on a pub n2.github.io/)	olic repository -	PyCGM2	
	vailable on a pub .com/cadop/pyC		PyCGM	
Other, please	specify			
_				

	Never	Sometimes	Regularly	Often	Always
OpenSim / Biomechanical modelling	$\bigcirc$	0	$\circ$	$\circ$	0
EMG analytics like muscle synergies	$\circ$	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\circ$
Automated clinical reasoning	$\circ$	0	0	$\circ$	0
Video-based human pose estimation software (such as OpenPose)	0	0	0	0	0
Machine learning algorithms (such as DeepEvent)	0	0	0	0	0
Other	$\circ$	$\circ$	0	$\circ$	0
ease specify				_	
Qualisys sof  Moveshelf  Matlab code  Python code  Other, pleas	e developed e developed e specify	by your lab			
2. What does y	our CGA I		·		
Technical report with data collected during CGA (graphs,)		Yes		No O	
Medical report with interpretation of the technical report		0		0	
Multimedia report		0		0	
including video					
including video	more in al-	ido the feller	ing informati	on?	
including	eport incl		ing informati		
including video		ude the follow  Yes	ing informati	on?	

	Yes	No
page		
Identification of chief complaint or reason for study	$\circ$	0
Comprehensive clinical history	0	0
Documentation of past and current treatment	$\circ$	$\circ$
Description of the clinical exam	0	0
A consideration of the consistency of the patient's gait pattern, supported by data	$\circ$	$\circ$
Conditions under which data were collected (e.g. barefoot)	$\circ$	0
Patient compliance/co- operation	$\circ$	$\bigcirc$
Comments on whether data are typical for the patient	0	0
Any problems or artefacts identified	$\circ$	$\circ$
Any corrections applied during data collection and processing	$\bigcirc$	0
Functional diagnosis	$\bigcirc$	$\bigcirc$
Identification of Clinically Important Deviations/Abnormalities	$\circ$	0
Therapeutic recommendations	0	$\circ$
Staff member(s) responsible for the data acquisition	0	0
Staff member(s) responsible for the therapeutic recommendations	$\circ$	0
Signature of the staff/ designated signatory for lab	0	0
Other	0	$\circ$
Please specify		

#### 64. Does your report display the following data?

	Always	Sometimes	Never
Images of the patients at key points of the gait cycle	$\circ$	$\circ$	0
Physical exam	$\circ$	$\circ$	$\circ$
Spatio-temporal parameters as raw values	$\circ$	0	$\circ$
Spatio-temporal parameters dimensionless (At Hof, 1996)	$\circ$	$\circ$	0
Gait score - GGI -Gillette Gait Index	$\circ$	0	0
Gait score - GDI - Gait Deviation Index	$\bigcirc$	$\circ$	$\circ$
Gait score - GPS - Gait Profile Score	$\circ$	0	0
Gait score - MAP - Movement	$\circ$	$\circ$	$\bigcirc$

	Always	Sometimes	Never
Analysis Profile  3D kinematics of	0	$\circ$	0
the lower limbs  3D kinematics of the foot (multi-	0	$\circ$	$\bigcirc$
segments)  3D kinematics of	Ü	Ü	0
the pelvis 3D kinematics of	0	0	ē
the trunk	0	0	0
3D kinematics of the arms	0	0	0
3D kinematics of the head	$\bigcirc$	$\circ$	$\circ$
3D kinetics of the lower limbs	$\bigcirc$	0	$\circ$
3D ground reaction forces	$\bigcirc$	$\bigcirc$	$\bigcirc$
Only sagittal moments	$\bigcirc$	$\circ$	$\circ$
Internal joint moments	$\circ$	$\circ$	$\circ$
External joint moments	$\circ$	$\circ$	$\bigcirc$
Distal joint moments	$\circ$	$\circ$	$\circ$
Proximal joint moments	$\circ$	$\circ$	$\circ$
Sagittal power of the lower limb	$\circ$	0	$\circ$
3D powers of the lower limb	$\circ$	$\circ$	$\circ$
Normalised kinematics cycle by cycle consistency	0	0	0
Normalised kinematics - mean/SD	0	0	0
Normalised kinetics cycle by cycle consistency	0	0	0
Normalised kinetics - mean/SD	0	0	0
Kinetics normalised by body weight	0	0	0
Non- dimensional normalisation of kinetics	0	0	0
Raw EMG	$\bigcirc$	$\bigcirc$	$\circ$
Filtered EMG	$\bigcirc$	0	$\circ$
Envelop EMG	0	0	0
Normative values for each graph displayed	0	0	0
Plantar Pressure map	$\circ$	$\circ$	0
Conditions of Testing Identified (e.g. barefoot, orthotic, prosthetic, shoes, assistive device, etc.)	0	0	0
Identification of Right/Left sides	$\circ$	$\circ$	$\circ$
Identification of Gait Cycle	0	$\circ$	$\circ$

dentification of		Always	Sometimes	Never			
District of		$\circ$	$\circ$	$\circ$			
Included on Plots and Clearly Clear	Orientation of	0	0	$\circ$			
data clearly identified (representative interesting to the control of the control	Included on Plots and Clearly	0	0	0			
identification of type of processing, if appropriate  Muscles or muscle abbreviations clearly identified  Other	data clearly identified (representative trial, multiple trials, mean of multiple trials,	0	0	0			
muscle abbreviations clearly identified  Other	identification of type of processing, if	0	0	0			
65. If you report normative values these are    No normative values are reported   Collected in your lab   Data published in the literature   Age matched   Speed matched   Gender matched  66. Do you check your normal data against literature?  Yes No   If yes, references used  67. How many subjects are included in total in the normative database?  68. How do you identify gait deviations on the graphs of the report?  Yes No  Baker convention (Baker, Measuring walking - a Handbook of Clinical Gait	muscle abbreviations	0	0	0			
65. If you report normative values these are    No normative values are reported   Collected in your lab   Data published in the literature   Age matched   Speed matched   Gender matched  66. Do you check your normal data against literature?    Yes		$\bigcirc$	$\circ$	$\circ$			
No normative values are reported  Collected in your lab Data published in the literature Age matched Speed matched Gender matched  66. Do you check your normal data against literature?  Yes No If yes, references used  67. How many subjects are included in total in the normative database?  68. How do you identify gait deviations on the graphs of the report?  Yes No  Baker convention (Baker, Measuring walking - a Handbook of Clinical Gait	Please specify						
No normative values are reported  Collected in your lab Data published in the literature Age matched Speed matched Gender matched  66. Do you check your normal data against literature?  Yes No If yes, references used  67. How many subjects are included in total in the normative database?  68. How do you identify gait deviations on the graphs of the report?  Yes No  Baker convention (Baker, Measuring walking - a Handbook of Clinical Gait							
66. Do you check your normal data against literature?  Yes  No  If yes, references used  67. How many subjects are included in total in the normative database?  0 1000  68. How do you identify gait deviations on the graphs of the report?  Yes  No  Baker convention (Baker, Measuring walking - a Handbook of Clinical Gait	No normative values are reported  Collected in your lab  Data published in the literature  Age matched						
Yes No  If yes, references used  67. How many subjects are included in total in the normative database?  0 1000  68. How do you identify gait deviations on the graphs of the report?  Yes No  Baker convention (Baker, Measuring walking - a Handbook of Clinical Gait	Gender match	hed					
of the many subjects are included in total in the normative database?  1000  68. How do you identify gait deviations on the graphs of the report?  Yes  No  Baker  convention  (Baker,  Measuring  walking - a  Handbook of  Clinical Gait	66. Do you check	your normal data	a against literature	9?			
67. How many subjects are included in total in the normative database?  68. How do you identify gait deviations on the graphs of the report?  Yes  No  Baker convention (Baker, Measuring walking - a Handbook of Clinical Gait	\	⁄es	١	No			
67. How many subjects are included in total in the normative database?  0 1000  68. How do you identify gait deviations on the graphs of the report?  Yes No  Baker convention (Baker, Measuring walking - a Handbook of Clinical Gait	(	$\circ$	(				
68. How do you identify gait deviations on the graphs of the report?  Yes No  Baker convention (Baker, Measuring walking - a Handbook of Clinical Gait	If yes, references use	ed					
68. How do you identify gait deviations on the graphs of the report?  Yes No  Baker convention (Baker, Measuring walking - a Handbook of Clinical Gait							
68. How do you identify gait deviations on the graphs of the report?  Yes No  Baker convention (Baker, Measuring walking - a Handbook of Clinical Gait							
68. How do you identify gait deviations on the graphs of the report?  Yes  No  Baker convention (Baker, Measuring walking - a Handbook of Clinical Gait		bjects are include	ed in total in the no	ormative			
68. How do you identify gait deviations on the graphs of the report?  Yes  No  Baker convention (Baker, Measuring walking - a Handbook of Clinical Gait							
Yes No  Baker convention (Baker, Measuring walking - a Handbook of Clinical Gait	0		1000				
Yes No  Baker convention (Baker, Measuring walking - a Handbook of Clinical Gait	<u> </u>		)				
Yes No  Baker convention (Baker, Measuring walking - a Handbook of Clinical Gait							
Baker convention (Baker, Measuring walking - a Handbook of Clinical Gait	68. How do you i	dentify gait devia	tions on the graph	s of the report?			
convention (Baker, Measuring walking - a Handbook of Clinical Gait		Yes		No			
	convention (Baker, Measuring walking - a Handbook of Clinical Gait	0		0			

	Yes		No
Comprehensive description	$\circ$		$\circ$
Other	$\circ$		0
Please specify			
69. To whom is	your CGA report d	elivered?	
	Always	Sometimes	Never
To the referring professional	$\circ$	$\circ$	0
To the patient	$\circ$	$\circ$	$\circ$
Other	$\bigcirc$	$\circ$	0
Please specify			
	cal data do you use ng or follow up asse		ith 3D GA for
	Always	Sometimes	Never
Specific functional standardized tools	0	0	0
ROM assessment	$\bigcirc$	$\bigcirc$	$\bigcirc$
Strength assessment	0	0	0
Selective motor control assessment	0	$\circ$	0
Spasticity assessment	0	$\circ$	0
Morphological deformities measurements	$\circ$	$\circ$	0
Neurological examination	$\circ$	$\circ$	$\circ$
Medical imaging	$\circ$	$\circ$	$\circ$
Medical history	0	0	0
Other	$\bigcirc$	$\bigcirc$	$\bigcirc$
Please specify			
71. What inforn	nation do you provi	de for the patients	s?
	Yes	·	No
An information sheet sent to patients referred for gait analysis	0		0
A satisfaction feedback survey	0		0
72. CGA raw da	ata are stored		
	Yes		No
On a local computer	0		0
On a server	0		0

	Yes	No
On a server with frequent backups	0	0
On the Patient File System (e.g. similar to PACS for imagery)	0	0
73. CGA proces	ssed data are stored	
	Yes	No
On a local computer	0	$\circ$
On a server	0	0
On a server with frequent backups	0	0
On the Patient File System (e.g. similar to PACS for imagery)	0	0
74. CGA report	s are stored	
	Yes	No
On a local computer	0	0
On a server	$\circ$	$\circ$
On a server with frequent backups	0	0
On the Patient File System (e.g. similar to PACS for imagery)	0	0
75. What is the	duration of the storage? Pleas	e enter a number of
Raw data		
Processed data		
Reports		
76. Comments	:	
	PREV DONE	
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	SurveyMonkey	*

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