# ESMAC survey

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1	Intr	oduction	5			
<b>2</b>	Gen	eneral Information and Management				
	2.1	Respondents countries Q2 $\ldots \ldots \ldots$	5			
	2.2	Type of institution Q4 $\ldots$	5			
	2.3	3DGA patient throughput Q5	6			
	2.4	Video patient throughput Q6 $\ldots$	7			
	2.5	Main age of patients Q7	8			
	2.6	Main categories, neurological Q8 $\ldots \ldots \ldots$	8			
	2.7	Main categories, non-neurological Q9	9			
	2.8	Main population, neurological Q10	9			
	2.9	Main population, non-neurological Q11	10			
	2.10	Reason to use CGA Q12	10			
	2.11	Cost of CGA Q13, per type of institutions	11			
	2.12	Cost of CGA Q13, per countries	11			
	2.13	Use of published guidelines Q14	12			
	2.14	Societies and people Q15	12			
	2.15	License to conduct CGA Q16	13			
	2.16	People and disciplines Q17	14			
	2.17	Head of lab CGA Q18	14			
	2.18	Gait lab staff involved in the task of Q19	15			
	2.19	Frequency of training Q20	15			
	2.20	Testing consistency Q21	15			
	2.21	Time to conduct CGA Q22	16			
3	Faci	Facility and Instrumentation				
	3.1	Physical dimensions of the lab Q23	16			
	3.2	Facilities of the lab Q24	17			
	3.3	CGA equipment Q25	17			
	3.4	CE medical marking Q26	18			
	3.5	Measure Frequency of device Q27	18			
	3.6	Synchronization of devices Q28	18			
	3.7	Data collected Q29	19			
	3.8	Additional measurements to CGA Q30	20			
	3.9	Minimal number of gait cycles Q31	21			
	3.10	External technical calibration of systems Q32	21			

	3.11	External quality control of systems Q33	22
	3.12	CGA documentation Q34 $\ldots$	22
	3.13	Are your documents? Q35 $\ldots$	24
	3.14	Appointed auditors Q36	24
4	CI:		25
4			
	4.1		
	4.2		
	4.3		
	4.4		
	4.5		
	4.6		
	4.7		
	4.8		
	4.9	Smoothing - marker trajectories Q44	30
		Smoothing - forceplate signals Q45	31
	4.11	EMG - filtering Q46	32
	4.12	EMG - software Q47	32
			attation Q34       22         ments? Q35       24         litors Q36       24         ysis, data acquisition       25         ent Q37       25         acquisition Q38       25         quisition Q39       25         · Q40       26         ion Q41       26         on - Method Q42a       27         n - Software Q42b       28         trajectories Q43       29         arker trajectories Q43       29         arker trajectories Q44       30         orceplate signals Q45       31         g Q46       32         re Q47       32         ysis, data processing       33         or fait model Q48       33         or markers? Q49b       34         Q49c       34         Q50a       35         er estimation Q51       35         ster sQ54       37         ation Q55       37         hods Q56       38         ions and standards Q57       38
5		nical gait analysis, data processing	
5			33
5	Clin	nical gait analysis, data processing Customisation of gait model Q48	<b>33</b> 33
5	Clin 5.1	<b>hical gait analysis, data processing</b> Customisation of gait model Q48	<b>33</b> 33 34
5	<b>Clin</b> 5.1 5.2	nical gait analysis, data processing         Customisation of gait model Q48         CGM, wands or markers?         Q49b         CGM, KAD?         Q49c	<ul> <li>33</li> <li>33</li> <li>34</li> <li>34</li> </ul>
5	Clin 5.1 5.2 5.3	nical gait analysis, data processing         Customisation of gait model Q48         CGM, wands or markers? Q49b         CGM, KAD? Q49c         Models used Q50a	<ul> <li>33</li> <li>33</li> <li>34</li> <li>34</li> <li>35</li> </ul>
5	Clin 5.1 5.2 5.3 5.4 5.5	nical gait analysis, data processing         Customisation of gait model Q48         CGM, wands or markers? Q49b         CGM, KAD? Q49c         Models used Q50a         Hip joint center estimation Q51	<ul> <li>33</li> <li>34</li> <li>34</li> <li>35</li> <li>35</li> </ul>
5	Clin 5.1 5.2 5.3 5.4	hical gait analysis, data processing Customisation of gait model Q48	<ul> <li>33</li> <li>34</li> <li>34</li> <li>35</li> <li>35</li> <li>36</li> </ul>
5	Clin 5.1 5.2 5.3 5.4 5.5 5.6 5.7	Anical gait analysis, data processing Customisation of gait model Q48	<ul> <li>33</li> <li>34</li> <li>34</li> <li>35</li> <li>35</li> <li>36</li> <li>36</li> </ul>
5	Clin 5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8	hical gait analysis, data processing Customisation of gait model Q48 CGM, wands or markers? Q49b CGM, KAD? Q49c Models used Q50a Hip joint center estimation Q51 Knee joint center/axis Q52 Ankle joint center/axis Q53 Inertial parameters Q54	<ul> <li>33</li> <li>33</li> <li>34</li> <li>34</li> <li>35</li> <li>35</li> <li>36</li> <li>36</li> <li>37</li> </ul>
5	Clin 5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.9	Anical gait analysis, data processing         Customisation of gait model Q48         CGM, wands or markers? Q49b         CGM, KAD? Q49c         Models used Q50a         Hip joint center estimation Q51         Knee joint center/axis Q52         Ankle joint center/axis Q53         Inertial parameters Q54         EMG computation Q55	<ul> <li>33</li> <li>33</li> <li>34</li> <li>34</li> <li>35</li> <li>36</li> <li>36</li> <li>37</li> <li>37</li> </ul>
5	Clin 5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.9 5.10	<b>Aical gait analysis, data processing</b> Customisation of gait model Q48         CGM, wands or markers? Q49b         CGM, KAD? Q49c         Models used Q50a         Hip joint center estimation Q51         Knee joint center/axis Q52         Ankle joint center/axis Q53         Inertial parameters Q54         EMG computation Q55         Reported methods Q56	<ul> <li>33</li> <li>33</li> <li>34</li> <li>34</li> <li>35</li> <li>36</li> <li>36</li> <li>37</li> <li>38</li> </ul>
5	Clin 5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.9 5.10 5.11	Anical gait analysis, data processing         Customisation of gait model Q48         CGM, wands or markers? Q49b         CGM, KAD? Q49c         Models used Q50a         Models used Q50a         Hip joint center estimation Q51         Knee joint center/axis Q52         Ankle joint center/axis Q53         Inertial parameters Q54         EMG computation Q55         Reported methods Q56         Recommendations and standards Q57	<ul> <li>33</li> <li>33</li> <li>34</li> <li>34</li> <li>35</li> <li>35</li> <li>36</li> <li>36</li> <li>37</li> <li>38</li> <li>38</li> </ul>
5	Clin 5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.9 5.10 5.11 5.12	nical gait analysis, data processing         Customisation of gait model Q48         CGM, wands or markers? Q49b         CGM, KAD? Q49c         Models used Q50a         Models used Q50a         Hip joint center estimation Q51         Knee joint center/axis Q52         Ankle joint center/axis Q53         Inertial parameters Q54         EMG computation Q55         Reported methods Q56         Recommendations and standards Q57         Upper body Q58	<ul> <li>33</li> <li>33</li> <li>34</li> <li>34</li> <li>35</li> <li>35</li> <li>36</li> <li>36</li> <li>37</li> <li>38</li> <li>38</li> <li>39</li> </ul>
5	Clin 5.1 5.2 5.3 5.4 5.5 5.6 5.7 5.8 5.9 5.10 5.11 5.12 5.13	Anical gait analysis, data processing         Customisation of gait model Q48         CGM, wands or markers? Q49b         CGM, KAD? Q49c         Models used Q50a         Models used Q50a         Hip joint center estimation Q51         Knee joint center/axis Q52         Ankle joint center/axis Q53         Inertial parameters Q54         EMG computation Q55         Reported methods Q56         Recommendations and standards Q57	<ul> <li>33</li> <li>33</li> <li>34</li> <li>34</li> <li>35</li> <li>35</li> <li>36</li> <li>36</li> <li>37</li> <li>38</li> <li>38</li> </ul>

6	6 Clinical gait analysis, data reporting					
	6.1	Software reporting Q61	40			
	6.2	CGA reporting - content Q62 $\ldots$	41			
	6.3	CGA reporting - information Q63	41			
	6.4	CGA reporting - visualization Q64 $\ldots$	42			
	6.5	CGA reporting - normative values $Q65 \dots \dots$	43			
	6.6	Normative data - check Q66	44			
	6.7	Normative data - amount Q67	44			
	6.8	Identify gait deviations Q68	45			
	6.9	CGA reporting - to whom Q69 $\ldots$	46			
	6.10	Data for decision making Q70	46			
	6.11	Information to patients Q71	47			
	6.12	Storage - raw data Q72	47			
	6.13	Storage - processed data Q73	47			
	6.14	Storage - report Q74	48			
	6.15	Storage - duration Q75	48			

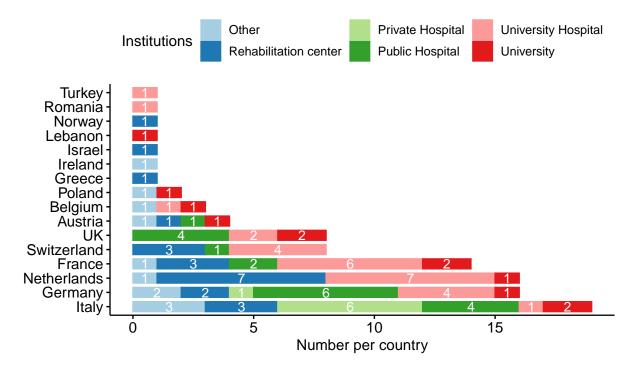
# 1 Introduction

This document summarises the results of the survey which was conducted by ESMAC. The html page was generated with R markdown from one Excel document.

# 2 General Information and Management

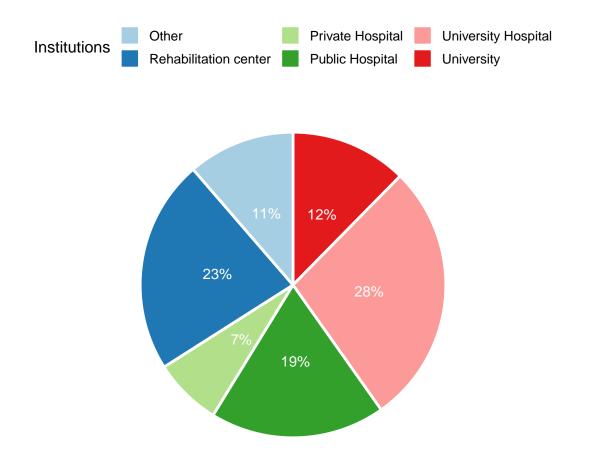
#### 2.1 Respondents countries Q2

The countries of origin of the respondents. Additional grouping depending on the type of institutions.



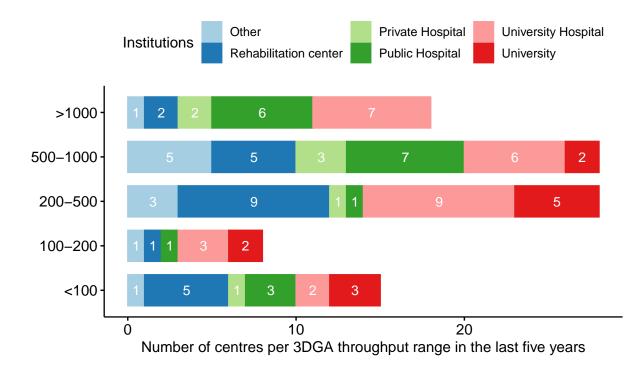
#### 2.2 Type of institution Q4

The type of institutions of the respondents.



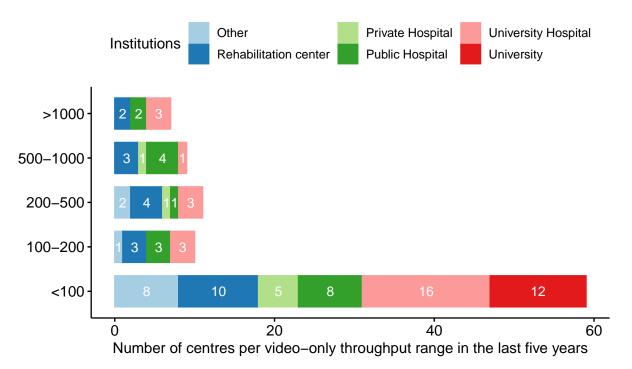
# 2.3 3DGA patient throughput Q5

The subjects or patients throughput for each type of institutions. This is for instrumented (i.e. 3DGA) gait analysis in the last five years.



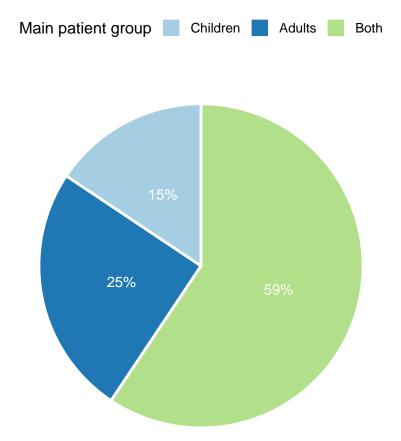
# 2.4 Video patient throughput Q6

The subjects or patients throughput for each type of institutions. This is for video only assessment in the last five years.



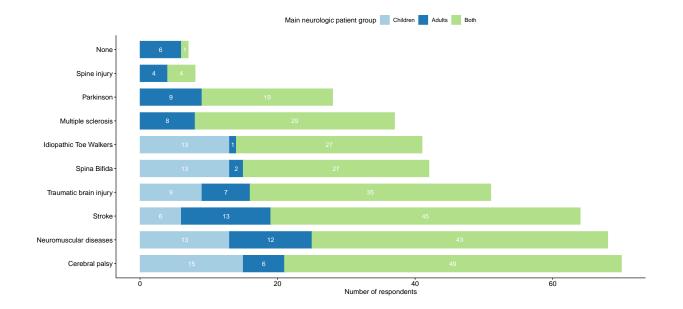
# 2.5 Main age of patients Q7

The main age categories of subjects or patients seen by the respondents (overall).



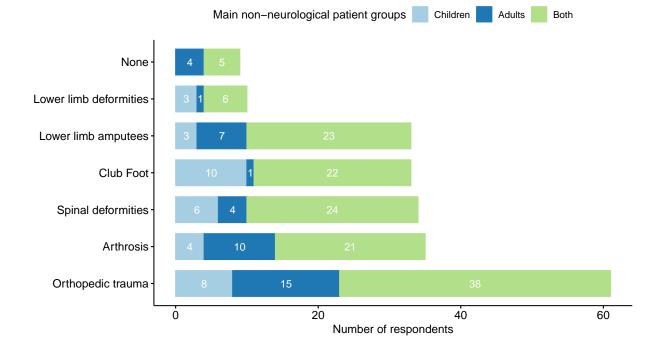
2.6 Main categories, neurological Q8

The main categories of patients with a neurological diagnosis (multiple choices possible).



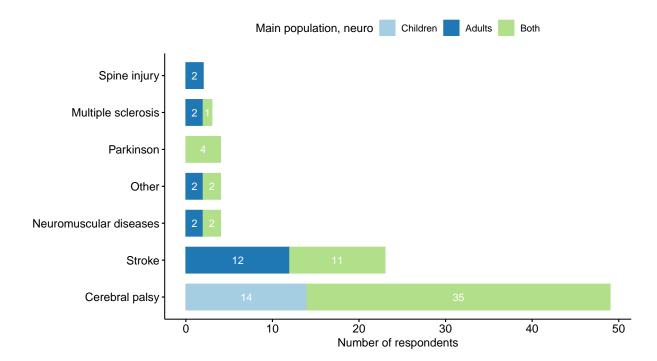
# 2.7 Main categories, non-neurological Q9

The main categories of patients with a non-neurological diagnosis (multiple choices possible).



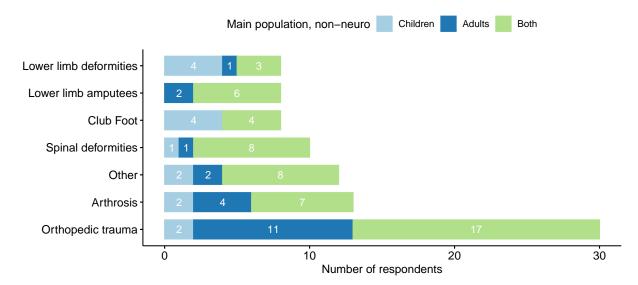
# 2.8 Main population, neurological Q10

Main categories, but only one choice of diagnosis (neuro) possible.



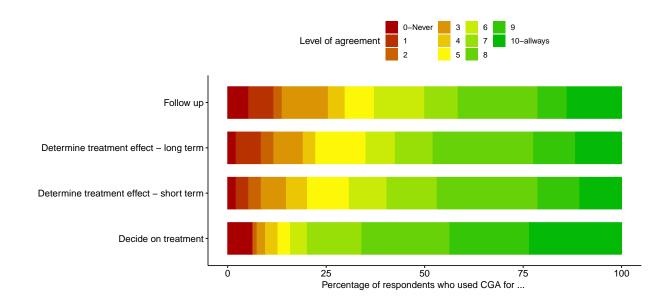
# 2.9 Main population, non-neurological Q11

Main categories, but only one choice of diagnosis (non-neuro) possible.

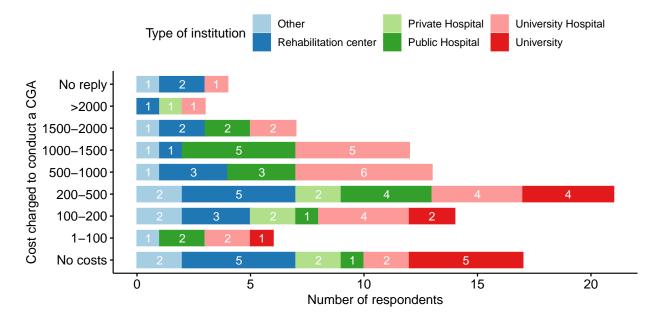


# 2.10 Reason to use CGA Q12

Level of agreement of the respondents with the use of 3DGA for the following four reasons to conduct a gait analysis.



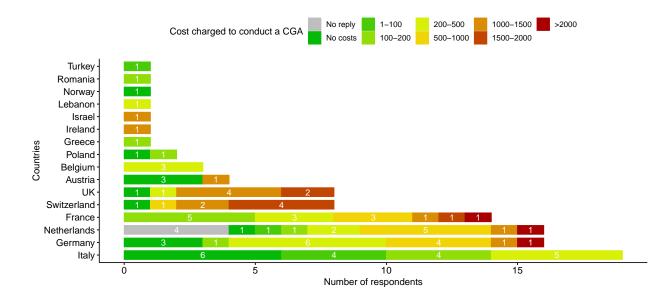
# 2.11 Cost of CGA Q13, per type of institutions



Approximate cost charged for 3DGA, sub-grouped per type of institutions.

# 2.12 Cost of CGA Q13, per countries

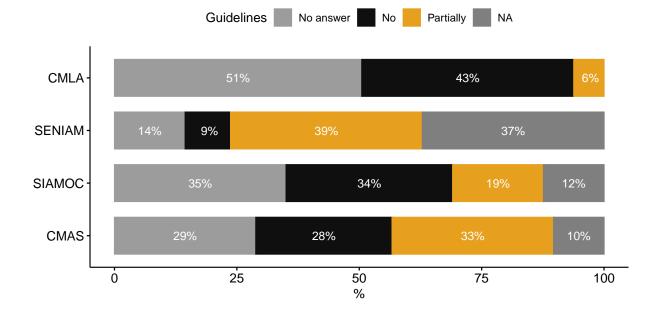
Approximate cost charged for 3DGA, sub-grouped per country.



#### 2.13 Use of published guidelines Q14

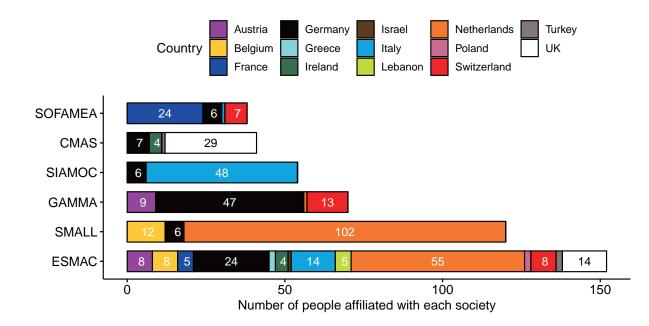
Do the respondents observe existing published guidelines or accreditation process. The four guidelines were:

- CMLA: Commission for Motion Laboratory Accreditation (USA)
- SENIAM: Surface EMG for non-invasive assessment of muscles (EU)
- SIAMOC: Position paper on gait analysis in clinical practice (Italy)
- CMAS: Clinical Movement Analysis Society (UK)



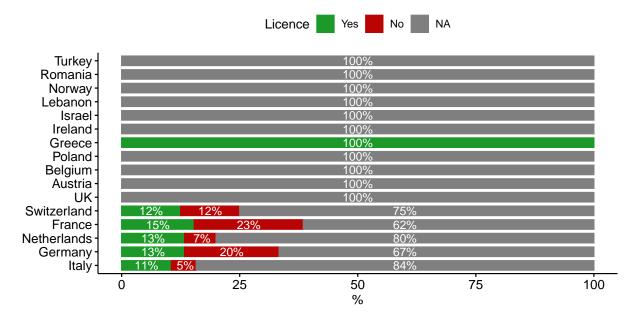
#### 2.14 Societies and people Q15

Country of work of the persons in the laboratory and the scientific societies there are affiliated.



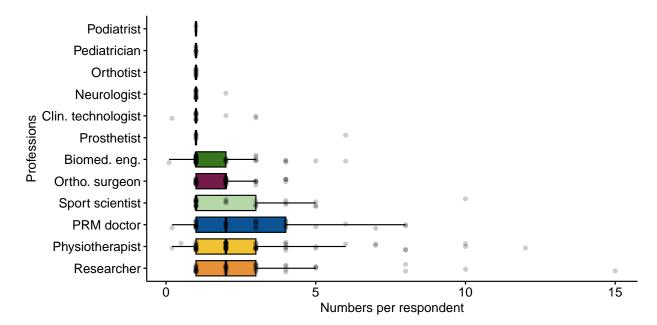
# 2.15 License to conduct CGA Q16

Is there a need for a special professional license to conduct 3DGA in the countries of the respondents

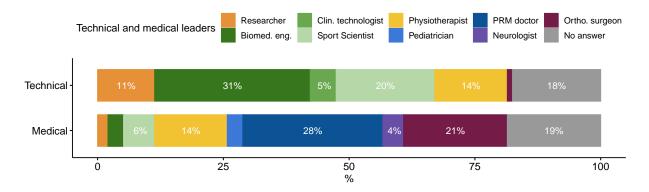


13

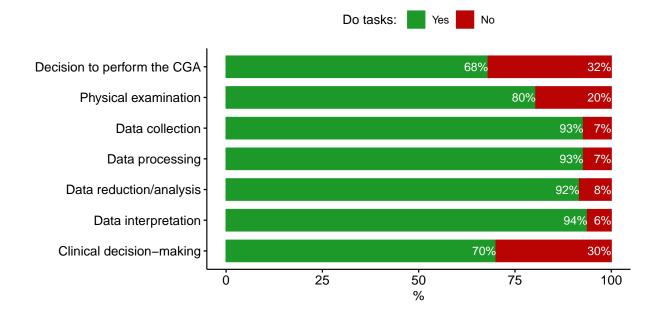
# 2.16 People and disciplines Q17



# 2.17 Head of lab CGA Q18

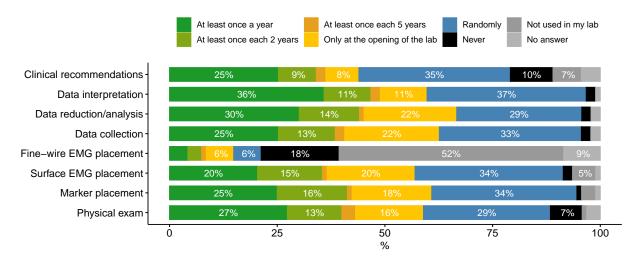


#### 2.18 Gait lab staff involved in the task of Q19



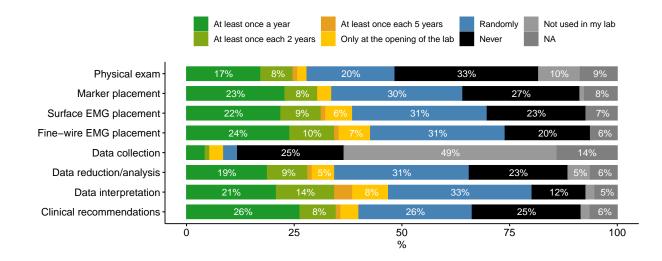
# 2.19 Frequency of training Q20

How often do staff receive training in the following tasks?



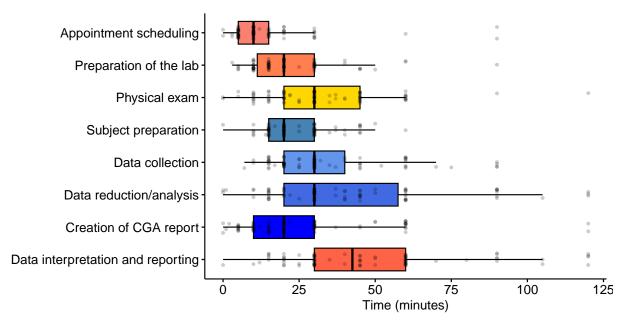
# 2.20 Testing consistency Q21

How often do you test within and between consistency of the personnel for the following tasks?



#### 2.21 Time to conduct CGA Q22

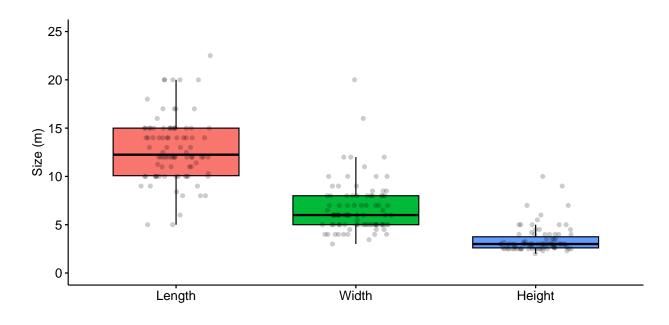
What time (in minutes) allocation do you allow for the following tasks related to the CGA?



# **3** Facility and Instrumentation

#### 3.1 Physical dimensions of the lab Q23

What are the physical dimensions of your gait lab? Size of room (in metres)



#### 3.2 Facilities of the lab Q24

Do your gait lab facilities include the following?

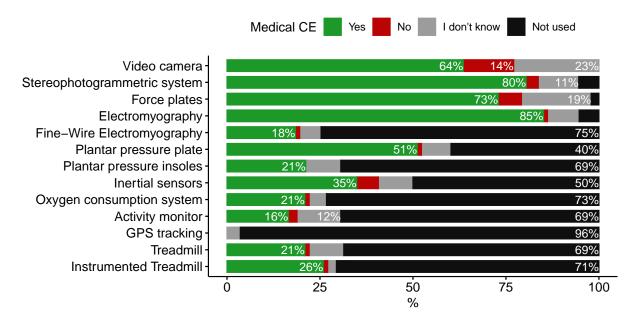


#### 3.3 CGA equipment Q25

Which equipment do you use for CGA and how much of each device do you use in your lab? Please type 0 if none. (The answers to this question were text only and no graphics were created.)

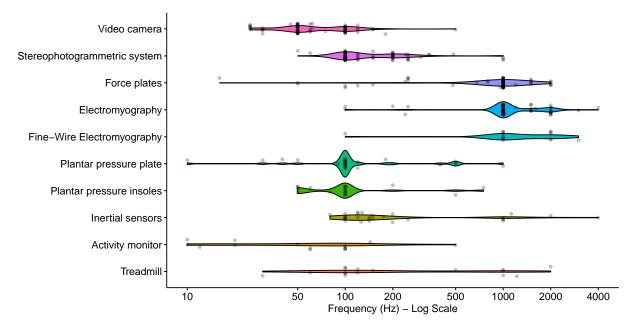
### 3.4 CE medical marking Q26

Which equipment used in your lab for CGA has a medical CE marking?



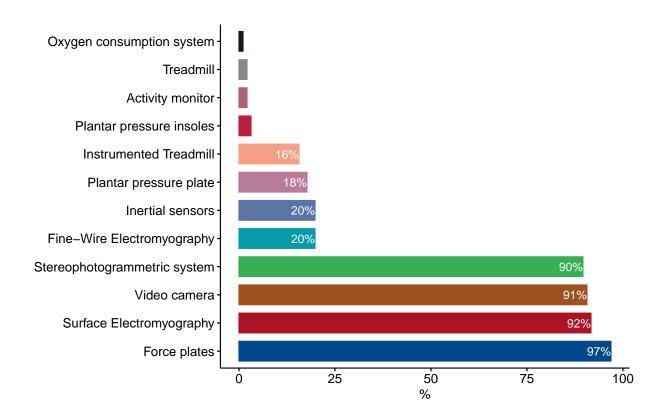
#### 3.5 Measure Frequency of device Q27

What is the measurement frequency in Hertz of acquisition of the equipment that you use in your lab for CGA? Please type 0 if not used in my lab.



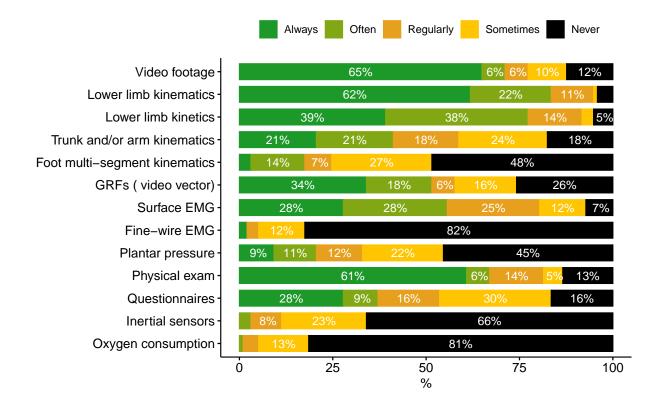
#### 3.6 Synchronization of devices Q28

Which of the following devices of your lab are synchronized to each other?



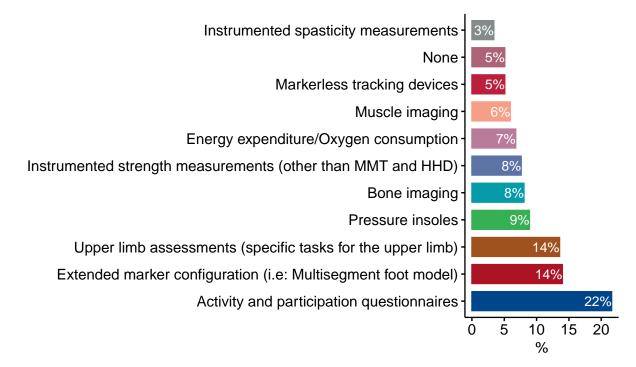
# 3.7 Data collected Q29

How often do you collect the following datasets during CGA?



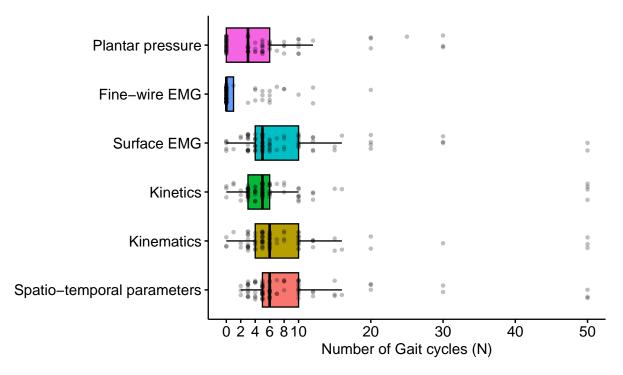
### 3.8 Additional measurements to CGA Q30

Do you use additional measurements on top of the standard CGA for specific treatments and/or pathologies? If so, which?



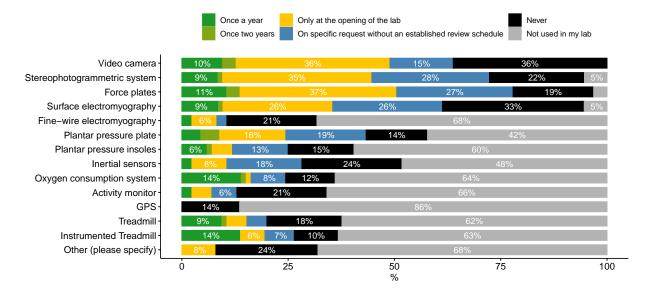
#### 3.9 Minimal number of gait cycles Q31

What is the minimal number of gait cycles that you consider it necessary to collect to satisfactorily interpret CGA for (please type 0 if none)?



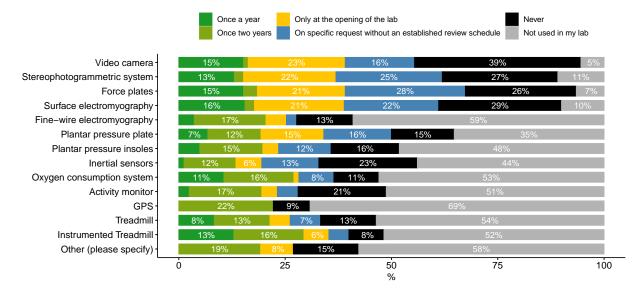
#### 3.10 External technical calibration of systems Q32

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



# 3.11 External quality control of systems Q33

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



# 3.12 CGA documentation Q34

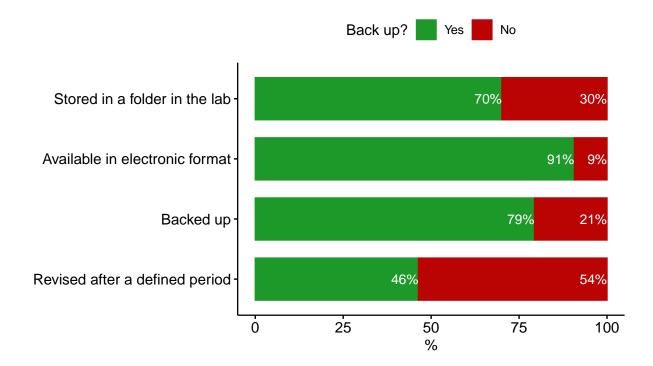
Do you have documentation (written or electronic) in your CGA including the following?

		62%	22%	16%
		<mark>41%</mark>	49%	<mark>%</mark> 9%
		60%		<b>35%</b> 5%
		56%	36	<mark>%</mark> 8%
	32%		le l	6 <mark>2%</mark> 6%
	26%		66	<mark>%</mark> 8%
			86%	<mark>9%</mark> 5%
			79%	<b>15%</b> 5%
			86% <mark>6</mark>	<mark>%</mark> 8%
			80% 11	<mark>%</mark> 8%
			78% 12%	<mark>%</mark> 9%
			81% 8%	10%
			74% 15%	10%
	28%	14%		58%
			72% 20	
			75%	1 <mark>9%</mark> 6%
				2 <mark>1%</mark> 6%
				<mark>4%</mark> 7%
		58%	32%	
		53%	36%	11%
		51%		<b>45%</b> 4%
		63%		<mark>31%</mark> 6%
		65%		<mark>8%</mark> 7%
		41%	37%	22%
		55%	33%	12%
		61%	24%	15%
		54%	31%	15%
		57%	29%	14%
			<mark>7%</mark> 20%	13%
			7% 21%	12%
	32%	30%		38%
		)% 	43%	18%
		51%	38%	11%
			<b>71%</b> 16%	12%
			68% 24	
		41%	49%	
		59%		<mark>35%</mark> 6%
		63%		<mark>31%</mark> 6%
				2 <mark>2%</mark> 6%
		54%	379	
				0,0
)	25	50	75	10

Staff - List -Staff – Training Equipement Installation Equipement Quality Consistency - methods Consistency - Limits Calibration Equipement working Marker placement Marker attachment EMG Skin EMG Placement EMG attachment IMU Tasks to collect Instructions for patients n trials/cycles n cycles on forceplates Check marker trajectories Check EMG Validity trial Event detection Spatio-temporal data 2D kinematics data Marker reconstruction Marker labelling Marker filtering EMG processing 3D Kinematics data 3D Kinetics data Plantar Pressure data **Biomechanical model** Data Quality **Physical Examination** Reporting Interpretation Cleaning equipment Data storage Filenames and format

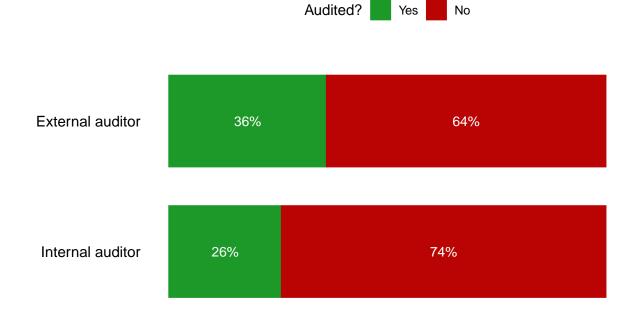
Safety Procedures -

### 3.13 Are your documents...? Q35



# 3.14 Appointed auditors Q36

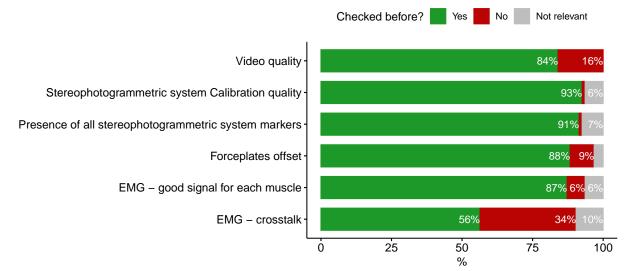
In order to review your documents and your practice, does your lab have appointed auditors?



# 4 Clinical gait analysis, data acquisition

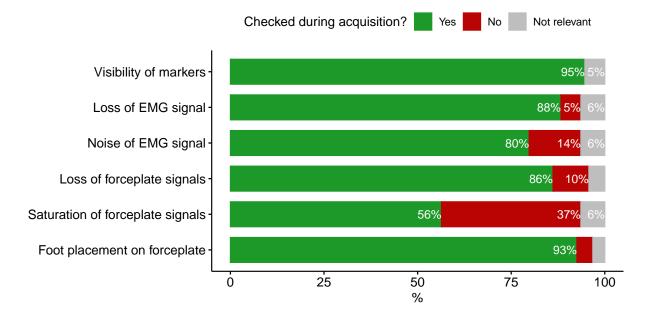
#### 4.1 Check equipment Q37

Which equipment is checked before data acquisition?



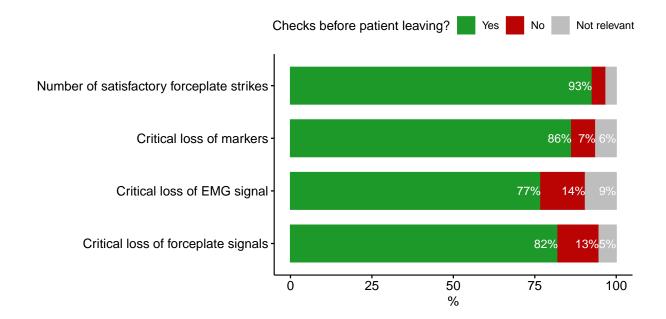
#### 4.2 Check during acquisition Q38

What do you check during data acquisition?



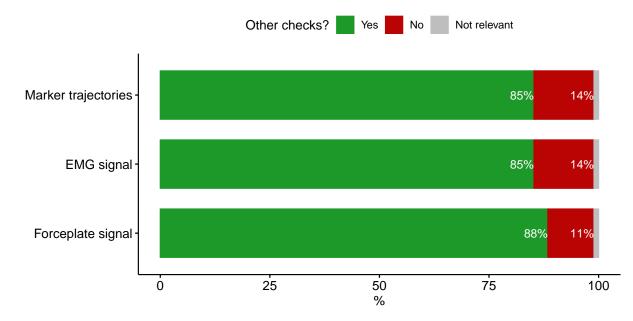
#### 4.3 Check after acquisition Q39

What do you check before the patient leaves the lab?



# 4.4 Checks - other Q40

Do you perform other checks after data acquisition?

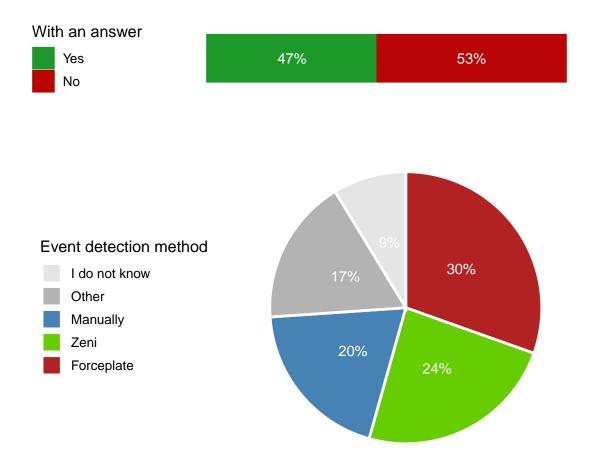


# 4.5 Data preparation Q41

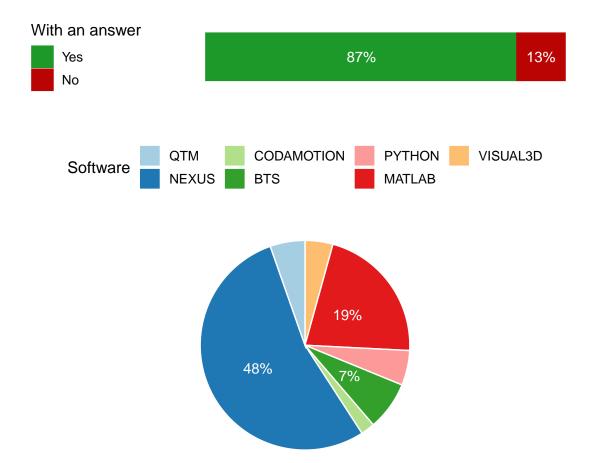
Do you do these steps for data preparation?

	Al	ways S	ometimes	Never I	do not know	Not relevant
Event detection with forceplates and autocorrelation		43%		31%	17	%
Event detection with marker trajectories	2	27%	25%		27% 8	% 13%
Event detection performed manually -		38%		5	52%	5%
Event detection checked manually-			68%		27	%
Gap filling marker trajectories			67%		22%	6%
Smoothing marker trajectories -			65%		17%	7% 6%
Smoothing forceplate signals			59%	1	18%	10%
Filtering EMG signals -		77%			10	<mark>% 6%</mark> 5%
Rectification and smoothing to obtain EMG envelope -		49%	/ 0	16%	21%	7% 7%
L	0	25		50 %	75	10

# 4.6 Event detection - Method Q42a



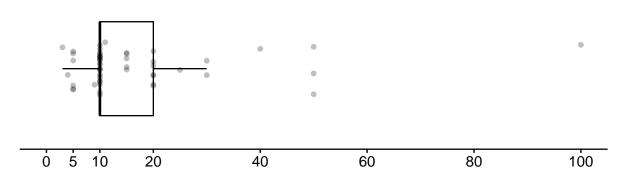
# 4.7 Event detection - Software Q42b



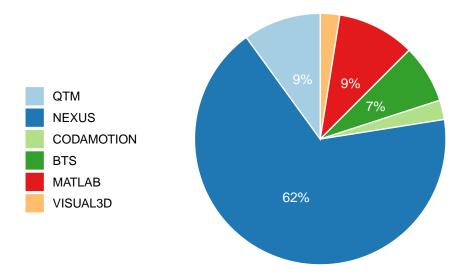
# 4.8 Filling gaps in trajectories Q43

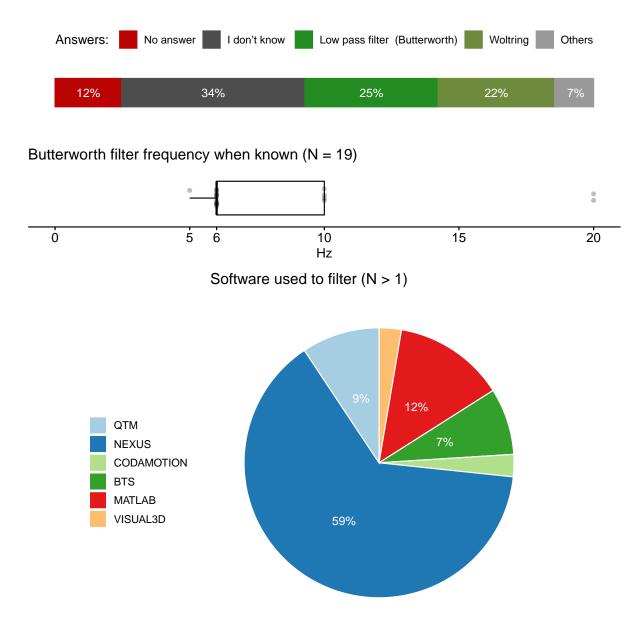
With an answer	A gap size (below)	Depend	ds I don't know	No answer
	54%	5%	30%	11%

# Gap size in number of frames



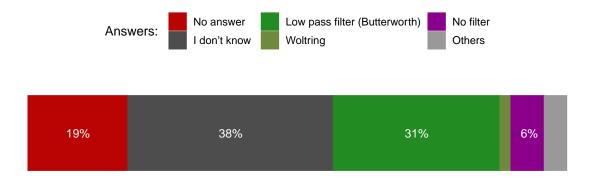
Software used to fill the gap (N>1)



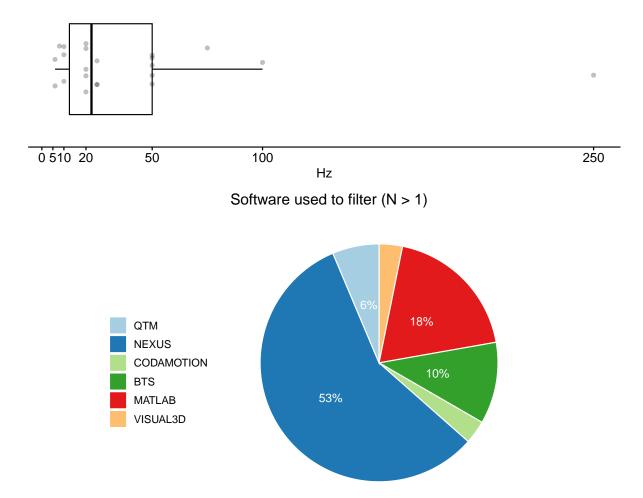


# 4.9 Smoothing - marker trajectories Q44

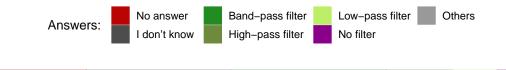
# 4.10 Smoothing - forceplate signals Q45



# Butterworth filter frequency when entered (N = 22)

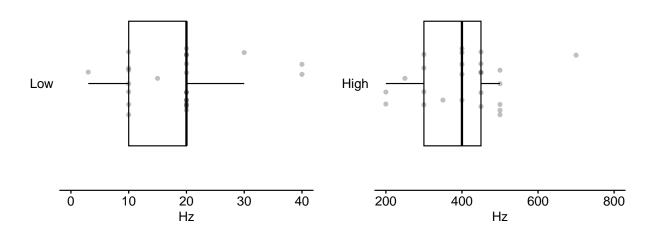


# 4.11 EMG - filtering Q46



18%	27%	29%	12%	8%	
					 _

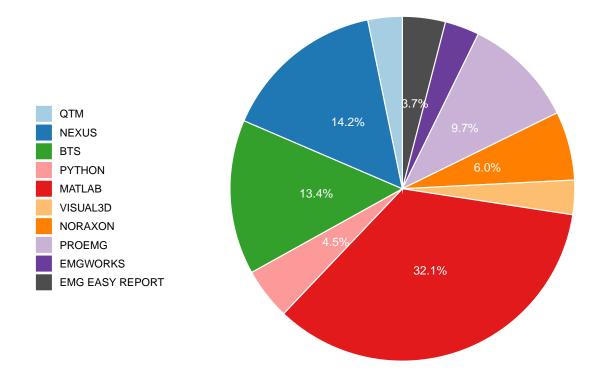
Band-pass frequencies when entered (N = 50)



# 4.12 EMG - software Q47

Software to process EMG (filtering, rectification, and smoothing)

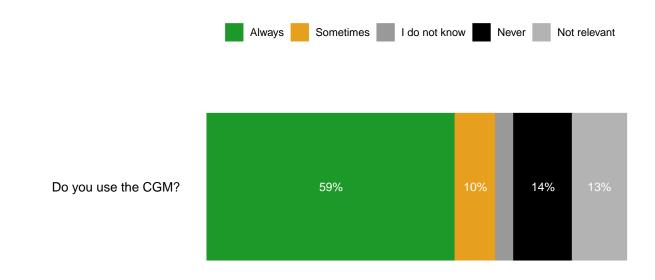
Software to process EMG (filtering, rectification, and smoothing)



# 5 Clinical gait analysis, data processing

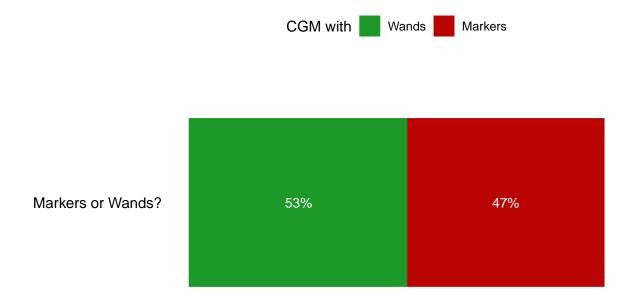
# 5.1 Customisation of gait model Q48

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



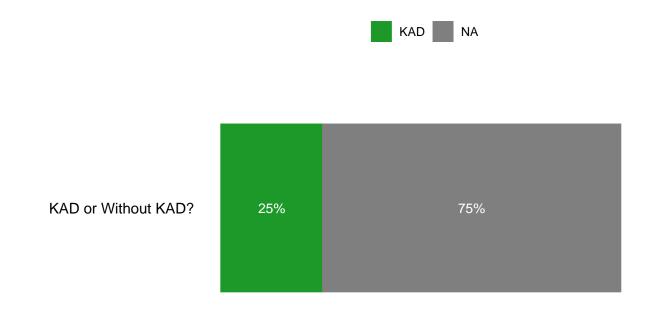
# 5.2 CGM, wands or markers? Q49b

If you use the CGM, do you use wands or markers for thigh and shank?



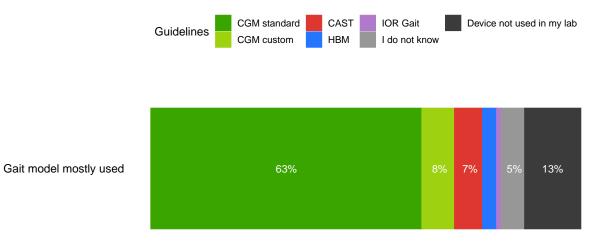
#### 5.3 CGM, KAD? Q49c

If you use the CGM, do you use the KAD?



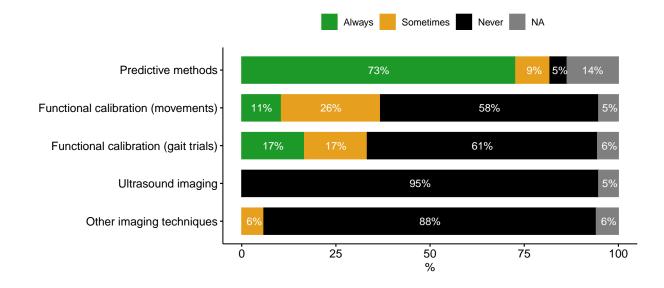
### 5.4 Models used Q50a

Modified analysis - Most used model for kinematics and kinetics?



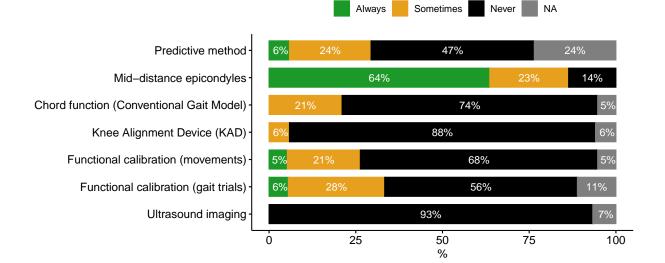
# 5.5 Hip joint center estimation Q51

Please specify the method to determine hip joint center?



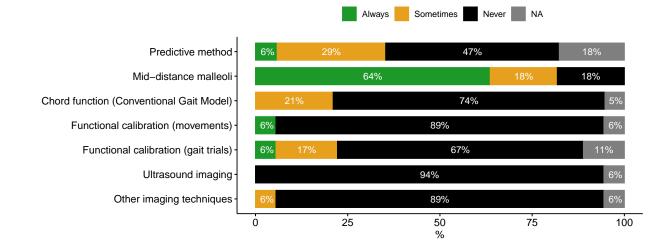
#### 5.6 Knee joint center/axis Q52

Please specify the method to determine knee joint center/axis?



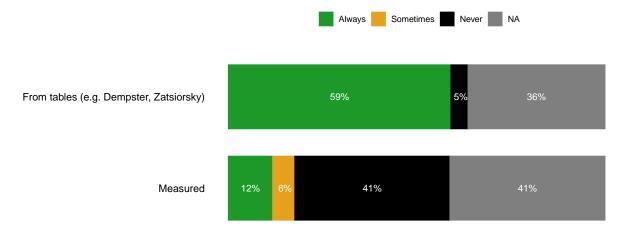
# 5.7 Ankle joint center/axis Q53

Please specify the method to determine ankle joint center/axis?



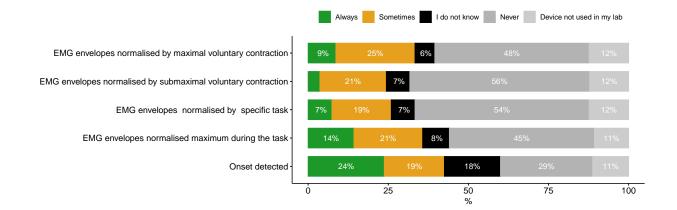
## 5.8 Inertial parameters Q54

Please specify the method to determine body segment inertial parameters?



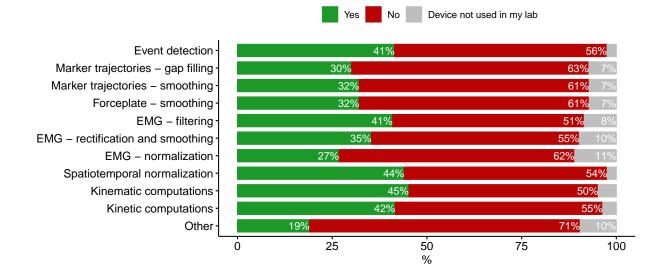
## 5.9 EMG computation Q55

Which methods do you use for EMG computation?



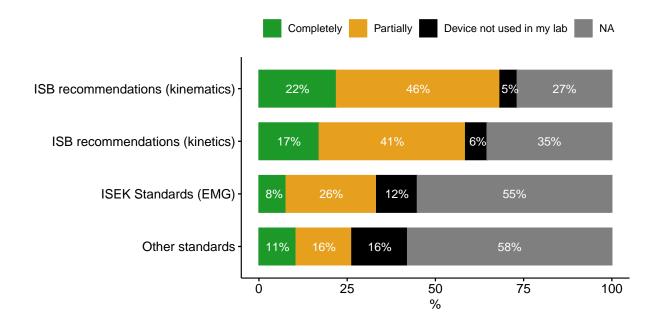
## 5.10 Reported methods Q56

Which methods used for data preparation and computation do you report in the technical report?



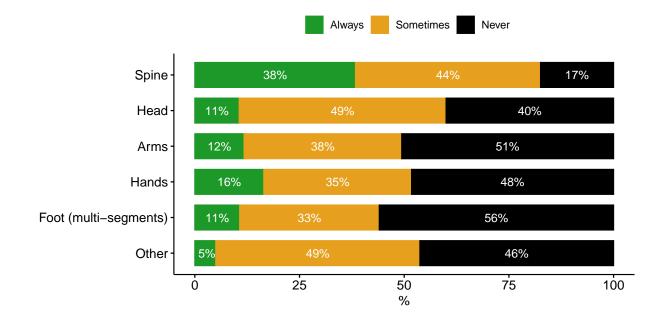
## 5.11 Recommendations and standards Q57

Does the data presented in the report follow the following recommendations/standards?



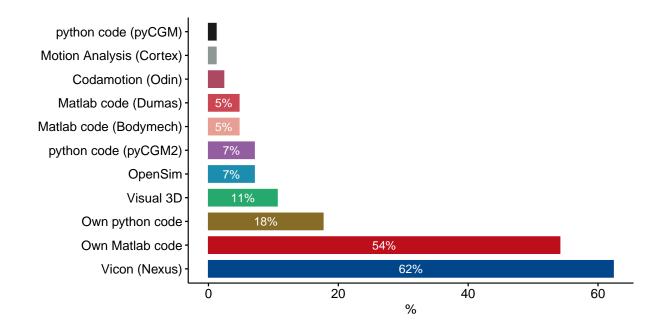
# 5.12 Upper body Q58

During CGA, do you perform the kinematics acquisition of the following body parts'on top of the lower limb and pelvis?



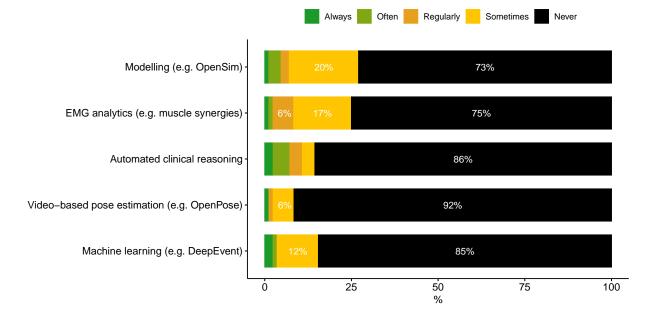
# 5.13 Software biomechanical computation Q59

Which software do you use for any of the biomechanical computation?



# 5.14 Advanced methodologies Q60

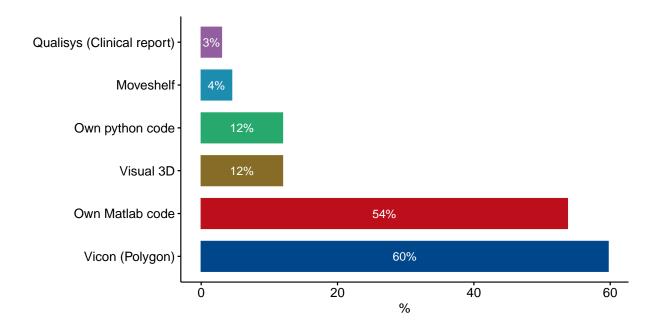
Do you use any of the below methodologies as part of your CGA and how often?



# 6 Clinical gait analysis, data reporting

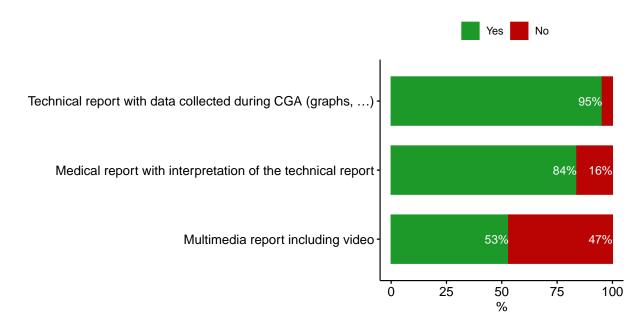
## 6.1 Software reporting Q61

Which software do you use to prepare the technical report?



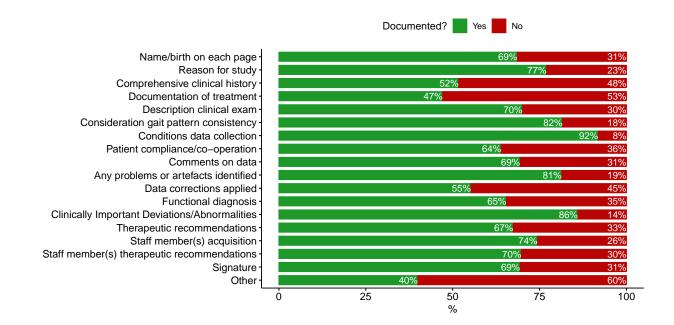
## 6.2 CGA reporting - content Q62

What does your CGA report include?



## 6.3 CGA reporting - information Q63

Does your report include the following information?



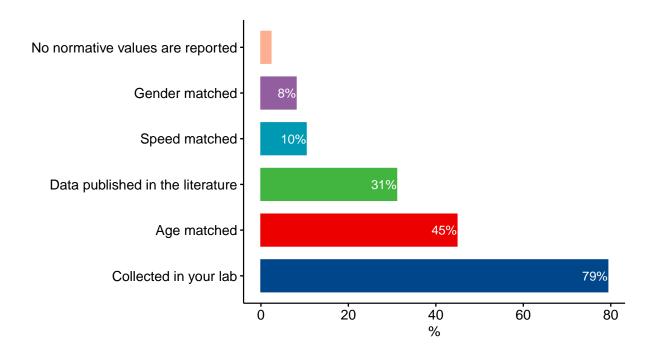
# 6.4 CGA reporting - visualization Q64

Does your report display the following data?

		Always	Sometimes	Never	
Images of the patients at key instants	23%	30%		48%	
Physical exam-		68%		18%	14%
Spatio-temporal (raw)		86%			<b>6%</b> 8%
Spatio-temporal (dimensionless)	31%	18%		51%	
Gait score – GGI	6% 7%		86%		
Gait score – GDI-	21%	13%	66	5%	
Gait score – GPS-	17% 1	17% 18%		65%	
Gait score – MAP -	10% 12%		78%		
3D kinematics of the lower limbs		86%			<mark>7%</mark> 7%
3D kinematics of the foot	12%	42%		46%	
3D kinematics of the pelvis		83%			<mark>10%</mark> 7%
3D kinematics of the trunk	35%		40%		25%
3D kinematics of the arms	11%	35%		54%	
3D kinematics of the head	8% 28%	6	64	4%	
3D kinetics of the lower limbs		67%		23%	11%
3D ground reaction forces		55%	2	5%	19%
Only sagittal moments	28%	16%		57%	
Internal joint moments	45%	%	22%	32	%
External joint moments	30%	18%		52%	
Distal joint moments	39%		21%	39%	
Proximal joint moments -	41%		22%	38%	
Sagittal power of the lower limb	50	)%	18%	32	%
3D powers of the lower limb	36%	18%	6	46%	
Normalised kinematics cycle by cycle consistency -	60%		16	<b>6%</b>	24%
Normalised kinematics – mean/SD -	59%		15	15% 26%	
Normalised kinetics cycle by cycle consistency	52%		18%	29	9%
Normalised kinetics – mean/SD -	56%		199	<mark>%</mark>	25%
Kinetics normalised by body weight -		65%		21%	15%
Non–dimensional normalisation of kinetics	8% <mark>11%</mark>		82%		
Raw EMG -	38%	16	%	46%	
Filtered EMG	41%		30%		8%
Envelop EMG -	39%		25%	36%	
Normative values for each graph displayed		71%		21%	9%
Plantar Pressure map	15%	38%		47%	
Conditions of Testing Identified		86%			<mark>8%</mark> 6%
Identification of Right/Left sides	94%				6%
Identification of Gait Cycle -	92%				<mark>6%</mark>
Identification of Y-axis label		76%			19%
Anatomic/Planar Orientation of Plots		55%	9%	36%	
Normative Data Included on Plots and Clearly Identified		73%		11%	16%
Type of depicted data clearly identified		67%		11%	22%
Clear identification of type of processing, if appropriate	26%	22%		52%	100/
Muscles or muscle abbreviations clearly identified		76%		8%	16%
	0 2	25	50 %	75	100

# 6.5 CGA reporting - normative values Q65

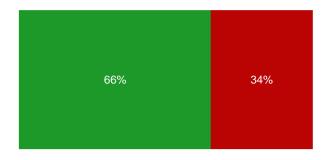
If you report normative values these are



#### 6.6 Normative data - check Q66

Do you check your normal data against literature?

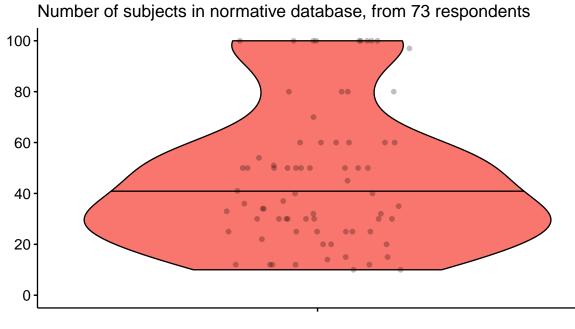




Do you check your normal data against literature?

## 6.7 Normative data - amount Q67

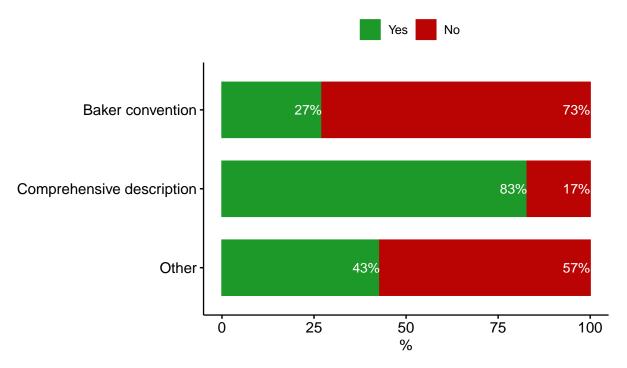
How many subjects are included in total in the normative database?



N of normative dataset

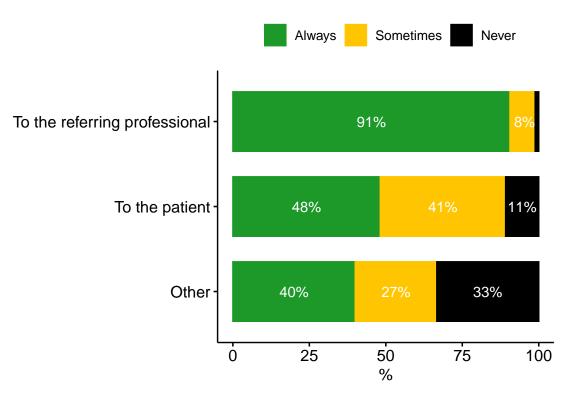
# 6.8 Identify gait deviations Q68

How do you identify gait deviations on the graphs of the report?



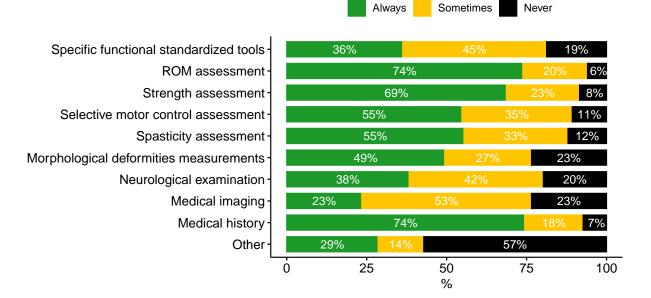
## 6.9 CGA reporting - to whom Q69

To whom is your CGA report delivered?



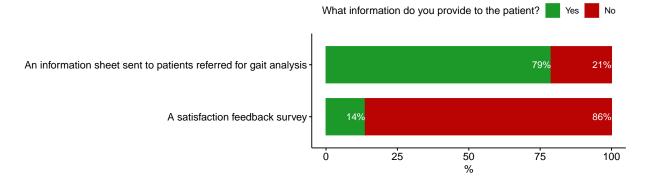
#### 6.10 Data for decision making Q70

Which clinical data do you use in combination with 3D GA for decision making or follow up assessments?

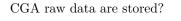


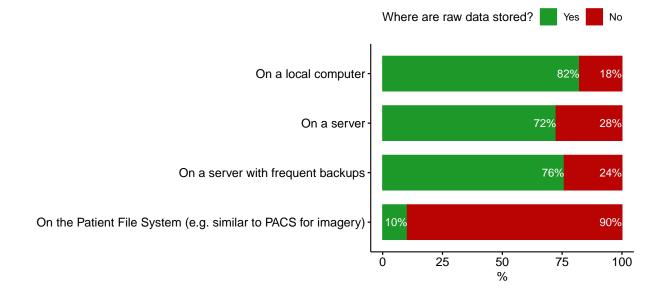
## 6.11 Information to patients Q71

What information do you provide for the patients?



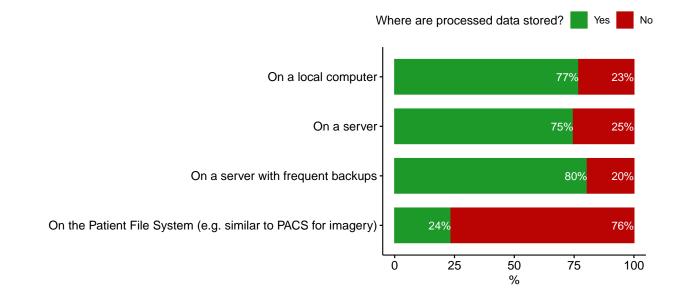
## 6.12 Storage - raw data Q72





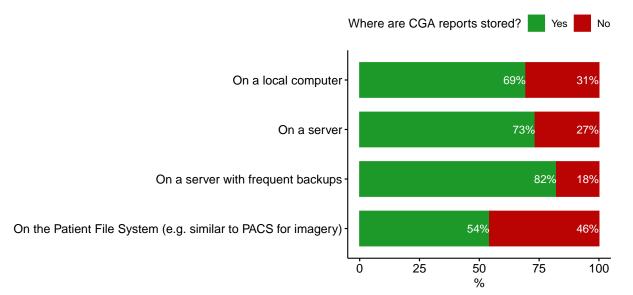
### 6.13 Storage - processed data Q73

CGA processed data are stored?



### 6.14 Storage - report Q74

CGA reports are stored



## 6.15 Storage - duration Q75

What is the duration of the storage? Please enter a number of years.

