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Document information				
Document number	4.01.3D Footplate GSPR checklist	Document version	1.3	
Document owner(s)	Department, title	Date	Version	
E. Masih	Biomechanical engineering, BSc	1-7-2024	1.3	
G.J.M. Tuijthof	Biomechanical engineering, Prof. Dr. Ir.	1-7-2024	1.3	
Document release	Department, title	Date	Version	
G.J.M. Tuijthof	Biomechanical engineering, Prof. Dr. Ir.	11-9-2025	1.3	
Document changes	Department, title	Date	Version	Summary of changes
E. Masih	Biomechanical engineering, BSc	1-7-2024	1.3	Set up document
E. Masih	Biomechanical engineering, BSc	3-9-2024	1.3	Adjusted version number documents
G.J.M. Tuijthof	Biomechanical engineering, Prof. Dr. Ir.	18-7-2025	1.3	Adjusted template and verified document
G.J.M. Tuijthof	Biomechanical engineering, Prof. Dr. Ir.	4-8-2025	1.3	Final adjustments
G.J.M. Tuijthof	Biomechanical engineering, Prof. Dr. Ir.	11-9-2025	1.3	Recheck GSPR that we marked were updated in other files; added red colored cells to indicate which requirements at this stage do not fully comply

#### References

MDR Annex I <https://eur.leg.europa.eu/legal-content/EN/TXT/HTML/?uri=CELEX:02017R0745-20200424&from=EN>

#### University of Twente

TechMed MDR Taskforce & Sustainable Healthcare Technology programme updated by GJMTuijthof

Template name	GSPR checklist
Template number	4.01.x
Template version	1.3
Template date	240506

#### Template change history

220110	IVDR added
240506	IVDR removed and worksheet template instructions added

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**GENERAL SAFETY AND PERFORMANCE REQUIREMENTS according to MDR Annex I**

Use most up-to-date list of harmonized standards:

[https://ec.europa.eu/growth/single-market/european-standards/harmonised-standards/medical-devices\\_en](https://ec.europa.eu/growth/single-market/european-standards/harmonised-standards/medical-devices_en)

No.	GENERAL SAFETY AND PERFORMANCE REQUIREMENTS			Applicable (Y/N)	Method of Conformity [Referenced Standard]	Objective Evidence	Fulfilled (Y/N/In Progress)	Comments or Reason for non-applicability
	GENERAL REQUIREMENTS							
1	GENERAL REQUIREMENTS	1. Devices shall achieve the performance intended by their manufacturer and shall be designed and manufactured in such a way that, during normal conditions of use, they are suitable for their intended purpose. They shall be safe and effective and shall not compromise the clinical condition or the safety of patients, or the safety and health of users or, where applicable, other persons, provided that any risks which may be associated with their use constitute acceptable risks when weighed against the benefits to the patient and are compatible with a high level of protection of health and safety, taking into account the generally acknowledged state of the art.		Y		<a href="http://doi.org/10.1016/j.ergon.2011.10.006">http://doi.org/10.1016/j.ergon.2011.10.006</a> ; <a href="https://purl.utwente.nl/essays/96365">https://purl.utwente.nl/essays/96365</a> ; <a href="#">Masih_MScThesis_UTwente</a> ; <a href="#">5.3D Foot Plate - Hazard Traceability Matrix Template v1.1</a>	Y	
2	GENERAL REQUIREMENTS	2. The requirement in this Annex to reduce risks as far as possible means the reduction of risks as far as possible without adversely affecting the benefit-risk ratio.		Y	ISO 14971	5.3D Foot Plate - Hazard Traceability Matrix Template v1.1	Y	
3	GENERAL REQUIREMENTS	3. Manufacturers shall establish, implement, document and maintain a risk management system.		Y	ISO 14971	5.3D Foot Plate - Hazard Traceability Matrix Template v1.1	N	3D Footplate is supposed to be manufactured and assembled by the party that decides to use it, we provide all available information but cannot control this process
4	GENERAL REQUIREMENTS	Risk management shall be understood as a continuous iterative process throughout the entire lifecycle of a device, requiring regular systematic updating. In carrying out risk management manufacturers shall:						
5	GENERAL REQUIREMENTS	(a) establish and document a risk management plan for each device;						
6	GENERAL REQUIREMENTS	(b) identify and analyse the known and foreseeable hazards associated with each device;						
7	GENERAL REQUIREMENTS	(c) estimate and evaluate the risks associated with, and occurring during, the intended use and during reasonably foreseeable misuse;						
8	GENERAL REQUIREMENTS	(d) eliminate or control the risks referred to in point (c) in accordance with the requirements of Section 4;						
9	GENERAL REQUIREMENTS	(e) evaluate the impact of information from the production phase and, in particular, from the post-market surveillance system, on hazards and the frequency of occurrence thereof, on estimates of their associated risks, as well as on the overall risk, benefit-risk ratio and risk acceptability; and						
10	GENERAL REQUIREMENTS	(f) based on the evaluation of the impact of the information referred to in point (e), if necessary amend control measures in line with the requirements of Section 4.						
11	GENERAL REQUIREMENTS	4. Risk control measures adopted by manufacturers for the design and manufacture of the devices shall conform to safety principles, taking account of the generally acknowledged state of the art. To reduce risks, Manufacturers shall manage risks so that the residual risk associated with each hazard as well as the overall residual risk is judged acceptable. In selecting the most appropriate solutions, manufacturers shall, in the following order of priority:		Y	ISO 14971	5.3D Foot Plate - Hazard Traceability Matrix Template v1.1	Y	
12	GENERAL REQUIREMENTS	(a) eliminate or reduce risks as far as possible through safe design and manufacture						
13	GENERAL REQUIREMENTS	(b) where appropriate, take adequate protection measures, including alarms if necessary, in relation to risks that cannot be eliminated; and						
14	GENERAL REQUIREMENTS	(c) provide information for safety (warnings/precautions/contra-indications) and, where appropriate, training to users.		Y	ISO 20417; ISO 15223	2.02.3D Footplate User manual v3.0	Y	
15	GENERAL REQUIREMENTS	Manufacturers shall inform users of any residual risks.		Y	ISO 20417; ISO 15223	2.02.3D Footplate User manual v3.0	Y	
16	GENERAL REQUIREMENTS	5. In eliminating or reducing risks related to use error, the manufacturer shall:		Y	ISO 14971	5.3D Foot Plate - Hazard Traceability Matrix Template v1.1; 2.02.3D Footplate User manual v3.0	Y	



17	GENERAL REQUIREMENTS		(a) reduce as far as possible the risks related to the ergonomic features of the device and the environment in which the device is intended to be used (design for patient safety), and				
18	GENERAL REQUIREMENTS		(b) give consideration to the technical knowledge, experience, education, training and use environment, where applicable, and the medical and physical conditions of intended users (design for lay, professional, disabled or other users).				
19	GENERAL REQUIREMENTS	6.	The characteristics and performance of a device shall not be adversely affected to such a degree that the health or safety of the patient or the user and, where applicable, of other persons are compromised during the lifetime of the device, as indicated by the manufacturer, when the device is subjected to the stresses which can occur during normal conditions of use and has been properly maintained in accordance with the manufacturer's instructions.	Y		6.3D Footplate preclinical validation; 030303.3D Foot Plate Bill of Materials v2.2; 3.04.3D Footplate Assembly manual v1.1; 2.02.3D Footplate Maintenance manual v1.0	N 3D Footplate is supposed to be manufactured and assembled by the party that decides to use it, we provide all available information but cannot control this process
20	GENERAL REQUIREMENTS	7.	Devices shall be designed, manufactured and packaged in such a way that their characteristics and performance during their intended use are not adversely affected during transport and storage, for example, through fluctuations of temperature and humidity, taking account of the instructions and information provided by the manufacturer	Y		3.00.3D Footplate DesDev v1.4; entire folder 0301_3D Models and 0302_Technical Drawings; 030303.3D Foot Plate Bill of Materials v2.2; 3.04.3D Footplate Lasercutter Settings v1.0; 3.04.3D Footplate Assembly manual v1.1; 2.02.3D Footplate Maintenance manual v1.0	N 3D Footplate is supposed to be manufactured and assembled by the party that decides to use it, we provide all available information but cannot control this process
21	GENERAL REQUIREMENTS	8.	All known and foreseeable risks, and any undesirable side-effects, shall be minimised and be acceptable when weighed against the evaluated benefits to the patient and/or user arising from the achieved performance of the device during normal conditions of use.	Y	ISO 14971	5.3D Foot Plate - Hazard Traceability Matrix Template v1.1	Y
22	GENERAL REQUIREMENTS	9.	For the devices referred to in Annex XVI, the general safety requirements set out in Sections 1 and 8 shall be understood to mean that the device, when used under the conditions and for the purposes intended, does not present a risk at all or presents a risk that is no more than the maximum acceptable risk related to the product's use which is consistent with a high level of protection for the safety and health of persons.	N			3D Footplate does not belong to product category as mentioned in Annex XVI
23	<b>REQUIREMENTS REGARDING DESIGN AND MANUFACTURE</b>						
24	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE	10.	Chemical, physical and biological properties				
25	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE	10.1.	Devices shall be designed and manufactured in such a way as to ensure that the characteristics and performance requirements referred to in Chapter I are fulfilled. Particular attention shall be paid to:	Y		3.00.3D Footplate DesDev v1.4; entire folder 0301_3D Models and 0302_Technical Drawings; 030303.3D Foot Plate Bill of Materials v2.2; 3.04.3D Footplate Lasercutter Settings v1.0; 3.04.3D Footplate Assembly manual v1.1; 2.02.3D Footplate Maintenance manual v1.0	N 3D Footplate is supposed to be manufactured and assembled by the party that decides to use it, we provide all available information but cannot control this process
26	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		(a) the choice of materials and substances used, particularly as regards toxicity and, where relevant, flammability;	Y		3.00.3D Footplate DesDev v1.4; 030303.3D Foot Plate Bill of Materials v2.2	Y
27	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		(b) the compatibility between the materials and substances used and biological tissues, cells and body fluids, taking account of the intended purpose of the device and, where relevant, absorption, distribution, metabolism and excretion;	Y		3.00.3D Footplate DesDev v1.4; 030303.3D Foot Plate Bill of Materials v2.2	Y
28	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		(c) the compatibility between the different parts of a device which consists of more than one implantable part;	N			
29	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		(d) the impact of processes on material properties;	Y		3.00.3D Footplate DesDev v1.4; 030303.3D Foot Plate Bill of Materials v2.2; 3.04.3D Footplate Lasercutter Settings v1.0; 3.04.3D Footplate Assembly manual v1.1; 2.02.3D Footplate Maintenance manual v1.0	Y
30	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		(e) where appropriate, the results of biophysical or modelling research the validity of which has been demonstrated beforehand;	N			
31	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		(f) the mechanical properties of the materials used, reflecting, where appropriate, matters such as strength, ductility, fracture resistance, wear resistance and fatigue resistance;	Y		3.00.3D Footplate DesDev v1.4; 6.3D Footplate preclinical validation	N We have designed the 3D footplate taking this requirement as much as possible into consideration; however 3D Footplate has not been sufficiently tested on all these items, especially not regarding fracture, wear and fatigue resistance



32	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE			(g) surface properties; and	Y		3.00.3D Footplate DesDev v1.4; 030303.3D Foot Plate Bill of Materials v2.2; 3.04.3D Footplate Lasercutter Settings v1.0; 3.04.3D Footplate Assembly manual v1.1; 2.02.3D Footplate Maintenance manual v1.0	Y	
33	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE			(h) the confirmation that the device meets any defined chemical and/or physical specifications.	Y		3.00.3D Footplate DesDev v1.4; 6.3D Footplate preclinical validation	N	We have designed the 3D footplate taking this requirement as much as possible into consideration; however 3D Footplate has not been sufficiently tested on all these items, especially not regarding fracture, wear and fatigue resistance
34	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE			10.2. Devices shall be designed, manufactured and packaged in such a way as to minimise the risk posed by contaminants and residues to patients, taking account of the intended purpose of the device, and to the persons involved in the transport, storage and use of the devices. Particular attention shall be paid to tissues exposed to those contaminants and residues and to the duration and frequency of exposure.	N				3D Footplate does not contain dangerous substances
35	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE			10.3. Devices shall be designed and manufactured in such a way that they can be used safely with the materials and substances, including gases, with which they enter into contact during their intended use; if the devices are intended to administer medicinal products they shall be designed and manufactured in such a way as to be compatible with the medicinal products concerned in accordance with the provisions and restrictions governing those medicinal products and that the performance of both the medicinal products and of the devices is maintained in accordance with their respective indications and intended use.	N				3D Footplate does not use substances or processes substances
36	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE			10.4. Substances					
37	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE			10.4.1. Design and manufacture of devices	Y		3.00.3D Footplate DesDev v1.4; entire folder 0301_3D Models and 0302_Technical Drawings; 030303.3D Foot Plate Bill of Materials v2.2; 3.04.3D Footplate Lasercutter Settings v1.0; 3.04.3D Footplate Assembly manual v1.1; 2.02.3D Footplate Maintenance manual v1.0	N	3D Footplate is supposed to be manufactured and assembled by the party that decides to use it, we provide all available information but cannot control this process
38	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE			Devices shall be designed and manufactured in such a way as to reduce as far as possible the risks posed by substances or particles, including wear debris, degradation products and processing residues, that may be released from the device	Y		030303.3D Foot Plate Bill of Materials v2.2; 3.04.3D Footplate Lasercutter Settings v1.0;	N	3D Footplate is supposed to be manufactured and assembled by the party that decides to use it, we have not performed wear or degradation tests, but highlighted the parts that are most likely to fail first
39	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE			Devices, or those parts thereof or those materials used therein that: — are invasive and come into direct contact with the human body, — (re)administer medicines, body liquids or other substances, including gases, to/from the body, or — transport or store such medicines, body fluids or substances, including gases, to be (re)administered to the body,  shall only contain the following substances in a concentration that is above 0,1 % weight by weight (w/w) where justified pursuant to Section 10.4.2:	N				
40	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE			(a) substances which are carcinogenic, mutagenic or toxic to reproduction ('CMR'), of category 1A or 1B, in accordance with Part 3 of Annex VI to Regulation (EC) No 1272/2008 of the European Parliament and of the Council (1), or					
41	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE			(b) substances having endocrine-disrupting properties for which there is scientific evidence or probable serious effects to human health and which are identified either in accordance with the procedure set out in Article 59 of Regulation (EC) No 1907/2006 of the European Parliament and of the Council (2) or, once a delegated act has been adopted by the Commission <i>concerning the first subparagraph of Article 5(2) of Regulation (EU) No 572/2012 of the European Parliament and the Council</i>					
42	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE			10.4.2. Justification regarding the presence of CMR and/or endocrine-disrupting substances	N				
43	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE			The justification for the presence of such substances shall be based upon:					
44	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE			(a) an analysis and estimation of potential patient or user exposure to the substance;					
45	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE			(b) an analysis of possible alternative substances, materials or designs, including, where available, information about independent research, peer-reviewed studies, scientific opinions from relevant scientific committees and an analysis of the availability of such alternatives					
46	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE			(c) argumentation as to why possible substance and/or material substitutes, if available, or design changes, if feasible, are inappropriate in relation to maintaining the functionality, performance and the benefit-risk ratios of the product; including taking into account if the intended use of such devices includes treatment of children or treatment of pregnant or <i>breastfeeding women or treatment of other patient groups considered particularly vulnerable to such substances and/or</i>					



47	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE			(d) where applicable and available, the latest relevant scientific committee guidelines in accordance with Sections 10.4.3. and 10.4.4					
48	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE			10.4.3. Guidelines on phthalates	N				
49	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE			For the purposes of Section 10.4., the Commission shall, as soon as possible and by 26 May 2018, provide the relevant scientific committee with a mandate to prepare guidelines that shall be ready before 26 May 2020. The mandate for the committee shall encompass at least a benefit-risk assessment of the presence of phthalates which belong to either of the groups of substances referred to in points (a) and (b) of Section 10.4.1. The benefit-risk assessment shall take into account the intended purpose and context of the use of					
50	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE			10.4.4. Guidelines on other CMR and endocrine-disrupting substances	N				
51	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE			Subsequently, the Commission shall mandate the relevant scientific committee to prepare guidelines as referred to in Section 10.4.3. also for other substances referred to in points (a) and (b) of Section 10.4.1., where appropriate.					
52	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE			10.4.5. Labelling	N				
53	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE			Where devices, parts thereof or materials used therein as referred to in Section 10.4.1. contain substances referred to in points (a) or (b) of Section 10.4.1. in a concentration above 0,1 % weight by weight (w/w), the presence of those substances shall be labelled on the device itself and/or on the packaging for each unit or, where appropriate, on the sales packaging, with the list of such substances. If the intended use of such devices includes treatment of children or treatment of pregnant or breastfeeding women or treatment of other patient groups considered particularly vulnerable to such substances and/or materials, information on residual risks for those patient groups and, if applicable, on appropriate precautionary measures shall be given in the instructions for use.					
54	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE			10.5. Devices shall be designed and manufactured in such a way as to reduce as far as possible the risks posed by the unintentional ingress of substances into the device taking into account the device and the nature of the environment in which it is intended to be used.	Y		5.3D Footplate Hazard Traceability Matrix v1.1; 3.00.3D Footplate DesDev v1.4; entire folder 0301_3D Models and 0302_Technical Drawings; 030303.3D Foot Plate Bill of Materials v2.2; 3.04.3D Footplate Lasercutter Settings v1.0; 3.04.3D Footplate Assembly manual v1.1; 2.02.3D Footplate Maintenance manual v1.0; 6.3D Footplate preclinical validation	N	3D Footplate is supposed to be manufactured and assembled by the party that decides to use it, we provide all available information but cannot control this process
55	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE			10.6. Devices shall be designed and manufactured in such a way as to reduce as far as possible the risks linked to the size and the properties of particles which are or can be released into the patient's or user's body, unless they come into contact with intact skin only. Special attention shall be given to nanomaterials.	N			3D Footplate comes only in contact with intact skin	
56	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE			11. Infection and microbial contamination					
57	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE			11.1. Devices and their manufacturing processes shall be designed in such a way as to eliminate or to reduce as far as possible the risk of infection to patients, users and, where applicable, other persons. The design shall:	Y	ISO 14971	5.3D Footplate Hazard Traceability Matrix v1.1; 3.00.3D Footplate DesDev v1.4; 2.02.3D Footplate Maintenance manual v1.0; 6.3D Footplate preclinical validation; <a href="http://doi.org/10.1016/j.ergon.2011.10.006">http://doi.org/10.1016/j.ergon.2011.10.006</a> ; <a href="https://purl.utwente.nl/essays/96365">https://purl.utwente.nl/essays/96365</a> ; <a href="#">Masih_MScThesis_UTwente</a> ;	Y	We have designed the 3D footplate taking this requirement as much as possible into consideration; however 3D Footplate should be additionally teste once manufactured
58	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE			(a) reduce as far as possible and appropriate the risks from unintended cuts and pricks, such as needle stick injuries,	Y	ISO 14971	5.3D Footplate Hazard Traceability Matrix v1.1; 3.00.3D Footplate DesDev v1.4; 6.3D Footplate preclinical validation; 2.02.3D Footplate Maintenance manual v1.0; <a href="http://doi.org/10.1016/j.ergon.2011.10.006">http://doi.org/10.1016/j.ergon.2011.10.006</a> ; <a href="https://purl.utwente.nl/essays/96365">https://purl.utwente.nl/essays/96365</a> ; <a href="#">Masih_MScThesis_UTwente</a> ;	Y	
59	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE			(b) allow easy and safe handling,	Y	ISO 14971	5.3D Footplate Hazard Traceability Matrix v1.1; 3.00.3D Footplate DesDev v1.4; 6.3D Footplate preclinical validation; 2.02.3D Footplate Maintenance manual v1.0; <a href="http://doi.org/10.1016/j.ergon.2011.10.006">http://doi.org/10.1016/j.ergon.2011.10.006</a> ; <a href="https://purl.utwente.nl/essays/96365">https://purl.utwente.nl/essays/96365</a> ; <a href="#">Masih_MScThesis_UTwente</a> ;	Y	
60	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE			(c) reduce as far as possible any microbial leakage from the device and/or microbial exposure during use, and	N				
61	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE			(d) prevent microbial contamination of the device or its content such as specimens or fluids	N				



62	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		11.2. Where necessary devices shall be designed to facilitate their safe cleaning, disinfection, and/or re-sterilisation	Y	ISO 14971; ISO 17664	5.3D Footplate Hazard Traceability Matrix v1.1; 3.00.3D Footplate DesDev v1.4.; 2.02.3D Footplate Maintenance manual v1.0; Masih_MScThesis_UTwente;	N	We have designed the 3D footplate taking this requirement as much as possible into consideration; however 3D Footplate has not been sufficiently tested on all these items see
63	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		11.3. Devices labelled as having a specific microbial state shall be designed, manufactured and packaged to ensure that they remain in that state when placed on the market and remain so under the transport and storage conditions specified by the manufacturer.	N				3D Footplate will not acquire a specific microbial state
64	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		11.4. Devices delivered in a sterile state shall be designed, manufactured and packaged in accordance with appropriate procedures, to ensure that they are sterile when placed on the market and that, unless the packaging which is intended to maintain their sterile condition is damaged, they remain sterile, under the transport and storage conditions specified by the manufacturer, until that packaging is opened at the point of use. It shall be ensured that the integrity of that packaging is clearly evident to the final user	N				3D Footplate is not delivered or used in a sterile condition
65	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		11.5. Devices labelled as sterile shall be processed, manufactured, packaged and, sterilised by means of appropriate, validated methods.	N				3D Footplate is not delivered or used in a sterile condition
66	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		11.6. Devices intended to be sterilised shall be manufactured and packaged in appropriate and controlled conditions and facilities.	N				3D Footplate is not delivered or used in a sterile condition
67	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		11.7. Packaging systems for non-sterile devices shall maintain the integrity and cleanliness of the product and, where the devices are to be sterilised prior to use, minimise the risk of microbial contamination; the packaging system shall be suitable taking account of the method of sterilisation indicated by the manufacturer	N				3D Footplate is not delivered or used in a sterile condition
68	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		11.8. The labelling of the device shall distinguish between identical or similar devices placed on the market in both a sterile and a non-sterile condition additional to the symbol used to indicate that devices are sterile.	N				3D Footplate is not delivered or used in a sterile condition
69	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE	12.	Devices incorporating a substance considered to be a medicinal product and devices that are composed of substances or of combinations of substances that are absorbed by or locally dispersed in the human body	N				3D Footplate is not contain medicinal products
70	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		12.1. In the case of devices referred to in the first subparagraph of Article 1(6), the quality, safety and usefulness of the substance which, if used separately, would be considered to be a medicinal product within the meaning of point (2) of Article 1 of Directive 2001/83/EC, shall be verified by analogy with the methods specified in Annex I to Directive 2001/83/EC, as required by the applicable conformity assessment procedure under this Regulation					
71	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		12.2. Devices that are composed of substances or of combinations of substances that are intended to be introduced into the human body, and that are absorbed by or locally dispersed in the human body shall comply, where applicable and in a manner limited to the aspects not covered by this Regulation, with the relevant requirements laid down in Annex I to Directive 2001/83/EC for the evaluation of absorption, distribution, metabolism, excretion, local tolerance, toxicity, interaction with other devices, medicinal products or other substances and potential for adverse reactions, as required by the applicable conformity assessment procedure under this Regulation					
72	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE	13.	Devices incorporating materials of biological origin	N				3D Footplate is not contain materials from biological origin
73	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		13.1. For devices manufactured utilising derivatives of tissues or cells of human origin which are non-viable or are rendered non-viable covered by this Regulation in accordance with point (g) of Article 1(6), the following shall apply:	N				3D Footplate is not contain materials from biological origin
74	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		(a) donation, procurement and testing of the tissues and cells shall be done in accordance with Directive 2004/23/EC;					
75	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		(b) processing, preservation and any other handling of those tissues and cells or their derivatives shall be carried out so as to provide safety for patients, users and, where applicable, other persons. In particular, safety with regard to viruses and other transmissible agents shall be addressed by appropriate methods of sourcing and by implementation of validated methods of elimination or inactivation in the course of the manufacturing process;					
76	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		(c) the traceability system for those devices shall be complementary and compatible with the traceability and data protection requirements laid down in Directive 2004/23/EC and in Directive 2002/98/EC.					
77	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		13.2. For devices manufactured utilising tissues or cells of animal origin, or their derivatives, which are non-viable or rendered non-viable the following shall apply:	N				3D Footplate is not contain materials from biological origin
78	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		(a) where feasible taking into account the animal species, tissues and cells of animal origin, or their derivatives, shall originate from animals that have been subjected to veterinary controls that are adapted to the intended use of the tissues. Information on the geographical origin of the animals shall be retained by manufacturers;					
79	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		(b) sourcing, processing, preservation, testing and handling of tissues, cells and substances of animal origin, or their derivatives, shall be carried out so as to provide safety for patients, users and, where applicable, other persons. In particular safety with regard to viruses and other transmissible agents shall be addressed by implementation of validated methods of elimination or viral inactivation in the course of the manufacturing process, except when the use of such methods would lead to unacceptable degradation compromising the clinical benefit of the device;					
80	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		(c) in the case of devices manufactured utilising tissues or cells of animal origin, or their derivatives, as referred to in Regulation (EU) No 722/2012 the particular requirements laid down in that Regulation shall apply.					



81	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		13.3. For devices manufactured utilising non-viable biological substances other than those referred to in Sections 13.1 and 13.2, the processing, preservation, testing and handling of those substances shall be carried out so as to provide safety for patients, users and, where applicable, other persons, including in the waste disposal chain. In particular, safety with regard to viruses and other transmissible agents shall be addressed by appropriate methods of sourcing and by implementation of validated methods of elimination or inactivation in the course of the manufacturing process	N				3D Footplate is not contain materials from biological origin
82	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		14. Construction of devices and interaction with their environment					
83	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		14.1. If the device is intended for use in combination with other devices or equipment the whole combination, including the connection system shall be safe and shall not impair the specified performance of the devices. Any restrictions on use applying to such combinations shall be indicated on the label and/or in the instructions for use. Connections which the user has to handle, such as fluid, gas transfer, electrical or mechanical coupling, shall be designed and constructed in such a way as to minimise all possible risks, such as misconnection.	N				3D Footplate does not contain dedicated connections with other devices; however it is to be used in combination with a CT-scanner, so should be placed on the scanner's bed together with the patient
84	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		14.2. Devices shall be designed and manufactured in such a way as to remove or reduce as far as possible:	Y	ISO 14971	5.3D Footplate Hazard Traceability Matrix v1.1; 3.00.3D Footplate DesDev v1.4; 2.02.3D Footplate Maintenance manual v1.0; <a href="http://doi.org/10.1016/j.ergon.2011.10.006">http://doi.org/10.1016/j.ergon.2011.10.006</a> ; <a href="https://purl.utwente.nl/essays/96365">https://purl.utwente.nl/essays/96365</a> ; Masih_MScThesis_UTwente;	Y	3D Footplate design and validation has been done as much as possible to reduce risks, however some residual risks remain see 5.3D Footplate Hazard Traceability Matrix v1.1
85	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		(a) the risk of injury, in connection with their physical features, including the volume/pressure ratio, dimensional and where appropriate ergonomic features;	Y		5.3D Footplate Hazard Traceability Matrix v1.1; 3.00.3D Footplate DesDev v1.4; Masih_MScThesis_UTwente; 6.3D Footplate preclinical validation	Y	
86	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		(b) risks connected with reasonably foreseeable external influences or environmental conditions, such as magnetic fields, external electrical and electromagnetic effects, electrostatic discharge, radiation associated with diagnostic or therapeutic procedures, pressure, humidity, temperature, variations in pressure and acceleration or radio signal interferences	Y		5.3D Footplate Hazard Traceability Matrix v1.1; 3.00.3D Footplate DesDev v1.4; 3D Footplate User manual v3.0; Masih_MScThesis_UTwente; 6.3D Footplate preclinical validation	Y	3D Footplate is to be used in combination with a CT-scanner, so should be placed on the scanner's bed together with the patient
87	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		(c) the risks associated with the use of the device when it comes into contact with materials, liquids, and substances, including gases, to which it is exposed during normal conditions of use;	N				
88	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		(d) the risks associated with the possible negative interaction between software and the IT environment within which it operates and interacts	N				
89	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		(e) the risks of accidental ingress of substances into the device;	Y	ISO 14971	5.3D Footplate Hazard Traceability Matrix v1.1;	N	3D Footplate was not explicitly tested for this, so substances could accidentally ingress into the device, which is part of acceptable residual risk
90	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		(f) the risks of reciprocal interference with other devices normally used in the investigations or for the treatment given; and	Y		5.3D Footplate Hazard Traceability Matrix v1.1; 3.00.3D Footplate DesDev v1.4; Masih_MScThesis_UTwente;	Y	3D Footplate is to be used in combination with a CT-scanner, so should be placed on the scanner's bed together with the patient
91	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		(g) risks arising where maintenance or calibration are not possible (as with implants), from ageing of materials used or loss of accuracy of any measuring or control mechanism.	Y		2.02.3D Footplate Maintenance manual v1.0	Y	
92	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		14.3. Devices shall be designed and manufactured in such a way as to minimise the risks of fire or explosion during normal use and in single fault condition. Particular attention shall be paid to devices the intended use of which includes exposure to or use in association with flammable or explosive substances or substances which could cause combustion.	N				3D Footplate does not contain flammable or is in contact with them
93	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		14.4. Devices shall be designed and manufactured in such a way that adjustment, calibration, and maintenance can be done safely and effectively.	Y		2.02.3D Footplate Maintenance manual v1.0	Y	
94	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		14.5. Devices that are intended to be operated together with other devices or products shall be designed and manufactured in such a way that the interoperability and compatibility are reliable and safe.	Y		3.00.3D Footplate DesDev v1.4; <a href="http://doi.org/10.1016/j.ergon.2011.10.006">http://doi.org/10.1016/j.ergon.2011.10.006</a> ; J. Norg, MSc thesis Development of a numerical analysis pipeline to study the influence of the Infinity Total Ankle System on hindfoot range of motion, TUE, 2025; doi: <a href="https://doi.org/10.1177/0363546512455403">10.1177/0363546512455403</a> ; doi:	Y	
95	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		14.6 Any measurement, monitoring or display scale shall be designed and manufactured in line with ergonomic principles, taking account of the intended purpose, users and the environmental conditions in which the devices are intended to be used.	N				3D Footplate does not measure anything



96	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		14.7. Devices shall be designed and manufactured in such a way as to facilitate their safe disposal and the safe disposal of related waste substances by the user, patient or other person. To that end, manufacturers shall identify and test procedures and measures as a result of which their devices can be safely disposed after use. Such procedures shall be described in the instructions for use.	N			3D Footplate does not contain dangerous materials
97	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		15. Devices with a diagnostic or measuring function	N			3D Footplate does not measure anything
98	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		15.1. Diagnostic devices and devices with a measuring function, shall be designed and manufactured in such a way as to provide sufficient accuracy, precision and stability for their intended purpose, based on appropriate scientific and technical methods. The limits of accuracy shall be indicated by the manufacturer.				
99	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		15.2. The measurements made by devices with a measuring function shall be expressed in legal units conforming to the provisions of Council Directive 80/181/EEC (1).				
100	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		16. Protection against radiation	N			3D Footplate does not radiate
101	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		16.1. General				
102	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		(a) Devices shall be designed, manufactured and packaged in such a way that exposure of patients, users and other persons to radiation is reduced as far as possible, and in a manner that is compatible with the intended purpose, whilst not restricting the application of appropriate specified levels for therapeutic and diagnostic purposes.				
103	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		(b) The operating instructions for devices emitting hazardous or potentially hazardous radiation shall contain detailed information as to the nature of the emitted radiation, the means of protecting the patient and the user, and on ways of avoiding misuse and of reducing the risks inherent to installation as far as possible and appropriate. Information regarding the acceptance and performance testing, the acceptance criteria and the maintenance procedure shall also be specified				
104	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		16.2. Intended radiation				
105	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		(a) Where devices are designed to emit hazardous, or potentially hazardous, levels of ionizing and/or non-ionizing radiation necessary for a specific medical purpose the benefit of which is considered to outweigh the risks inherent to the emission, it shall be possible for the user to control the emissions. Such devices shall be designed and manufactured to ensure reproducibility of relevant variable parameters within an acceptable tolerance				
106	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		(b) Where devices are intended to emit hazardous, or potentially hazardous, ionizing and/or non-ionizing radiation, they shall be fitted, where possible, with visual displays and/or audible warnings of such emissions				
107	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		16.3. Devices shall be designed and manufactured in such a way that exposure of patients, users and other persons to the emission of unintended, stray or scattered radiation is reduced as far as possible. Where possible and appropriate, methods shall be selected which reduce the exposure to radiation of patients, users and other persons who may be affected.				
108	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		16.4. Ionising radiation				
109	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		(a) Devices intended to emit ionizing radiation shall be designed and manufactured taking into account the requirements of the Directive 2013/59/Euratom laying down basic safety standards for protection against the dangers arising from exposure to ionising radiation.				
110	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		(b) Devices intended to emit ionising radiation shall be designed and manufactured in such a way as to ensure that, where possible, taking into account the intended use, the quantity, geometry and quality of the radiation emitted can be varied and controlled, and, if possible, monitored during treatment				
111	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		(c) Devices emitting ionising radiation intended for diagnostic radiology shall be designed and manufactured in such a way as to achieve an image and/or output quality that are appropriate to the intended medical purpose whilst minimising radiation exposure of the patient and user				
112	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		(d) Devices that emit ionising radiation and are intended for therapeutic radiology shall be designed and manufactured in such a way as to enable reliable monitoring and control of the delivered dose, the beam type, energy and, where appropriate, the quality of radiation.				
113	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		17. Electronic programmable systems — devices that incorporate electronic programmable systems and software that are devices in themselves	N			3D Footplate does not contain (programmable) electronic components or systems
114	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		17.1. Devices that incorporate electronic programmable systems, including software, or software that are devices in themselves, shall be designed to ensure repeatability, reliability and performance in line with their intended use. In the event of a single fault condition, appropriate means shall be adopted to eliminate or reduce as far as possible consequent risks or impairment of performance.				
115	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		17.2. For devices that incorporate software or for software that are devices in themselves, the software shall be developed and manufactured in accordance with the state of the art taking into account the principles of development life cycle, risk management, including information security, verification and validation.				
116	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		17.3. Software referred to in this Section that is intended to be used in combination with mobile computing platforms shall be designed and manufactured taking into account the specific features of the mobile platform (e.g. size and contrast ratio of the screen) and the external factors related to their use (varying environment as regards level of light or noise).				



117	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		17.4. Manufacturers shall set out minimum requirements concerning hardware, IT networks characteristics and IT security measures, including protection against unauthorised access, necessary to run the software as intended.					
118	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE	18. Active devices and devices connected to them		N			3D Footplate is not an active device	
119	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		18.1. For non-implantable active devices, in the event of a single fault condition, appropriate means shall be adopted to eliminate or reduce as far as possible consequent risks.					
120	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		18.2. Devices where the safety of the patient depends on an internal power supply shall be equipped with a means of determining the state of the power supply and an appropriate warning or indication for when the capacity of the power supply becomes critical. If necessary, such warning or indication shall be given prior to the power supply becoming critical.					
121	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		18.3. Devices where the safety of the patient depends on an external power supply shall include an alarm system to signal any power failure					
122	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		18.4. Devices intended to monitor one or more clinical parameters of a patient shall be equipped with appropriate alarm systems to alert the user of situations which could lead to death or severe deterioration of the patient's state of health					
123	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		18.5. Devices shall be designed and manufactured in such a way as to reduce as far as possible the risks of creating electromagnetic interference which could impair the operation of the device in question or other devices or equipment in the intended environment					
124	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		18.6. Devices shall be designed and manufactured in such a way as to provide a level of intrinsic immunity to electromagnetic interference such that is adequate to enable them to operate as intended.					
125	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		18.7. Devices shall be designed and manufactured in such a way as to avoid, as far as possible, the risk of accidental electric shocks to the patient, user or any other person, both during normal use of the device and in the event of a single fault condition in the device, provided the device is installed and maintained as indicated by the manufacturer.					
126	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		18.8. Devices shall be designed and manufactured in such a way as to protect, as far as possible, against unauthorised access that could hamper the device from functioning as intended.					
127	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE	19. Particular requirements for active implantable devices		N			3D Footplate is not an active implantable device	
128	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		19.1. Active implantable devices shall be designed and manufactured in such a way as to remove or minimize as far as possible:					
129	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		(a) risks connected with the use of energy sources with particular reference, where electricity is used, to insulation, leakage currents and overheating of the devices,					
130	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		(b) risks connected with medical treatment, in particular those resulting from the use of defibrillators or high-frequency surgical equipment, and					
131	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		(c) risks which may arise where maintenance and calibration are impossible, including: — excessive increase of leakage currents, — ageing of the materials used, <del>— excess heat generated by the device</del>					
132	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		19.2. Active implantable devices shall be designed and manufactured in such a way as to ensure — if applicable, the compatibility of the devices with the substances they are intended to administer, and — the reliability of the source of energy					
133	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		19.3. Active implantable devices and, if appropriate, their component parts shall be identifiable to allow any necessary measure to be taken following the discovery of a potential risk in connection with the devices or their component parts.					
134	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		19.4. Active implantable devices shall bear a code by which they and their manufacturer can be unequivocally identified (particularly with regard to the type of device and its year of manufacture); it shall be possible to read this code, if necessary, without the need for a surgical operation.					
135	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE	20. Protection against mechanical and thermal risks		Y				
136	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE	20.1. Devices shall be designed and manufactured in such a way as to protect patients and users against mechanical risks connected with, for example, resistance to movement, instability and moving parts.		Y	ISO 14971	5.3D Footplate Hazard Traceability Matrix v1.1; 3.00.3D Footplate DesDev v1.4; 2.02.3D Footplate Maintenance manual v1.0; <a href="http://doi.org/10.1016/j.ergon.2011.10.006">http://doi.org/10.1016/j.ergon.2011.10.006</a> ; <a href="https://nurl.utwente.nl/essays/96365">https://nurl.utwente.nl/essays/96365</a> .	N	3D Footplate is supposed to be manufactured and assembled by the party that decides to use it, we provide all available information but cannot control this process
137	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE	20.2. Devices shall be designed and manufactured in such a way as to reduce to the lowest possible level the risks arising from vibration generated by the devices, taking account of technical progress and of the means available for limiting vibrations, particularly at source, unless the vibrations are part of the specified performance		N			3D Footplate is not vibrating	



138	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		20.3. Devices shall be designed and manufactured in such a way as to reduce to the lowest possible level the risks arising from the noise emitted, taking account of technical progress and of the means available to reduce noise, particularly at source, unless the noise emitted is part of the specified performance	N				3D Footplate does not produce noise
139	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		20.4. Terminals and connectors to the electricity, gas or hydraulic and pneumatic energy supplies which the user or other person has to handle, shall be designed and constructed in such a way as to minimise all possible risks.	N				3D Footplate does not contain such components
140	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		20.5. Errors likely to be made when fitting or refitting certain parts which could be a source of risk shall be made impossible by the design and construction of such parts or, failing this, by information given on the parts themselves and/or their housings  The same information shall be given on moving parts and/or their housings where the direction of movement needs to be known in order to avoid a	N				
141	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		20.6. Accessible parts of devices (excluding the parts or areas intended to supply heat or reach given temperatures) and their surroundings shall not attain potentially dangerous temperatures under normal conditions of use.	N				3D Footplate does not generate heat
142	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		21. Protection against the risks posed to the patient or user by devices supplying energy or substances	Y	ISO 14971	5.3D Footplate Hazard Traceability Matrix v1.1; 3.00.3D Footplate DesDev v1.4;2.02.3D Footplate User manual v3.0; <a href="http://doi.org/10.1016/j.ergon.2011.10.006">http://doi.org/10.1016/j.ergon.2011.10.006</a> ; <a href="https://purl.utwente.nl/essays/96365">https://purl.utwente.nl/essays/96365</a> ; Masih_MScThesis_UTwente; 6.3D Footplate preclinical validation	Y	Patient's foot is positioned in extreme position with manual loading via the device. This can only be done by qualified personnel that has been trained in performing clinical stress tests
143	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		21.1. Devices for supplying the patient with energy or substances shall be designed and constructed in such a way that the amount to be delivered can be set and maintained accurately enough to ensure the safety of the patient and of the user.	Y	ISO 14971	5.3D Footplate Hazard Traceability Matrix v1.1; 3.00.3D Footplate DesDev v1.4;2.02.3D Footplate User manual v3.0; <a href="http://doi.org/10.1016/j.ergon.2011.10.006">http://doi.org/10.1016/j.ergon.2011.10.006</a> ; <a href="https://purl.utwente.nl/essays/96365">https://purl.utwente.nl/essays/96365</a> ; Masih_MScThesis_UTwente; 6.3D Footplate preclinical validation	Y	Patient's foot is positioned in extreme position with manual loading via the device. This can only be done by qualified personnel that has been trained in performing clinical stress tests
144	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		21.2. Devices shall be fitted with the means of preventing and/or indicating any inadequacies in the amount of energy delivered or substances delivered which could pose a danger. Devices shall incorporate suitable means to prevent, as far as possible, the accidental release of dangerous levels of energy or substances from an energy and/or substance source.	Y	ISO 14971	5.3D Footplate Hazard Traceability Matrix v1.1; 3.00.3D Footplate DesDev v1.4;2.02.3D Footplate User manual v3.0; <a href="http://doi.org/10.1016/j.ergon.2011.10.006">http://doi.org/10.1016/j.ergon.2011.10.006</a> ; <a href="https://purl.utwente.nl/essays/96365">https://purl.utwente.nl/essays/96365</a>	Y	Accidental release of the fixation will cause the foot to relax, and discontinue the exerted load as offered by the 3D Footplate
145	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		21.3. The function of the controls and indicators shall be clearly specified on the devices. Where a device bears instructions required for its operation or indicates operating or adjustment parameters by means of a visual system, such information shall be understandable to the user and, as appropriate, the patient.	N				3D Footplate does not contain controls and indicators
146	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		22. Protection against the risks posed by medical devices intended by the manufacturer for use by lay persons	N				3D Footplate is NOT intended to be used by lay persons
147	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		22.1. Devices for use by lay persons shall be designed and manufactured in such a way that they perform appropriately for their intended purpose taking into account the skills and the means available to lay persons and the influence resulting from variation that can be reasonably anticipated in the lay person's technique and environment. The information and instructions provided by the manufacturer shall be easy for the lay person to understand and apply					
148	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		22.2. Devices for use by lay persons shall be designed and manufactured in such a way as to:					
149	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		— ensure that the device can be used safely and accurately by the intended user at all stages of the procedure, if necessary after appropriate training and/or information,					
150	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		— reduce, as far as possible and appropriate, the risk from unintended cuts and pricks such as needle stick injuries, and					
151	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		— reduce as far as possible the risk of error by the intended user in the handling of the device and, if applicable, in the interpretation of the results.					
152	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		22.3. Devices for use by lay persons shall, where appropriate, include a procedure by which the lay person:					
153	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		— can verify that, at the time of use, the device will perform as intended by the manufacturer, and					
154	REQUIREMENTS REGARDING DESIGN AND MANUFACTURE		— if applicable, is warned if the device has failed to provide a valid result.					
155	<b>REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE</b>							



156	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE	23. Label and instructions for use			Y			
157	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE		23.1. General requirements regarding the information supplied by the manufacturer			Y	ISO 20417; ISO 15223; ISO 7000	2.02.3D Footplate User manual v3.0; 2.02.3D Footplate Maintenance manual v1.0
158	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE		Each device shall be accompanied by the information needed to identify the device and its manufacturer, and by any safety and performance information relevant to the user, or any other person, as appropriate. Such information may appear on the device itself, on the packaging or in the instructions for use, and shall, if the manufacturer has a website, be made available and kept up to date on the website, taking into account the following:					
159	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE		(a) The medium, format, content, legibility, and location of the label and instructions for use shall be appropriate to the particular device, its intended purpose and the technical knowledge, experience, education or training of the intended user(s). In particular, instructions for use shall be written in terms readily understood by the intended user and, where appropriate, supplemented with drawings and diagrams.					
160	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE		(b) The information required on the label shall be provided on the device itself. If this is not practicable or appropriate, some or all of the information may appear on the packaging for each unit, and/or on the packaging of multiple devices.					
161	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE		(c) Labels shall be provided in a human-readable format and may be supplemented by machine-readable information, such as radio-frequency identification ('RFID') or bar codes.					
162	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE		(d) Instructions for use shall be provided together with devices. By way of exception, instructions for use shall not be required for class I and class IIa devices if such devices can be used safely without any such instructions and unless otherwise provided for elsewhere in this Section					
163	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE		(e) Where multiple devices are supplied to a single user and/or location, a single copy of the instructions for use may be provided if so agreed by the purchaser who in any case may request further copies to be provided free of charge.					
164	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE		(f) Instructions for use may be provided to the user in non-paper format (e.g. electronic) to the extent, and only under the conditions, set out in Regulation (EU) No 207/2012 or in any subsequent implementing rules adopted pursuant to this Regulation.					
165	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE		(g) Residual risks which are required to be communicated to the user and/or other person shall be included as limitations, contraindications, precautions or warnings in the information supplied by the manufacturer					
166	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE		(h) Where appropriate, the information supplied by the manufacturer shall take the form of internationally recognised symbols. Any symbol or identification colour used shall conform to the harmonised standards or CS. In areas for which no harmonised standards or CS exist, the symbols and colours shall be described in the documentation supplied with the device.					
167	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE	23.2. Information on the label			Y	ISO 20417; ISO 15223		N
168	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE		The label shall bear all of the following particulars:					
169	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(a) the name or trade name of the device;				
170	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(b) the details strictly necessary for a user to identify the device, the contents of the packaging and, where it is not obvious for the user, the intended purpose of the device;				
171	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(c) the name, registered trade name or registered trade mark of the manufacturer and the address of its registered place of business;				
172	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(d) if the manufacturer has its registered place of business outside the Union, the name of the authorised representative and address of the registered place of business of the authorised representative;				
173	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(e) where applicable, an indication that the device contains or incorporates: — a medicinal substance, including a human blood or plasma derivative, or — tissues or cells, or their derivatives, of human origin, or — tissues or cells of animal origin, or their derivatives, as referred to in Regulation (EU) No 722/2012;				
174	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(f) where applicable, information labelled in accordance with Section 10.4.5.;				
175	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(g) the lot number or the serial number of the device preceded by the words LOT NUMBER or SERIAL NUMBER or an equivalent symbol, as appropriate;				



176	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(h) the UDI carrier referred to in Article 27(4) and Part C of Annex VII;				
177	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(i) an unambiguous indication of the time limit for using or implanting the device safely, expressed at least in terms of year and month, where this is relevant;				
178	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(j) where there is no indication of the date until when it may be used safely, the date of manufacture. This date of manufacture may be included as part of the lot number or serial number, provided the date is clearly identifiable;				
179	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(k) an indication of any special storage and/or handling condition that applies;				
180	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(l) if the device is supplied sterile, an indication of its sterile state and the sterilisation method;				
181	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(m) warnings or precautions to be taken that need to be brought to the immediate attention of the user of the device, and to any other person. This information may be kept to a minimum in which case more detailed information shall appear in the instructions for use, taking into account the intended users;				
182	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(n) if the device is intended for single use, an indication of that fact. A manufacturer's indication of single use shall be consistent across the Union;				
183	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(o) if the device is a single-use device that has been reprocessed, an indication of that fact, the number of reprocessing cycles already performed, and any limitation as regards the number of reprocessing cycles;				
184	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(p) if the device is custom-made, the words 'custom-made device';				
185	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(q) an indication that the device is a medical device. If the device is intended for clinical investigation only, the words 'exclusively for clinical investigation';				
186	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(r) in the case of devices that are composed of substances or of combinations of substances that are intended to be introduced into the human body via a body orifice or applied to the skin and that are absorbed by or locally dispersed in the human body, the overall qualitative composition of the device and quantitative information on the main constituent or <i>constituents responsible for achieving the principal intended action</i> ;				
187	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(s) for active implantable devices, the serial number, and for other implantable devices, the serial number or the lot number.				
188	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			23.3. Information on the packaging which maintains the sterile condition of a device ('sterile packaging')	N			3D Footplate is not used or delivered under sterile conditions
189	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			The following particulars shall appear on the sterile packaging:				
190	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(a) an indication permitting the sterile packaging to be recognised as such,				
191	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(b) a declaration that the device is in a sterile condition,				
192	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(c) the method of sterilisation,				
193	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(d) the name and address of the manufacturer,				
194	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(e) a description of the device,				
195	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(f) if the device is intended for clinical investigations, the words 'exclusively for clinical investigations',				
196	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(g) if the device is custom-made, the words 'custom-made device',				



197	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(h) the month and year of manufacture,				
198	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(i) an unambiguous indication of the time limit for using or implanting the device safely expressed at least in terms of year and month, and				
199	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(j) an instruction to check the instructions for use for what to do if the sterile packaging is damaged or unintentionally opened before use.				
200	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			23.4. Information in the instructions for use	Y	ISO 20417; ISO 15223; ISO 7000	2.02.3D Footplate User manual v3.0	Y
201	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			The instructions for use shall contain all of the following particulars:				
202	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(a) the particulars referred to in points (a), (c), (e), (f), (k), (l), (n) and (r) of Section 23.2;	Y	ISO 20417		Y
203	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(b) the device's intended purpose with a clear specification of indications, contra-indications, the patient target group or groups, and of the intended users, as appropriate;	Y	ISO 20417; ISO 15223	2.02.3D Footplate User manual v3.0	Y
204	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(c) where applicable, a specification of the clinical benefits to be expected.	Y	ISO 20417; ISO 15223	2.02.3D Footplate User manual v3.0	Y
205	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(d) where applicable, links to the summary of safety and clinical performance referred to in Article 32;				
206	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(e) the performance characteristics of the device;	Y	ISO 20417; ISO 15223	2.02.3D Footplate User manual v3.0	Y
207	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(f) where applicable, information allowing the healthcare professional to verify if the device is suitable and select the corresponding software and accessories;	Y	ISO 20417; ISO 15223	2.02.3D Footplate User manual v3.0	Y
208	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(g) any residual risks, contra-indications and any undesirable side-effects, including information to be conveyed to the patient in this regard;	Y	ISO 14971; ISO 20417		
209	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(h) specifications the user requires to use the device appropriately, e.g. if the device has a measuring function, the degree of accuracy claimed for it;	N			
210	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(i) details of any preparatory treatment or handling of the device before it is ready for use or during its use, such as sterilisation, final assembly, calibration, etc., including the levels of disinfection required to ensure patient safety and all available methods for achieving those levels of disinfection;	Y	ISO 20417; ISO 15223	2.02.3D Footplate User manual v3.0	Y
211	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(j) any requirements for special facilities, or special training, or particular qualifications of the device user and/or other persons;	Y	ISO 20417; ISO 15223	2.02.3D Footplate User manual v3.0	Y
212	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(k) the information needed to verify whether the device is properly installed and is ready to perform safely and as intended by the manufacturer, together with, where relevant: — details of the nature, and frequency, of preventive and regular maintenance, and of any preparatory cleaning or disinfection;	Y	ISO 16142	2.02.3D Footplate User manual v3.0; 2.02.3D Footplate Maintenance manual v1.0	Y
213	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(l) if the device is supplied sterile, instructions in the event of the sterile packaging being damaged or unintentionally opened before use;	N			3D Footplate is not supplied sterile
214	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(m) if the device is supplied non-sterile with the intention that it is sterilised before use, the appropriate instructions for sterilisation;	N			3D Footplate is not intended to be sterilized
215	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(n) if the device is reusable, information on the appropriate processes for allowing reuse, including cleaning, disinfection, packaging and, where appropriate, the validated method of re-sterilisation appropriate to the Member State or Member States in which the device has been placed on the market. Information shall be provided to identify when the device should no longer be reused, e.g. signs of material degradation or the maximum number of allowable reuses;	Y	ISO 16142	2.02.3D Footplate User manual v3.0	Y
216	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(o) an indication, if appropriate, that a device can be reused only if it is reconditioned under the responsibility of the manufacturer to comply with the general safety and performance requirements;	Y			N 3D Footplate is supposed to be manufactured and assembled by the party that decides to use it, we provide a template to use for device and manufacturer identity
217	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(p) if the device bears an indication that it is for single use, information on known characteristics and technical factors known to the manufacturer that could pose a risk if the device were to be re-used. This information shall be based on a specific section of the manufacturer's risk management documentation, where such characteristics and technical factors shall be addressed in detail. If in accordance with point (d) of Section 22.1, no instructions for use are required, this information shall	N			3D Footplate is not single use



218	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(q) for devices intended for use together with other devices and/or general purpose equipment: — information to identify such devices or equipment, in order to obtain a safe combination, and/or — information on any known restrictions to combinations of devices and equipment;	Y	ISO 20417; ISO 15223	2.02.3D Footplate User manual v3.0	Y	
219	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(r) if the device emits radiation for medical purposes: — detailed information as to the nature, type and where appropriate, the intensity and distribution of the emitted radiation, — the means of protecting the patient, user, or other person from unintended radiation during use of the device;	N				3D Footplate emits no radiation
220	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(s) information that allows the user and/or patient to be informed of any warnings, precautions, contra-indications, measures to be taken and limitations of use regarding the device. That information shall, where relevant, allow the user to brief the patient about any warnings, precautions, contra-indications, measures to be taken and limitations of use regarding the device. The information shall cover, where appropriate:	Y	ISO 20417; ISO 15223	2.02.3D Footplate User manual v3.0	Y	
221	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			— warnings, precautions and/or measures to be taken in the event of malfunction of the device or changes in its performance that may affect safety	Y	ISO 20417; ISO 15223	2.02.3D Footplate User manual v3.0; 2.02.3D Footplate Maintenance manual v1.0	Y	
222	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			— warnings, precautions and/or measures to be taken as regards the exposure to reasonably foreseeable external influences or environmental conditions, such as magnetic fields, external electrical and electromagnetic effects, electrostatic discharge, radiation associated with diagnostic or therapeutic procedures, pressure, humidity, or temperature	Y	ISO 20417; ISO 15223	2.02.3D Footplate User manual v3.0	Y	No use in MRI
223	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			— warnings, precautions and/or measures to be taken as regards the risks of interference posed by the reasonably foreseeable presence of the device during specific diagnostic investigations, evaluations, or therapeutic treatment or other procedures such as electromagnetic interference emitted by the device affecting other equipment,	Y	ISO 20417; ISO 15223	2.02.3D Footplate User manual v3.0	Y	No use in MRI
224	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			— if the device is intended to administer medicinal products, tissues or cells of human or animal origin, or their derivatives, or biological substances, any limitations or incompatibility in the choice of substances to be delivered	N				3D Footplate administers no medication or organic materials
225	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			— warnings, precautions and/or limitations related to the medicinal substance or biological material that is incorporated into the device as an integral part of the device; and	N				3D Footplate administers no medication or organic materials
226	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			— precautions related to materials incorporated into the device that contain or consist of CMR substances or endocrine-disrupting substances, or that could result in sensitisation or an allergic reaction by the patient or user;	N				3D Footplate contains no alergic material
227	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(t) in the case of devices that are composed of substances or of combinations of substances that are intended to be introduced into the human body and that are absorbed by or locally dispersed in the human body, warnings and precautions, where appropriate, related to the general profile of interaction of the device and its products of metabolism with other devices, medicinal products and other substances as well as contra- indications, undesirable side-effects and risks relating to overdose;	N				3D Footplate introduces no materials into the human body
228	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(u) in the case of implantable devices, the overall qualitative and quantitative information on the materials and substances to which patients can be exposed;	N				3D Footplate is not an implantable device
229	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(v) warnings or precautions to be taken in order to facilitate the safe disposal of the device, its accessories and the consumables used with it, if any. This information shall cover, where appropriate:	Y	ISO 14971		N	3D Footplate is supposed to be manufactured and assembled by the party that decides to use it, we provide a template to use for device and manufaturere identity
230	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			— infection or microbial hazards such as explants, needles or surgical equipment contaminated with potentially infectious substances of human origin, and	N				3D Footplate is only in contact with the intact skin of the patient
231	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			— physical hazards such as from sharps.  If in accordance with the point (d) of Section 23.1 no instructions for use are required, this information shall be made available to the user upon request;	Y	ISO 14971	5.3D Footplate Hazard Traceability Matrix v1.1; 3.00.3D Footplate DesDev v1.4; 6.3D Footplate preclinical validation; <a href="https://purl.utwente.nl/essays/96365;">https://purl.utwente.nl/essays/96365</a> ; Masih_MScThesis_UTwente;	Y	
232	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(w) for devices intended for use by lay persons, the circumstances in which the user should consult a healthcare professional;	N				3D Footplate is only to be used by trained personnel
233	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(x) for the devices covered by this Regulation pursuant to Article 1(2), information regarding the absence of a clinical benefit and the risks related to use of the device	Y				3D Footplate is not covered by Article 1(2)
234	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(y) date of issue of the instructions for use or, if they have been revised, date of issue and identifier of the latest revision of the instructions for use;	Y		6.3D Footplate preclinical validation	Y	
235	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(z) a notice to the user and/or patient that any serious incident that has occurred in relation to the device should be reported to the manufacturer and the competent authority of the Member State in which the user and/or patient is established;	Y			N	3D Footplate is supposed to be manufactured and assembled by the party that decides to use it, we provide a template to use for device and manufaturere identity
236	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(aa) information to be supplied to the patient with an implanted device in accordance with Article 18;	N				3D Footplate is no implant



237	REQUIREMENTS REGARDING THE INFORMATION SUPPLIED WITH THE DEVICE			(ab) for devices that incorporate electronic programmable systems, including software, or software that are devices in themselves, minimum requirements concerning hardware, IT networks characteristics and IT security measures, including protection against unauthorised access, necessary to run the software as intended	N		3D Footplate incorporates no electronic programmable systems
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