

An.I	ESSENTIAL REQUIREMENTS	A/N	RELEVANT STDEC	INTERNAL RECORDS REFERENCES
	I. GENERAL REQUIREMENTS			
1.	The devices must be designed and manufactured in such a way that, when used under the conditions and for the purposes intended, they will 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 intended 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. This shall include:		IEC 601/1 ISO 9000 ISO 14971:2007 ISO13485:	E3 Risk analysis Reports E4 ISO13471 Annexe A E5 ISO13471 Annexe D Y1 Design History Y2 Design Theory Y 14 Design Changes
1.1	— reducing, as far as possible, the risk of use error due to the ergonomic features of the device and the environment in which the device is intended to be used (design for patient safety), and			
1.2	— consideration of the technical knowledge, experience, education and training and where applicable the medical and physical conditions of intended users (design for lay, professional, disabled or other users).			
2.	The solutions adopted by the manufacturer for the design and construction of the devices must conform to safety principles, taking account of the generally acknowledged state of the art. In selecting the most appropriate solutions, the manufacturer must apply the following principles in the following order: — eliminate or reduce risks as far as possible (inherently safe design and construction), — where appropriate take adequate protection measures including alarms if necessary, in relation to risks that cannot be eliminated, — inform users of the residual risks due to any shortcomings of the protection measures adopted.		ISO 14971:2007 BS EN 980 EN1041	E3 Risk analysis Reports E4 ISO13471 Annexe A E5 ISO13471 Annexe D F5 User Manual
3.	The devices must achieve the performances intended by the manufacturer and be designed, manufactured and packaged in such a way that they are suitable for one or more of the functions referred to in Article 1 (2) (a), as			M3 Spécification. Y15 Validation. H3 Clinical trials.

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	specified by the manufacturer.			Y18 Test Reports. M1 Packaging trials & validation.
4.	The characteristics and performances referred to in Sections 1, 2 and 3 must not be adversely affected to such a degree that the clinical conditions and safety of the patients 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.		BS EN ISO 14971:2007	E3 Risk analysis Reports E4 ISO13471 Annexe A E5 ISO13471 Annexe D H3 Clinical trials.
5.	The devices must be designed, manufactured and packed in such a way that their characteristics and performances during their intended use will not be adversely affected during transport and storage taking account of the instructions and information provided by the manufacturer.			M1 Packaging trials T 2 Material Safety Data Sheet M1 Packaging trials & validation.
6.	Any undesirable side-effect must constitute an acceptable risk when weighed against the performances intended.		BS EN ISO 14971:2010	E3 Risk analysis Reports E4 ISO13471 Annexe A E5 ISO13471 Annexe D H3 Clinical trials.
6a.	Demonstration of conformity with the essential requirements must include a clinical evaluation in accordance with Annex X.			H5 Pre Clinical Trial Data
	II REQUIREMENTS REGARDING DESIGN AND CONSTRUCTION			
7.	Chemical, physical and biological properties			
7.1.	The devices must be designed and manufactured in such a way as to guarantee the characteristics and performances referred to in Section I on the 'General requirements'. Particular attention must be paid to: — the choice of materials used, particularly as regards toxicity and, where appropriate, flammability, — the compatibility between the materials used and biological tissues, cells		ISO9000:2000	T 1 Specifications of Materials T 2 Material Safety Data Sheet Y16 Design Reviews

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	and body fluids, taking account of the intended purpose of the device, — where appropriate, the results of biophysical or modeling research whose validity has been demonstrated beforehand.			
7.2.	The devices must be designed, manufactured and packed in such a way as to minimize the risk posed by contaminants and residues to the persons involved in the transport, storage and use of the devices and to the patients, taking account of the intended purpose of the product. Particular attention must be paid to the tissues exposed and to the duration and frequency of exposure		ISO9000:2000	E3 Risk analysis Reports E4 ISO13471 Annexe A E5 ISO13471 Annexe D H3 Clinical trials. M1 Packaging trials & validation.
7.3.	The devices must be designed and manufactured in such a way that they can be used safely with the materials, substances and gases with which they enter into contact during their normal use or during routine procedures; if the devices are intended to administer medicinal products they must be designed and manufactured in such a way as to be compatible with the medicinal products concerned according to the provisions and restrictions governing these products and that their performance is maintained in accordance with the intended use.			T 1 Specifications of Materials T 2 Material Safety Data Sheet H3 Clinical trials. Y18 Test Reports.
7.4.	Where a device incorporates, as an integral part, a substance which, if used separately, may be considered to be a medicinal product as defined in Article 1 of Directive 2001/83/EC and which is liable to act upon the body with action ancillary to that of the device, the quality, safety and usefulness of the substance must be verified by analogy with the methods specified in Annex I to Directive 2001/83/ EC. For the substances referred to in the first paragraph, the notified body shall, having verified the usefulness of the substance as part of the medical device and taking account of the intended purpose of the device, seek a scientific opinion from one of the competent authorities designated by the Member States or the European Medicines Agency (EMA) acting particularly through its committee in accordance with Regulation (EC) No 726/2004 (1) on the quality and safety of the substance including the clinical benefit/risk profile of the incorporation of the substance into the device. When issuing its			Z8 Medicinal Substances

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	<p>opinion, the competent authority or the EMEA shall take into account the manufacturing process and the data related to the usefulness of incorporation of the substance into the device as determined by the notified body.</p> <p>Where a device incorporates, as an integral part, a human blood derivative, the notified body shall, having verified the usefulness of the substance as part of the medical device and taking into account the intended purpose of the device, seek a scientific opinion from the EMEA, acting particularly through its committee, on the quality and safety of the substance including the clinical benefit/risk profile of the incorporation of the human blood derivative into the device. When issuing its opinion, the EMEA shall take into account the manufacturing process and the data related to the usefulness of incorporation of the substance into the device as determined by the notified body. Where changes are made to an ancillary substance incorporated in a device, in particular related to its manufacturing process, the notified body shall be informed of the changes and shall consult the relevant medicines competent authority (i.e. the one involved in the initial consultation), in order to confirm that the quality and safety of the ancillary substance are maintained. The competent authority shall take into account the data related to the usefulness of incorporation of the substance into the device as determined by the notified body, in order to ensure that the changes have no negative impact on the established benefit/risk profile of the addition of the substance in the medical device. When the relevant medicines competent authority (i.e. the one involved in the initial consultation) has obtained information on the ancillary substance, which could have an impact on the established benefit/risk profile of the addition of the substance in the medical device, it shall provide the notified body with advice, whether this information has an impact on the established benefit/risk profile of the addition of the substance in the medical device or not. The notified body shall take the updated scientific opinion into account in reconsidering its assessment of the conformity assessment procedure.</p>			

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7.5.	<p>The devices must be designed and manufactured in such a way as to reduce to a minimum the risks posed by substances leaking from the device. Special attention shall be given to substances which are carcinogenic, mutagenic or toxic to reproduction, in accordance with Annex I to Council Directive 67/548/EEC of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances (1).</p> <p>If parts of a device (or a device itself) intended to administer and/or remove medicines, body liquids or other substances to or from the body, or devices intended for transport and storage of such body fluids or substances, contain phthalates which are classified as carcinogenic, mutagenic or toxic to reproduction, of category 1 or 2, in accordance with Annex I to Directive 67/548/EEC, these devices must be labelled on the device itself and/or on the packaging for each unit or, where appropriate, on the sales packaging as a device containing phthalates.</p> <p>If the intended use of such devices includes treatment of children or treatment of pregnant or nursing women, the manufacturer must provide a specific justification for the use of these substances with regard to compliance with the essential requirements, in particular of this paragraph, within the technical documentation and, within the instructions for use, information on residual risks for these patient groups and, if applicable, on appropriate precautionary measures.</p>			<p>E6 Liquids & Leakage</p> <p>Z8 Carcinogenic</p> <p>R1 Component Breakdown</p> <p>T1 Specifications of Materials</p> <p>T2 Material Safety Data Sheet</p>
7.6.	Devices must be designed and manufactured in such a way as to reduce, as much as possible, 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.		BS EN ISO 14971:2001	<p>E3 Risk analysis</p> <p>Y16 Design Reviews</p> <p>T1 Material specifications</p>
8.	Infection and microbial contamination			
8.1.	The devices and manufacturing processes must be designed in such a way as to eliminate or reduce as far as possible the risk of infection to the patient, user and third parties. The design must allow easy handling		ISO900:2000	ISO13465 Manufacturing procedures.

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	and, where necessary, minimize contamination of the device by the patient or vice versa during use.			F5 Instructions for use T1 Material specifications
8.2.	Tissues of animal origin must originate from animals that have been subjected to veterinary controls and surveillance adapted to the intended use of the tissues. Notified bodies shall retain information on the geographical origin of the animals. Processing, preservation, testing and handling of tissues, cells and substances of animal origin must be carried out so as to provide optimal security. In particular safety with regard to viruses and other transmissible agents must be addressed by implementation of validated methods of elimination or viral inactivation in the course of the manufacturing process.			Z10 Animal substances
8.3.	Devices delivered in a sterile state must be designed, manufactured and packed in a non-reusable pack and/or according to appropriate procedures to ensure that they are sterile when placed on the market and remain sterile, under the storage and transport conditions laid down, until the protective packaging is damaged or opened.			O Sterilisation
8.4.	Devices delivered in a sterile state must have been manufactured and sterilized by an appropriate, validated method.			O Sterilisation
8.5.	Devices intended to be sterilized must be manufactured in appropriately controlled (e. g. environmental) conditions.			O Sterilisation
8.6.	Packaging systems for non-sterile devices must keep the product without deterioration at the level of cleanliness stipulated and, if the devices are to be sterilized prior to use, minimize the risk of microbial contamination; the packaging system must be suitable taking account of the method of sterilization indicated by the manufacturer.			M1 Packaging trials & validation.
8.7.	The packaging and/or label of the device must distinguish between identical or similar products sold in both sterile and non-sterile condition.			O Sterilisation F7 Labels
9.	Construction and environmental properties			
9.1.	If the device is intended for use in combination with other devices or			

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	equipment, the whole combination, including the connection system must be safe and must not impair the specified performances of the devices. Any restrictions on use must be indicated on the label or in the instructions for use			
9.2.	Devices must be designed and manufactured in such a way as to remove or minimize as far as is possible: — the risk of injury, in connection with their physical features, including the volume/pressure ratio, dimensional and where appropriate ergonomic features, — risks connected with reasonably foreseeable environmental conditions, such as magnetic fields, external electrical influences, electrostatic discharge, pressure, temperature or variations in pressure and acceleration, — the risks of reciprocal interference with other devices normally used in the investigations or for the treatment given, — 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.			D5 EMC E3 Risk analysis Reports E4 ISO13471 Annexe A E5 ISO13471 Annexe D
9.3.	Devices must be designed and manufactured in such a way as to minimize the risks of fire or explosion during normal use and in single fault condition. Particular attention must be paid to devices whose intended use includes exposure to flammable substances or to substances which could cause combustion.			E5 ISO13471 Annexe D
10.	Devices with a measuring function			
10.1.	Devices with a measuring function must be designed and manufactured in such a way as to provide sufficient accuracy and stability within appropriate limits of accuracy and taking account of the intended purpose of the device. The limits of accuracy must be indicated by the manufacturer.		ISO 9001:2000	M3) Specification Y1 Design history Y16 Design reviews H3 Clinical trials Y18 Test reports
10.2.	The measurement, monitoring and display scale must be designed in line with ergonomic principles, taking account of the intended purpose of the			F4 Accessory

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	device.			F7 Labels
10.3.	The measurements made by devices with a measuring function must be expressed in legal units conforming to the provisions of Council Directive 80/181/EEC (1).			F4 Accessory F7 Labels
11.	Protection against radiation			
11.1.	<i>General</i>			
11.1.1.	Devices shall be designed and manufactured in such a way that exposure of patients, users and other persons to radiation shall be reduced as far as possible compatible with the intended purpose, whilst not restricting the application of appropriate specified levels for therapeutic and diagnostic purposes.			Z12 No Ionizing radiation
11.2.	<i>. Intended radiation</i>			Z12 No Ionizing radiation
11.2.1.	Where devices are designed to emit hazardous levels of radiation necessary for a specific medical purpose the benefit of which is considered to outweigh the risks inherent in the emission, it must be possible for the user to control the emissions. Such devices shall be designed and manufactured to ensure reproducibility and tolerance of relevant variable parameters.			Z12 No Ionizing radiation
11.2.2.	Where devices are intended to emit potentially hazardous, visible and/ or invisible radiation, they must be fitted, where practicable, with visual displays and/or audible warnings of such emissions			Z12 No Ionizing radiation
11.3.	<i>Unintended radiation</i>			Z12 No Ionizing radiation
11.3.1.	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.			Z12 No Ionizing radiation
11.4.	<i>Instructions</i>			
11.4.1.	The operating instructions for devices emitting radiation must give detailed information as to the nature of the emitted radiation, means of protecting the patient and the user and on ways of avoiding misuse and of eliminating the risks inherent in installation.			Z12 No Ionizing radiation

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11.5.	<i>Ionizing radiation</i>			Z12 No Ionizing radiation
11.5.1.	Devices intended to emit ionizing radiation must be designed and manufactured in such a way as to ensure that, where practicable, the quantity, geometry and quality of radiation emitted can be varied and controlled taking into account the intended use.			Z12 No Ionizing radiation
11.5.2.	Devices emitting ionizing radiation intended for diagnostic radiology shall be designed and manufactured in such a way as to achieve appropriate image and/or output quality for the intended medical purpose whilst minimizing radiation exposure of the patient and user.			Z12 No Ionizing radiation
11.5.3.	Devices emitting ionizing radiation, 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 and energy and where appropriate the quality of radiation.			Z12 No Ionizing radiation
12.	Requirements for medical devices connected to or equipped with an energy source			
12.1.	Devices incorporating electronic programmable systems must be designed to ensure the repeatability, reliability and performance of these systems according to the intended use. In the event of a single fault condition (in the system) appropriate means should be adopted to eliminate or reduce as far as possible consequent risks.			Y19 Software validation
12.1 a	For devices which incorporate software or which are medical software in themselves, the software must be validated according to the state of the art taking into account the principles of development life cycle, risk management, validation and verification			Y19 Software validation
12.2.	Devices where the safety of the patients depends on an internal power supply must be equipped with a means of determining the state of the power supply.			F1 Description of device F5 Instructions for Use
12.3.	Devices where the safety of the patients depends on an external power supply must include an alarm system to signal any power failure.			F1 Description of device F5 Instructions for Use
12.4.	Devices intended to monitor one or more clinical parameters of a patient must be equipped with appropriate alarm systems to alert the user of			F1 Description of device F5 Instructions for Use

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	situations which could lead to death or severe deterioration of the patient's state of health.			
12.5.	Devices must be designed and manufactured in such a way as to minimize the risks of creating electromagnetic fields which could impair the operation of other devices or equipment in the usual environment.			D5 EMC report
12.6.	<i>Protection against electrical risks</i> Devices must be designed and manufactured in such a way as to avoid, as far as possible, the risk of accidental electric shocks during normal use and in single fault condition, provided the devices are installed correctly.		IEC 601/1 ISO 9000 ISO 14971:2007 ISO13485:	E3 Risk analysis Reports E4 ISO13471 Annexe A E5 ISO13471 Annexe D Y1 Design History Y2 Design Theory
12.7.	<i>Protection against mechanical and thermal risks</i>			E3 Risk analysis Reports E4 ISO13471 Annexe A E5 ISO13471 Annexe D
12.7. 1.	Devices must be designed and manufactured in such a way as to protect the patient and user against mechanical risks connected with, for example, resistance, stability and moving parts.			E3 Risk analysis Reports E4 ISO13471 Annexe A E5 ISO13471 Annexe D
12.7. 2.	Devices must 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.			E3 Risk analysis Reports E4 ISO13471 Annexe A E5 ISO13471 Annexe D
12.7. 3.	Devices must 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.			E3 Risk analysis Reports E4 ISO13471 Annexe A E5 ISO13471 Annexe D
12.7. 4.	Terminals and connectors to the electricity, gas or hydraulic and pneumatic energy supplies which the user has to handle must be designed and			

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	constructed in such a way as to minimize all possible risks.			
12.7.5.	Accessible parts of the devices (excluding the parts or areas intended to supply heat or reach given temperatures) and their surroundings must not attain potentially dangerous temperatures under normal use.			E3 Risk analysis Reports E4 ISO13471 Annexe A E5 ISO13471 Annexe D
12.8.	<i>Protection against the risks posed to the patient by energy supplies or substances</i>			
12.8.1.	Devices for supplying the patient with energy or substances must be designed and constructed in such a way that the flow-rate can be set and maintained accurately enough to guarantee the safety of the patient and of the user.			F1 Description of device F5 Instructions for Use
12.8.2	Devices must be fitted with the means of preventing and/or indicating any inadequacies in the flow-rate which could pose a danger. Devices must incorporate suitable means to prevent, as far as possible, the accidental release of dangerous levels of energy from an energy and/or substance source.			F1 Description of device F5 Instructions for Use
12.9.	<i>The function of the controls and indicators must be clearly specified on the devices.</i> Where a device bears instructions required for its operation or indicates operating or adjustment parameters by means of a visual system, such information must be understandable to the user and, as appropriate, the patient.			F1 Description of device F5 Instructions for Use
13.	Information supplied by the manufacturer			
13.1.	Each device must be accompanied by the information needed to use it safely and properly, taking account of the training and knowledge of the potential users, and to identify the manufacturer. This information comprises the details on the label and the data in the		BS EN 980. EN1041	F1 Description of device F5 Instructions for Use F7 labels

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	instructions for use. As far as practicable and appropriate, the information needed to use the device safely must be set out on the device itself and/or on the packaging for each unit or, where appropriate, on the sales packaging. If individual packaging of each unit is not practicable, the information must be set out in the leaflet supplied with one or more devices. Instructions for use must be included in the packaging for every device. By way of exception, no such instructions for use are needed for devices in Class I or IIa if they can be used safely without any such instructions.			
13.2.	Where appropriate, this information should take the form of symbols. Any symbol or identification colour used must conform to the harmonized standards. In areas for which no standards exist, the symbols and colours must be described in the documentation supplied with the device.			F7 labels
13.3.	<i>The label</i> must bear the following particulars:			
(a)	the name or trade name and address of the manufacturer. For devices imported into the Community, in view of their distribution in the Community, the label, or the outer packaging, or instructions for use, shall contain in addition the name and address of the authorised representative where the manufacturer does not have a registered place of business in the Community;			F7 labels
(b)	the details strictly necessary to identify the device and the contents of the packaging especially for the users;		BS EN 980 EN1041	F7 labels
(c)	where appropriate, the word 'STERILE';			F7 labels
(d)	where appropriate, the batch code, preceded by the word 'LOT', or the serial number;			F7 labels (F) User manual (F) Serial number label
(e)	where appropriate, an indication of the date by which the device should be used, in safety, expressed as the year and month; (e). This indication may be included in the batch or serial number;			F7 labels
(f)	where appropriate, an indication that the device is for single use. A			F7 labels

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	manufacturer's indication of single use must be consistent across the Community;			
(g)	if the device is custom-made, the words 'custom-made device';			F7 labels
(h)	if the device is intended for clinical investigations, the words 'exclusively for clinical investigations';			F7 labels
(i)	any special storage and/or handling conditions;			F7 labels
(j)	any special operating instructions;		BS EN 980	(F) User manual
(k)	any warnings and/or precautions to take;		BS EN 980	(F) User manual
(l)	year of manufacture for active devices other than those covered by (e). This indication may be included in the batch or serial number;			F7 labels
m)	where applicable, method of sterilization;			O Sterilisation
n)	in the case of a device within the meaning of Article 1(4a), an indication that the device contains a human blood derivative.			F7 labels
13.4.	If the intended purpose of the device is not obvious to the user, the manufacturer must clearly state it on the label and in the instructions for use.			(F) User manual
13.5.	Wherever reasonable and practicable, the devices and detachable components must be identified, where appropriate in terms of batches, to allow all appropriate action to detect any potential risk posed by the devices and detachable components.			F7 labels
13.6.	Where appropriate, the instructions for use must contain the following particulars:			F7
(a)	the details referred to in Section 13.3, with the exception of (d) and (e);		BS EN 980	(F) User manual

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(b)	the performances referred to in Section 3 and any undesirable side effects;			
(c)	if the device must be installed with or connected to other medical devices or equipment in order to operate as required for its intended purpose, sufficient details of its characteristics to identify the correct devices or equipment to use in order to obtain a safe combination;		BS EN 980 EN1041	F User manual
(d)	all the information needed to verify whether the device is properly installed and can operate correctly and safely, plus details of the nature and frequency of the maintenance and calibration needed to ensure that the devices operate properly and safely at all times;			F User manual
(e)	where appropriate, information to avoid certain risks in connection with implantation of the device;			F User manual
(f)	information regarding the risks of reciprocal interference posed by the presence of the device during specific investigations or treatment;			F User manual
(g)	the necessary instructions in the event of damage to the sterile packaging and, where appropriate, details of appropriate methods of resterilization;			F User manual
(h)	if the device is reusable, information on the appropriate processes to allow reuse, including cleaning, disinfection, packaging and, where appropriate, the method of sterilization of the device to be resterilized, and any restriction on the number of reuses. Where devices are supplied with the intention that they be sterilized before use, the instructions for cleaning and sterilization must be such that, if correctly followed, the device will still comply with the requirements in Section I. If the device bears an indication that the device is for single use, information			F User manual F7 Labels O Sterilisation

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	on known characteristics and technical factors known to the manufacturer that could pose a risk if the device were to be re-used. If in accordance with Section 13.1 no instructions for use are needed, the information must be made available to the user upon request;			
(i)	details of any further treatment or handling needed before the device can be used (for example, sterilization, final assembly, etc.);			O Sterilisation
(j)	in the case of devices emitting radiation for medical purposes, details of the nature, type, intensity and distribution of this radiation.			Z11 No Ionizing radiation
	The instructions for use must also include details allowing the medical staff to brief the patient on any contra-indications and any precautions to be taken. These details should cover in particular:			F User manual
(k)	precautions to be taken in the event of changes in the performance of the device;			F User manual
(l)	precautions to be taken as regards exposure, in reasonably foreseeable environmental conditions, to magnetic fields, external electrical influences, electrostatic discharge, pressure or variations in pressure, acceleration, thermal ignition sources, etc.;			F User manual
(m)	adequate information regarding the medicinal product or products which the device in question is designed to administer, including any limitations in the choice of substances to be delivered;			Z8 Medicinal products
(n)	precautions to be taken against any special, unusual risks related to the disposal of the device;			F User instructions F7 Labels
(o)	medicinal substances, or human blood derivatives incorporated into the			Z8 Medicinal products

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	device as an integral part in accordance with Section 7.4;			
(p)	degree of accuracy claimed for devices with a measuring function;			F User instructions M3 Specifications
(q)	date of issue or the latest revision of the instructions for use.			F User instructions