Essential Principles of Safety and Performance of Medical Devices

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EP Checklist control number: Product Owner Name: Product Name:

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| General Requirements | | | |
| 1. Medical devices shall be designed and manufactured in such a way that, when | | | |
| used under the conditions and for the purposes intended and, where applicable, | | | |
| by virtue of the technical knowledge, experience, education or training of | | | |
| intended users, 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 the use of the medical | | | |
| device for its intended purpose constitute acceptable risks when weighed against | | | |
| the intended benefits to the patient and are compatible with a high level of | | | |
| protection of health and safety. | | | |
| 2. The solutions adopted by the product owner for the design and manufacture | | | |
| of the medical devices shall conform to safety principles, taking account of the | | | |
| generally acknowledged state of the art. In selecting an appropriate solution for | | | |
| the design and manufacture of a medical device so as to minimise any risks | | | |
| associated with the use of the medical device, the product owner shall apply the | | | |
| following principles: | | | |

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| \square identify any hazard and associated risk arising from the use of the medical | | | |
| device for its intended purpose, and any foreseeable misuse of the medical | $< \vee$ | | |
| device, | | | |
| \Box eliminate or reduce risks as far as reasonably practicable through inherently | | | |
| safe design and manufacture, | | | |
| \Box if appropriate, ensure that adequate protective measures are taken, including | | | |
| alarms if necessary, in relation to any risk that cannot be eliminated, and | | | |
| \Box inform users of any residual risks. safe design and manufacture, | | | |
| \Box if appropriate, ensure that adequate protective measures are taken, including | | | |
| alarms if necessary, in relation to any risk that cannot be eliminated, and | | | |
| inform users of any residual risks. | | | |
| 3. Medical devices shall achieve the performance intended by the product owner | | | |
| and be designed, manufactured and packaged in such a way that they are | | | |
| suitable for one or more of the functions within the scope of the definition of a | | | |
| medical device. | | | |
| 4. The characteristics and performances referred to in Clauses 1, 2 and 3 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 medical device, as indicated by the product owner, when the | | | |
| medical device is subjected to the stresses which can occur during normal | | | |
| conditions of use and has been properly maintained and calibrated, if | | | |
| appropriate, in accordance with the product owner's instructions. | | | |

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| 5. The medical devices shall be designed, manufactured and packed in such a | | | |
| way that their characteristics and performances, when it is being used for its | $< \vee$ | | |
| intended purpose, will not be adversely affected during its transport and storage, | | | |
| if the transport and storage is carried out in accordance with the instructions and | | | |
| information provided by the product owner. | | | |
| 6. The benefits must be determined to outweigh any undesirable side effects for | | | |
| the performances intended. | | | |
| 7. Medical devices shall require clinical evidence, appropriate for the use and | | | |
| classification of the medical device, demonstrating that the medical device | | | |
| complies with the applicable provisions of the essential principles. A clinical | | | |
| evaluation shall be conducted. | | | |
| Design and Manufacturing Requirements | | | |
| 8. Chemical, physical and biological properties | | | |
| 8.1 The medical devices shall be designed and manufactured in such a way as to | | | |
| ensure the characteristics and performance requirements referred to in Clauses 1 | | | |
| to 6 of the 'General Requirements' are met. Particular attention shall be paid to: | | | |
| \Box the choice of materials used, particularly as regards toxicity and, where | | | |
| appropriate, flammability, | | | |
| \Box the chemical and physical properties of the material used, | | | |

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| igsquirin the compatibility between the materials used and biological tissues, cells, | | | |
| body fluids, and specimens, taking account of the intended purpose of the | < $>$ | | |
| medical device, | | | |
| \Box the choice of materials used shall reflect, where appropriate, matters such as | | | |
| hardness, wear and fatigue strength. | | | |
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| 8.2 The medical devices shall be designed, manufactured and packed in such a | | | |
| way as to minimise the risk posed by contaminants and residues to the persons | | | |
| involved in the transport, storage and use of the medical devices and to patients, | | | |
| taking account of the intended purpose of the product. In minimising risks, | | | |
| particular consideration shall be given to the duration and frequency of any | | | |
| tissue exposure associated with the transport, storage or use of the medical | | | |
| device. | | | |
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| 8.3 The medical devices shall 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 | | | |
| medical 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 according to the provisions and restrictions | | | |
| governing these medicinal products and that the performance of the medicinal | | | |
| product is maintained in accordance with the intended purpose of the medicinal | | | |
| product. | | | |
| 8.4 Where a medical device incorporates, as an integral part, a substance which, if | | | |
| used separately, may be considered to be a medicinal product as defined in the | | | |
| relevant legislation that applies and which is liable to act upon the body with | | | |
| action ancillary to that of the medical device, the safety, quality and performance | | | |
| of the medical device as a whole shall be verified, as well as the safety, quality | | | |
| and efficacy of the incorporated substance in relation to the intended purpose of | | | |
| the medical device. For the purposes of this paragraph, "medicinal product" | | | |
| includes any stable derivative of human blood or human plasma. | | | |
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| 8.5 The medical devices shall be designed and manufactured in such a way as to | | | |
| reduce as far as reasonably practicable and appropriate the risks posed by | < $>$ | | |
| substances that may leach or leak from the medical device. | | | |
| 8.6 Medical devices shall be designed and manufactured in such a way as to | | | |
| reduce as far as reasonably practicable and appropriate risks posed by the | | | |
| unintentional ingress or egress of substances into or from the medical device | | | |
| taking into account the nature of the environment in which the medical device is | | | |
| intended to be used. | | | |
| 9. Infection and microbial contamination | | | |
| 9.1 The medical devices and manufacturing processes shall be designed in such a | | | |
| way as to eliminate or to reduce as far as reasonably practicable and appropriate | | | |
| the risk of infection to any persons. The design shall: | | | |
| allow easy handling, and, where necessary: | | | |
| \Box reduce as far as reasonably practicable and appropriate any microbial leakage | | | |
| from the medical device and/or microbial exposure during use, | | | |
| \square if appropriate, minimises contamination of the medical device, or specimen | | | |
| where applicable, by the patient, user or other person, or contamination of the | | | |
| patient by the medical device, during its use. | | | |

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| 9.2 Where a medical device incorporates substances of biological origin, the risk | | | |
| of infection must be reduced as far as reasonably practicable and appropriate by | < $>$ | | |
| selecting appropriate sources, donors and substances and by using, as | | | |
| appropriate, validated inactivation, conservation, test and control procedures. | | | |
| This may not apply to certain IVD medical device if the activity of the virus and | | | |
| other transmissible agent are integral to the intended purpose of the IVD medical | | | |
| device or when such elimination or inactivation process would compromise the | | | |
| performance of the IVD medical device. | | | |
| 9.3 Products incorporating non-viable tissues, cells and substances of animal | | | |
| origin falling within the definition of a medical device, shall originate from animals | | | |
| that have been subjected to veterinary controls and surveillance adapted to the | | | |
| intended purpose of the tissues. The product owner is required to retain | | | |
| information on the geographical origin of the animals. Processing, preservation, | | | |
| testing and handling of tissues, cells and substances of animal origin shall be | | | |
| carried out so as to provide optimal safety. In particular, safety with regard to | | | |
| viruses and other transmissible agents shall be addressed by implementation of | | | |
| validated methods of elimination or inactivation in the course of the | | | |
| manufacturing process. This may not apply to certain IVD medical device if the | | | |
| activity of the virus and other transmissible agent are integral to the intended | | | |

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| purpose of the IVD medical device or when such elimination or inactivation | | | |
| process would compromise the performance of the IVD medical device. | < | | |
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| 9.4 For products incorporating cells, tissues and derivatives of microbial or | | | |
| recombinant origin falling within the definition of a medical device, the selection | | | |
| of sources/donors, the processing, preservation, testing and handling of cells, | | | |
| tissues and derivatives of such origin shall be carried out so as to provide optimal | | | |
| safety. In particular, safety with regard to viruses and other transmissible agents | | | |
| shall be addressed by implementation of validated methods of elimination or | | | |
| inactivation in the course of the manufacturing process. This may not apply to | | | |
| certain IVD medical device if the activity of the virus and other transmissible | | | |
| agent are integral to the intended purpose of the IVD medical device or when | | | |
| such elimination or inactivation process would compromise the performance of | | | |
| the IVD medical device. | | | |

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| 9.5 For products incorporating non-viable human tissues, cells and substances | | | |
| falling within the definition of an IVD medical device, the selection of sources, | < $>$ | | |
| donors and/or substances of human origin, the processing, preservation, testing | | | |
| and handling of tissues, cells and substances of such origin shall be carried out so | | | |
| as to provide optimal safety. In particular, safety with regard to viruses and other | | | |
| transmissible agents shall be addressed by implementation of validated methods | | | |
| of elimination or inactivation in the course of the manufacturing process. This | | | |
| may not apply to certain IVD medical device if the activity of the virus and other | | | |
| transmissible agent are integral to the intended purpose of the IVD medical | | | |
| device or when such elimination or inactivation process would compromise the | | | |
| performance of the IVD medical device. | | | |
| 9.6 Medical devices labelled as having a special microbiological state shall be | | | |
| designed, manufactured and packed to ensure they remain so when placed on | | | |
| the market and remain so under the transport and storage conditions specified by | | | |
| the product owner. | | | |
| 9.7 Medical devices delivered in a sterile state shall be designed, manufactured | | | |
| and packed to ensure that they remain sterile when placed on the market and | | | |
| remain sterile, under the transport and storage conditions indicated by the | | | |
| product owner. | | | |

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| 9.8 Medical devices labelled either as sterile or as having a special microbiological | | | |
| state shall have been processed, manufactured and, if applicable, sterilised by | < $>$ | | |
| appropriate, validated methods. | | | |
| 9.9 Medical devices intended to be sterilised shall be manufactured in | | | |
| appropriately controlled (e.g. environmental) conditions. | | | |
| 9.10 Packaging systems for non-sterile medical devices shall keep the product at | | | |
| the level of cleanliness stipulated and, if the medical 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 | | | |
| product owner. The medical device shall be produced in appropriately controlled | | | |
| conditions. | | | |
| 9.11 The packaging and/or label of the medical device shall distinguish between | | | |
| identical or similar products placed on the market in both sterile and non-sterile | | | |
| condition. | | | |
| 10. Manufacturing and environmental properties | | | |
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| 10.1 If the medical device is intended for use in combination with other medical | | | |
| devices or equipment, the whole combination, including the connection system | < $<$ | | |
| shall be safe and shall not impair the specified performance of the medical | | | |
| devices, or equipment with which it is used. Any restrictions on use applying to | | | |
| such combinations shall be indicated on the label and/or in the instructions for | | | |
| use. | | | |
| 10.2 Medical devices shall be designed and manufactured in such a way as to | | | |
| remove or reduce as far as reasonably practicable and appropriate: | | | |
| \Box the risk of injury, in connection with their physical features, including the | | | |
| volume/pressure ratio, dimensional and where appropriate ergonomic features; | | | |
| \square risks connected with reasonably foreseeable external influences or | | | |
| environmental conditions, such as magnetic fields, external electrical and | | | |
| electromagnetic effects, electrostatic discharge, pressure, humidity, temperature | | | |
| or variations in pressure and acceleration; | | | |
| \Box the risks connected to their use in conjunction with materials, substances and | | | |
| gases with which they may come into contact during normal conditions of use; | | | |
| \Box the risks of accidental penetration of substances into the medical device; | | | |
| \Box the risk of incorrect identification of specimens; | | | |

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| \Box the risks of reciprocal interference with other medical devices normally used | | | |
| in the investigations or for the treatment given; | < $>$ | | |
| \Box 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. | | | |
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| 10.3 Medical 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 medical devices whose intended | | | |
| purpose includes exposure to or use in association with flammable substances or | | | |
| substances which could cause combustion. | | | |
| 10.4 Medical devices must be designed and manufactured in such a way as to | | | |
| facilitate the safe disposal of any waste substances. | | | |
| 11. Medical devices with a diagnostic or measuring function | | | |
| 11.1 Medical 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 of the medical device. The limits of accuracy, | | | |
| precision and stability shall be indicated by the product owner. | | | |

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| 11.2 Medical devices 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. In particular the design | | | |
| shall address the sensitivity, specificity, trueness, repeatability, reproducibility, | | | |
| control of known relevant interference and limits of detection, as appropriate. | | | |
| 11.3 Where the performance of medical devices depends on the use of | | | |
| calibrators and/or control materials, the traceability of values assigned to such | | | |
| calibrators and/or control materials shall be assured through a quality | | | |
| management system. | | | |
| 11.4 Any measurement, monitoring or display scale shall be designed and | | | |
| manufactured in line with ergonomic principles, taking into account of the | | | |
| intended purpose of the medical device. | | | |
| 11.5 Wherever possible values expressed numerically shall be in commonly | | | |
| accepted, standardised units, and understood by the users of the medical device. | | | |
| 12. Protection against radiation | | | |
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| 12.1 General | | | |
| Medical devices shall be designed and manufactured and packaged in such a way | < $>$ | | |
| that exposure of patients, users and other persons to any emitted radiation shall | | | |
| be reduced as far as practicable and appropriate, compatible with the intended | | | |
| purpose, whilst not restricting the application of appropriate specified levels for | | | |
| therapeutic and diagnostic purposes. | | | |
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| 12.2 Intended radiation | | | |
| 12.2.1 Where medical devices are designed to emit hazardous, or potentially | | | |
| hazardous, levels of visible and/or invisible radiation necessary for a specific | | | |
| medical purpose the benefit of which is considered to outweigh the risks inherent | | | |
| in the emission, it shall be possible for the user to control the emissions. Such | | | |
| medical devices shall be designed and manufactured to ensure reproducibility of | | | |
| relevant variable parameters within an acceptable tolerance. | | | |
| 12.2.2 Where medical devices are intended to emit potentially hazardous, visible | | | |
| and/or invisible radiation, they shall be fitted, where practicable, with visual | | | |
| displays and/or audible warnings of such emissions. | | | |
| 12.3 Unintended radiation | | | |
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| Medical 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 practicable and appropriate. | | | |
| 12.4 Instructions for use | | | |
| The operating instructions for medical devices emitting radiation shall 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 | | | |
| 12.5 Ionising radiation | | | |
| 12.5.1 Medical devices intended to emit ionising radiation shall be designed and | | | |
| manufactured in such a way as to ensure that, where practicable, the quantity, | | | |
| geometry and energy distribution (or quality) of radiation emitted can be varied | | | |
| and controlled taking into account the intended purpose. | | | |
| 12.5.2 Medical devices emitting ionising 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 minimising | | | |
| radiation exposure of the patient and user. | | | |
| 12.5.3 Medical devices emitting ionising radiation, intended for therapeutic | | | |
| radiology shall be designed and manufactured in such a way as to enable reliable | | | |

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| monitoring and control of the delivered dose, the beam type and energy and | | | |
| where appropriate the energy distribution of the radiation beam. | | | |
| 13. Requirements for medical devices connected to or equipped with an | | | |
| energy source | | | |
| 13.1 Medical devices incorporating electronic programmable systems, including | | | |
| software, shall be designed to ensure the repeatability, reliability and | | | |
| performance of these systems according to the intended purpose. In the event of | | | |
| a single fault condition in the system, appropriate means shall be adopted to | | | |
| eliminate or reduce as far as practicable and appropriate consequent risks. | | | |
| 13.2 For medical devices which incorporate software or which are medical | | | |
| software in themselves, the software shall be validated according to the state of | | | |
| the art taking into account the principles of development lifecycle, risk | | | |
| management, validation and verification. | | | |
| 13.3 Medical devices where the safety of the patients depends on an internal | | | |
| power supply shall be equipped with a means of determining the state of the | | | |
| power supply. | | | |
| 13.4 Medical devices where the safety of the patients depends on an external | | | |
| power supply shall include an alarm system to signal any power failure. | | | |

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| 13.5 Medical 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. | | | |
| 13.6 Medical devices shall be designed and manufactured in such a way as to | | | |
| reduce as far as practicable and appropriate the risks of creating | | | |
| electromagnetic interference which could impair the operation of this or other | | | |
| medical devices or equipment in the vicinity where the medical device is located. | | | |
| 13.7 Medical devices shall be designed and manufactured in such a way as to | | | |
| provide an adequate level of intrinsic immunity to electromagnetic disturbance to | | | |
| enable them to operate as intended. | | | |
| 13.8 Protection against electrical risks | | | |
| A medical device shall be designed and manufactured in a way that ensures that, | | | |
| as far as possible, a patient, or any other person is protected against the risk of | | | |
| accidental electric shock when it is installed and maintained as indicated by the | | | |
| product owner, is being used under normal conditions of use and in the event of | | | |
| a single fault condition. | | | |
| 14. Protection against mechanical risks | | | |

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| 14.1 Medical devices shall be designed and manufactured in such a way as to | | | |
| protect the patient and user against mechanical risks associated with the use of | < $>$ | | |
| the medical device. | | | |
| 14.2 Medical devices shall be designed and manufactured in such a way as to | | | |
| reduce to the lowest practicable level the risks arising from vibration generated | | | |
| by the medical 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. | | | |
| 14.3 Medical devices shall be designed and manufactured in such a way as to | | | |
| reduce to the lowest practicable 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. | | | |
| 14.4 Terminals and connectors to the electricity, gas or hydraulic and pneumatic | | | |
| energy supplies which the user has to handle shall be designed and constructed | | | |
| in such a way as to minimise all possible risks. | | | |
| 14.5 Accessible parts of the medical 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 use. | | | |

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| 15. Protection against the risks posed to the patient by supplied energy or | | | |
| substances | < $<$ | | |
| 15.1 Medical devices for supplying the patient with energy or substances shall be | | | |
| designed and constructed in such a way that the delivered rate and/or amount | | | |
| can be set and maintained accurately enough to guarantee the safety of the | | | |
| patient and of the user. | | | |
| 15.2 Medical devices shall be fitted with the means of preventing and/or | | | |
| indicating any inadequacies in the delivered rate and/or amount which could | | | |
| pose a danger. Medical devices shall incorporate suitable means to prevent, as | | | |
| far as possible, the accidental release of dangerous levels of energy from an | | | |
| energy and/or substance source. | | | |
| 15.3 The function of the controls and indicators shall be clearly specified on the | | | |
| medical devices. Where a medical 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. | | | |
| 16. Active implantable medical devices | | | |
| 16.1 An active implantable medical device shall incorporate, display, emit or | | | |
| exhibit a code or unique characteristic that can be used to identify:- | | | |

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| \Box the type of medical device; | | | |
| \Box the product owner of the medical device; and | < $<$ | | |
| \Box the year of manufacture of the medical device. | | | |
| 16.2 The identifier shall be readable without the need for surgery to the person | | | |
| in whom the medical device is implanted. | | | |
| 17. Protection against the risks posed to the patient for medical devices for | | | |
| self-testing or self-administration | | | |
| 17.1 Such medical devices 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 users and the influence resulting from | | | |
| variation that can reasonably be anticipated in user's technique and environment. | | | |
| The information and instructions provided by the product owner shall be easy for | | | |
| the user to understand and apply. | | | |
| 17.2 Such medical devices shall be designed and manufactured in such a way as | | | |
| to reduce as far as practicable the risk of error in the handling of the medical | | | |
| device and, if applicable, the specimen, and also in the interpretation of results. | | | |
| 17.3 Such medical devices shall, where reasonably possible, include a procedure | | | |
| by which the user can verify that, at the time of use, the medical device will | | | |
| perform as intended by the product owner. | | | |

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| 18. Information supplied by the product owner | | | |
| The following information shall be provided with a medical device, having regard | < $>$ | | |
| to the training and knowledge of potential users of the medical device: | | | |
| • information identifying the medical device; | | | |
| • information identifying the product owner of the medical device; | | | |
| information explaining how to use the medical device safely | | | |
| 19. Clinical Investigation | | | |
| Clinical investigations on human subjects shall be carried out in accordance with | | | |
| the spirit of the Helsinki Declaration. This includes every step in the clinical | | | |
| investigation from first consideration of the need and justification of the study to | | | |
| publication of the results. Clinical investigations on human subjects shall be | | | |
| carried out in accordance with the spirit of the Helsinki Declaration. This includes | | | |
| every step in the clinical investigation from first consideration of the need and | | | |
| justification of the study to publication of the results. | | | |

EP Checklist prepared by (name/signature/date):

EP Checklist approved by (name/signature/date):