# Understanding the requirements of PMCF

• Considerations for Manufacturers



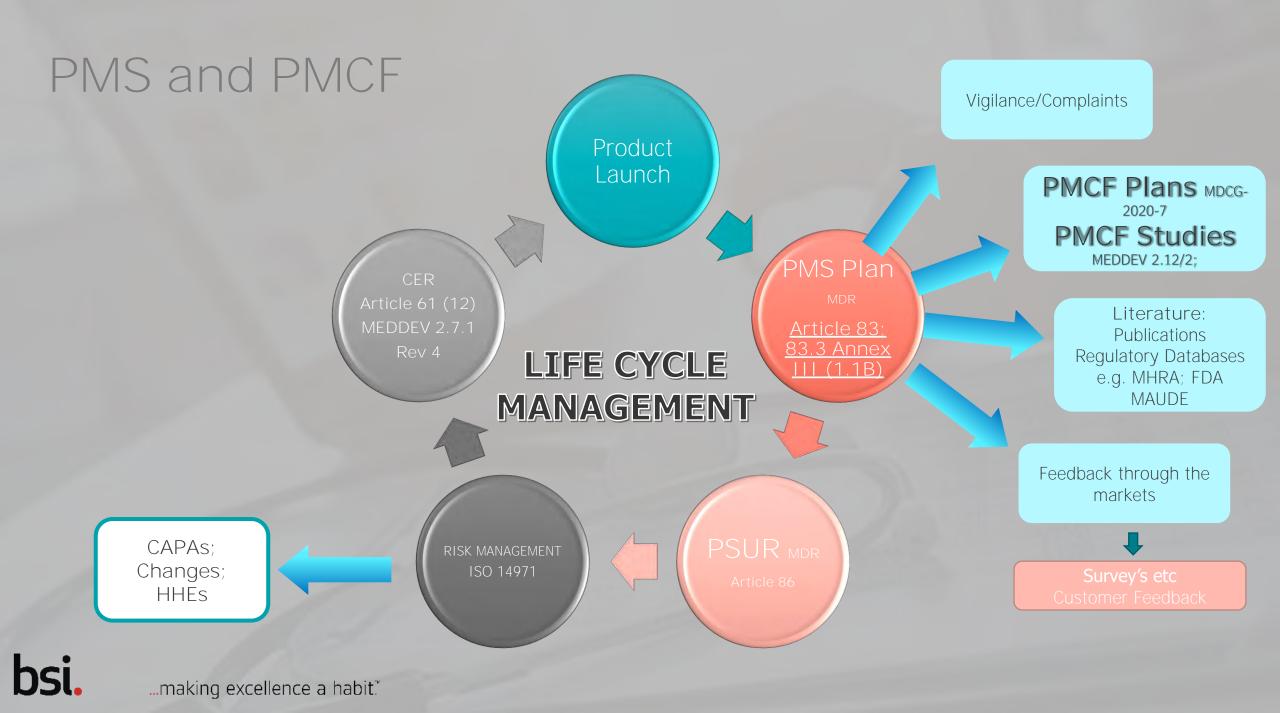
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# Topics Covered in this presentation;

- MDR Requirements
- MDCG Guidance
- PMCF Plans
- Types of PMCF
- PMCF Reports
- Other Considerations
- Questions





# PMS and PMCF requirements: where are they defined?

#### Medical Devices Regulation

- Chapter II: Making Available On The Market And Putting Into Service Of Devices, Obligations Of Economic Operators, Reprocessing, Ce Marking, Free Movement
- Chapter VI: Clinical Evaluation And Clinical Investigations
- Chapter VII: Post-Market Surveillance, Vigilance and Market Surveillance
- Annex III: Technical Documentation on Post-Market Surveillance
- Annex XIV (Part B): Post Market Clinical Follow Up
- Annex XV (Article 74)
- Annex XIII [5]: Custom made devices
- ANNEX IX: Conformity Assessment Based On A Quality Management System And On Assessment Of Technical Documentation

#### Guidance documents

- MedDev 2.12/2 (rev 2) Post Market Clinical Follow Up Studies: A Guide for Manufacturers and Notified Bodies
- MEDDEV 2.7.1/4 Clinical Evaluation: A Guide for Manufacturers and Notified Bodies

- MDCG 2020-7: PMCF Plan template. A guide for manufacturers and notified bodies
- MDCG 2020-8: PMCF Evaluation Report. A guide for manufacturers and notified bodies
- MDCG 2021-6 Q&A on Clinical Investigations

https://ec.europa.eu/health/md\_sector/new\_regulations/guidance\_en



# MDR Definition: Article 2(48)

Clinical data: Information concerning safety or performance that is generated from the use of a device and is sourced from:

Clinical investigation of devices concerned

Clinical investigations or other studies reported in scientific literature of a device for which equivalence to the device in question is demonstrated

Reports published in peer reviewed scientific literature on other clinical experience of either the device in question or a device for which equivalence is claimed and demonstrated

Clinically relevant information coming from the post market surveillance, in particular post market clinical follow up

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Does PMCF under the MDR mean the same as PMCF under the Directives?

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## MDD

Clinical evaluation: methodological, <u>ongoing</u> <u>procedure</u> to collect, appraise, analyse <u>clinical data</u> to evaluate whether there is <u>sufficient clinical evidence</u> to confirm compliance with relevant essential requirements for <u>safety and performance</u> when using the device according to the <u>manufacturer's Instructions for Use</u>.

#### MDR

Clinical evaluation: a systematic and planned process to <u>continuously</u> generate, collect, analyse and assess the clinical data pertaining to a device in order to verify the <u>safety and</u> <u>performance</u>, including <u>clinical benefits</u>, of the device when used as <u>intended by the</u> <u>manufacturer (Article 2 (44)</u>

#### Annex X and Annex 7 requirements

• "The clinical evaluation and its documentation must be actively updated with data obtained from the postmarket surveillance. Where post-market clinical follow-up as part of the post-market surveillance plan for the device is not deemed necessary, this must be duly justified and documented."

#### MDR Chapter VII requirements:

"For each device, manufacturers shall plan, establish, document, implement, maintain and update a post-market surveillance system in a manner that is proportionate to the risk class and appropriate for the type of device."

Annex III 1.1b says PMS should include: **"a PMCF plan"** as referred to in Part B of Annex XIV, or a justification as to why a PMCF is not applicable."

# PMCF Plans

ledical Device Coordination Group Document	MDCG 2020-7
MDCG 2020-7	
Post-market clinical follow-up (PMCF)	Plan Template
A guide for manufacturers and notified	d bodies
April 2020	

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PMCF Plan

• MEDDEV 2.12/2

Documented, proactive, organised methods and procedures set up by the manufacturer to collect clinical data based on the use of a CEmarked device

The objective is to confirm clinical performance and safety throughout the expected lifetime of the medical device, the acceptability of identified risks and to detect emerging risks on the basis of factual evidence.

#### MDCG - 2020 - 7

Specify the methods and procedures set up by the manufacturer to proactively collect and evaluate clinical data from the use in or on humans of a CE marked medical device. The plan should describe if a general or specific procedure / method of obtaining data is adopted and state why PMCF is required.

The aim of the PMCF plan\* is:

- confirming the safety and performance, clinical benefit if applicable, of the device throughout its expected lifetime;
- identifying previously unknown side-effects and monitor the identified side-effects and contraindications;
- identifying and analysing emergent risks on the basis of factual evidence;
- ensuring the continued acceptability of the benefit-risk ratio,
- identifying possible systematic misuse or off-label use of the device, with a view to verifying that the intended purpose is correct

\*Ref: MDR Annex XIV Part B

#### MDR: Annex XIV PART B

The PMCF plan shall include at least:

(a) the general methods and procedures of the PMCF to be applied, such as gathering of clinical experience gained, feedback from users, screening of scientific literature and of other sources of clinical data;

(b) the specific methods and procedures of PMCF to be applied, such as evaluation of suitable registers or PMCF studies;

(c) a rationale for the *appropriateness of the methods* and *procedures* referred to in points (a) and (b);

(d) a reference to the relevant parts of the clinical evaluation report and to the risk management documentation

(e) the *specific objectives* to be addressed by the PMCF;

(f) an evaluation of the *clinical data relating to equivalent or similar devices*;

(g) reference to any <u>relevant CS, harmonised standards</u> when used by the manufacturer, and relevant guidance on PMCF; and

(h) a detailed and adequately *justified time schedule* for PMCF activities (e.g. analysis of PMCF data and reporting) to be undertaken by the manufacturer



# PMCF Plan

Key Message

• PMCF Plan can be part of the PMS Plan

"PMCF shall be understood to be a continuous process that updates the clinical evaluation referred to in Article 61 and Part A of this Annex and shall be addressed in the manufacturer's post-market surveillance plan".

Ref: MDR Annex XIV PART B

# Types of PMCF

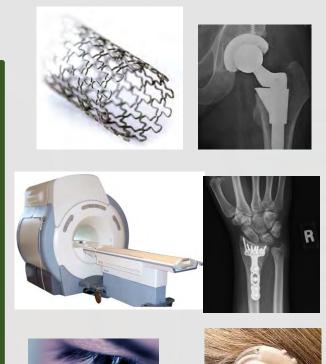
# A Risk Based Approach

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#### PMCF Studies & Risk

Selected methods should be justified, surveys for example may only be appropriate for lower risk devices, or established technologies

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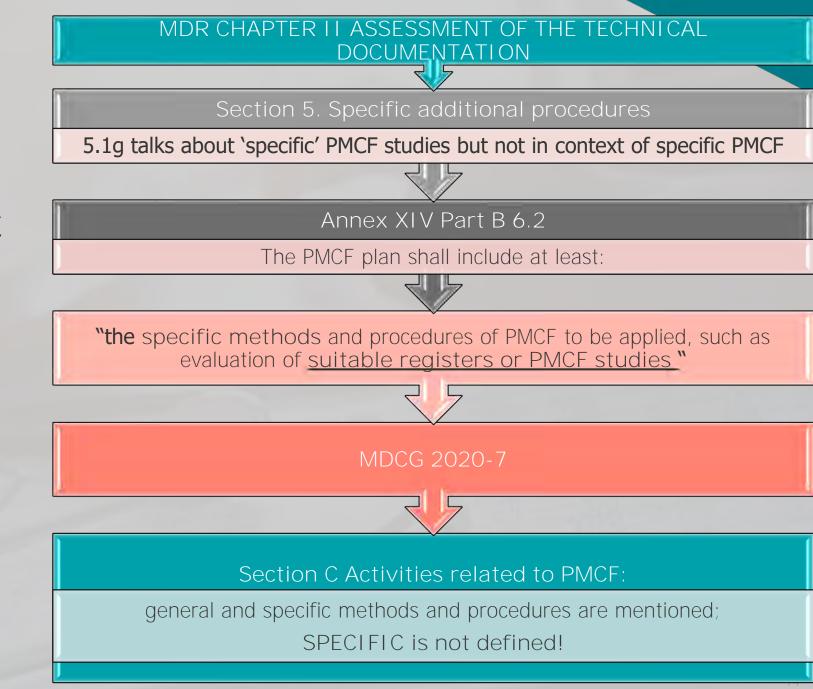
# **Dr UNKNOWNS**

 $\Box$ FOLLOW CLINICAL MARKET POST

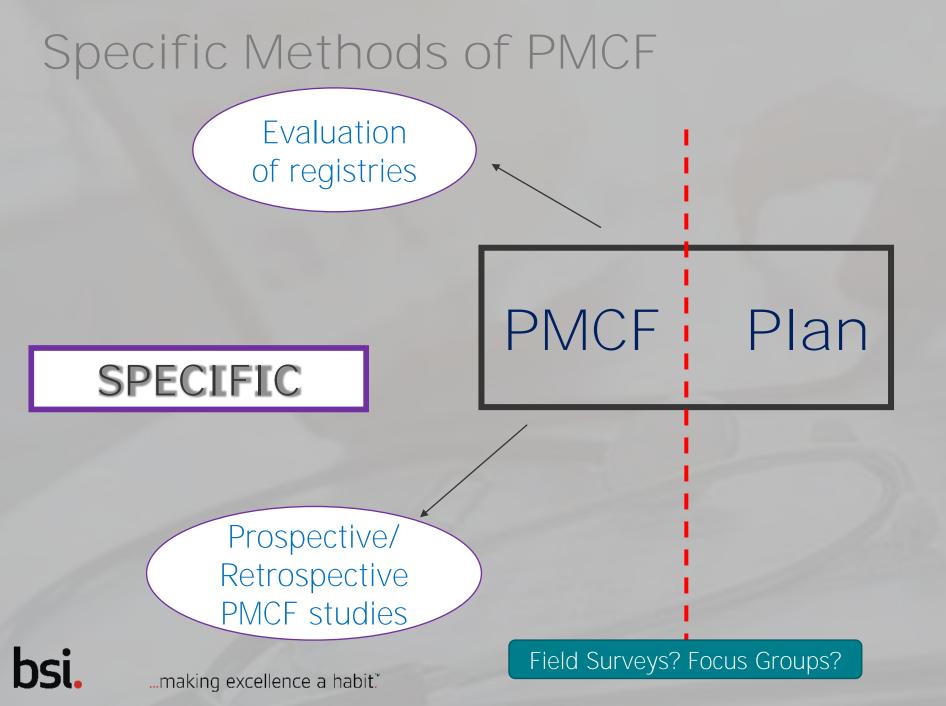
#### SPECIFIC GENERAL Prospective trials (e.g. Expansion of pre-market study, New prospective clinical trial) Patient / Device surgeon registries questionnaires? Retrospective Field surveys? studies Feedback from users Literature Review Complaints/vigil

ance

# What is Specific PMCF?







#### What is General PMCF?

MDR CHAPTER II ASSESSMENT OF THE TECHNICAL DOCUMENTATION

#### Annex XIV Part B 6.2b

• The PMCF plan shall include at least:

"the general methods and procedures of the PMCF to be applied, such as gathering of clinical experience gained, feedback from users, screening of scientific literature and of other sources of clinical data; "

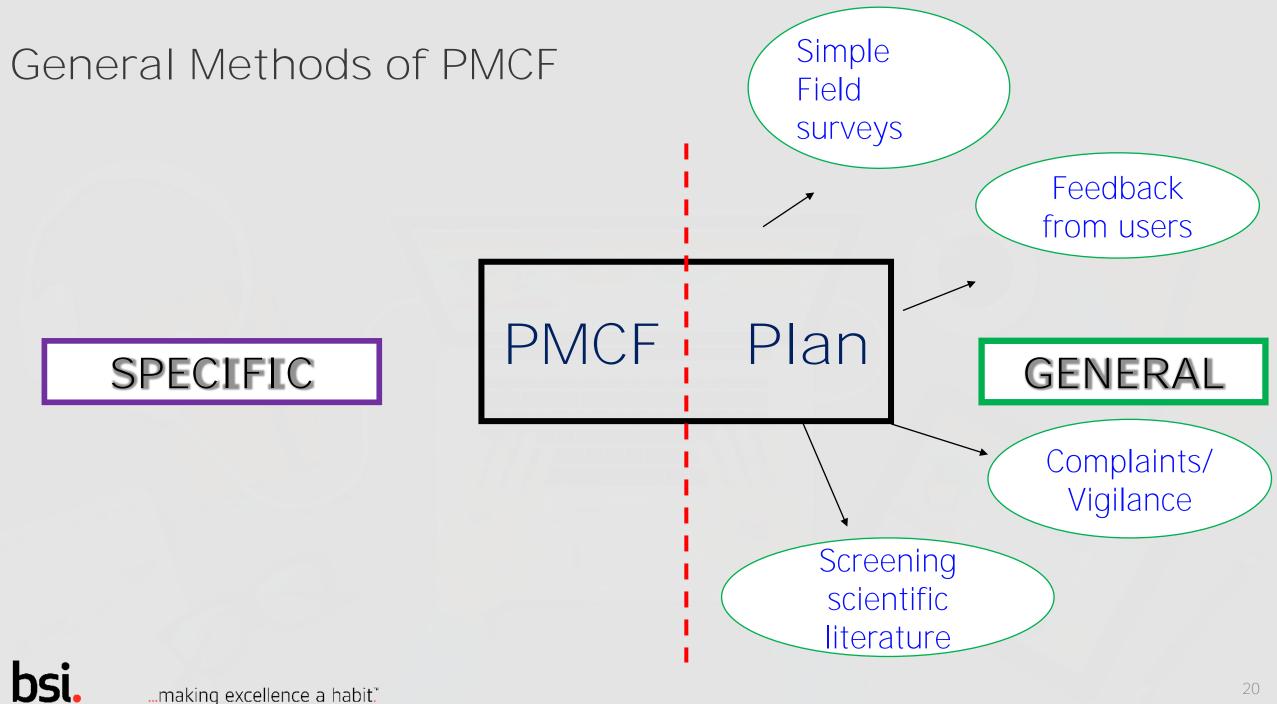
MDCG 2020-7

Section C Activities related to PMCF: general and specific methods and procedures are mentioned;

GENERAL is not defined!

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# What is Proactive PMS? What is the difference with PMCF?

(60) 'post-market surveillance' means all activities carried out by manufacturers in cooperation with other economic operators to institute and keep up to date a systematic procedure to proactively collect and review experience gained from devices they place on the market, make available on the market or put into service for the purpose of identifying any need to immediately apply any necessary corrective or preventive actions;

(b) The post-market surveillance plan shall cover at least:

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- a proactive and systematic process to collect any information referred to in point (a). The process shall allow a correct characterisation of the performance of the devices and shall also allow a comparison to be made between the device and similar products available on the market;
- effective and appropriate methods and processes to assess the collected data:

#### PART B

#### POST-MARKET CLINICAL FOLLOW-UP

- 5. PMCF shall be understood to be a continuous process that updates the clinical evaluation referred to in Article 61 and Part A of this Annex and shall be addressed in the manufacturer's post-market surveillance plan. When conducting PMCF, the manufacturer shall proactively collect and evaluate clinical data from the use in or on humans of a device which bears the CE marking and is placed on the market or put into service within its intended purpose as referred to in the relevant conformity assessment procedure, with the aim of confirming the safety and performance throughout the expected lifetime of the device, of ensuring the continued acceptability of identified risks and of detecting emerging risks on the basis of factual evidence.
  - 6.1. The PMCF plan shall specify the methods and procedures for proactively collecting and evaluating clinical data with the aim of:

1.1-0 .-

The term proactive is used in the MDR for both in the context of PMS and PMCF

#### Annex III

#### (b) The post-market surveillance plan shall cover at least:

- a proactive and systematic process to collect any information referred to in point (a). The process shall allow a correct characterisation of the performance of the devices and shall also allow a comparison to be made between the device and similar products available on the market;
- effective and appropriate methods and processes to assess the collected data:
- 1.1. The post-market surveillance plan drawn up in accordance with Article 84.

The manufacturer shall prove in a post-market surveillance plan that it complies with the obligation referred to in Article 83.

- (a) The post-market surveillance plan shall address the collection and utilization of available information, in particular:
  - information concerning serious incidents, including information from PSURs, and field safety corrective actions;
  - records referring to non-serious incidents and data on any undesirable side-effects;
  - information from trend reporting;
  - relevant specialist or technical literature, databases and/or registers;
  - information, including feedbacks and complaints, provided by users, distributors and importers; and
  - publicly available information about similar medical devices.

We see Annex III Point B referring to the list in Annex A – But are all these proactive activities?

## General vs Specific / <u>Reactive</u> Vs Proactive

General Methods

Complaints Vigilance

Screening of Literature Passive feedback

Trend reporting

?Surveys ?User Feedback ? Information on other devices

Considered Proactive PMS – but could be specific PMCF pending on the type and output of data. E.g. High quality survey Specific Methods

Registries

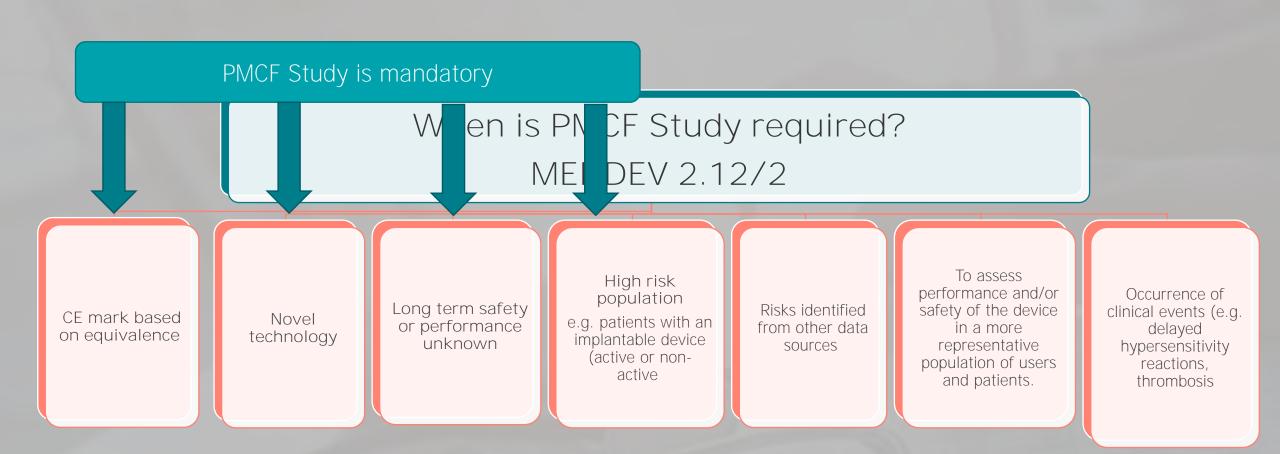
PMCF Studies

- 6.2. The PMCF plan shall include at least:
  - (a) the general methods and procedures of the PMCF to be applied, such as gathering of clinical experience gained, feedback from users, screening of scientific literature and of other sources of clinical data;
  - (b) the specific methods and procedures of PMCF to be applied, such as evaluation of suitable registers or PMCF studies;

Annex XIV Part B Section 6.2

# When is a **PMCF Study** required?



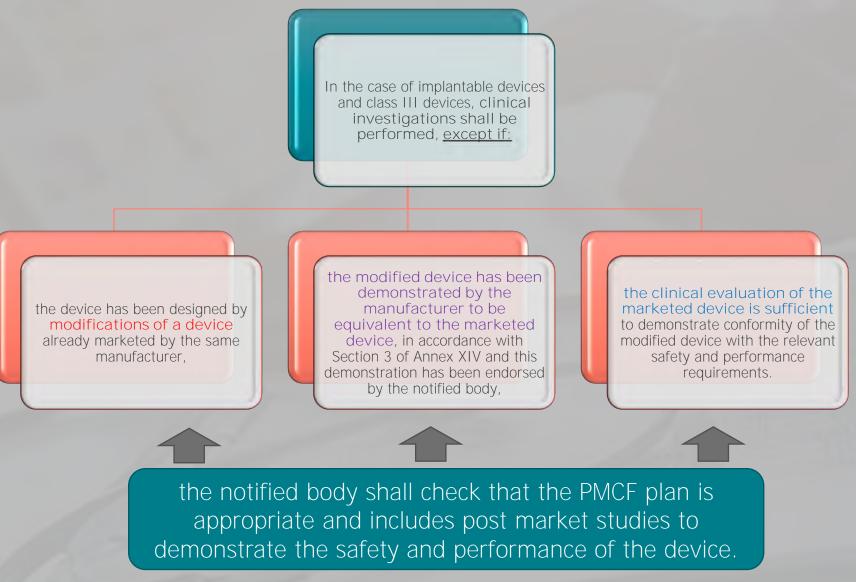


Following a proper premarket clinical evaluation, the decision to conduct PMCF studies must be based on the identification of possible residual risks and/or unclarity on long term clinical performance that may impact the benefit/risk ratio.

# MEDDEV 2.12/2

- innovation, e.g., where the design of the device, the materials, substances, the principles of operation, the technology or the medical indications are **Novel**
- significant changes to the device or to its intended use leading to pre market clinical evaluation and re-certification;
- high product related risk e.g. based on design, materials, components, invasiveness, clinical procedures;
- high risk anatomical locations;
- high risk target populations e.g. paediatrics, elderly; severity of disease/treatment challenges;
- questions of ability to generalise clinical investigation results;
- unanswered questions of long-term safety and performance;
- results from any previous clinical investigation, including adverse events or from post-market surveillance activities;
- identification of previously **unstudied subpopulations** which may show different benefit/risk-ratio
- continued validation in cases of discrepancy between reasonable premarket follow-up time scales and the expected life of the product;
- risks identified from the literature or other data sources for similar marketed devices;
- interaction with other medical products or treatments;
- verification of safety and performance of device when exposed to a larger and more varied population of clinical users;
- **new information** on safety or performance;
- where CE marking was based on equivalence.

## MDR Article 61 [4]: High Risk Devices



- What PMCF activities would be relevant to an implantable artificial cervical disc intended to be implanted for the lifetime of the patient?
- A. Survey from the surgeons who implanted the device
- B. PMCF clinical investigation
- C. State of the art Literature search
- D. Complaints and feedback from patients who were treated with the device

When thinking about types of PMCF – all of these should be considered in this scenario and all would have a role in answering questions around ongoing safety and performance.



# Specific PMCF

# **PMCF** Studies

## PMCF Study Requirements

#### MEDDEV 2.12/2

PMCF studies must be outlined as a well designed clinical investigation plan or study plan, and, as appropriate, include:

clearly stated research question(s),
objective(s) and related endpoints;

scientifically sound design with an appropriate rationale and statistical analysis plan;

a plan for conduct according to the appropriate standard(s);

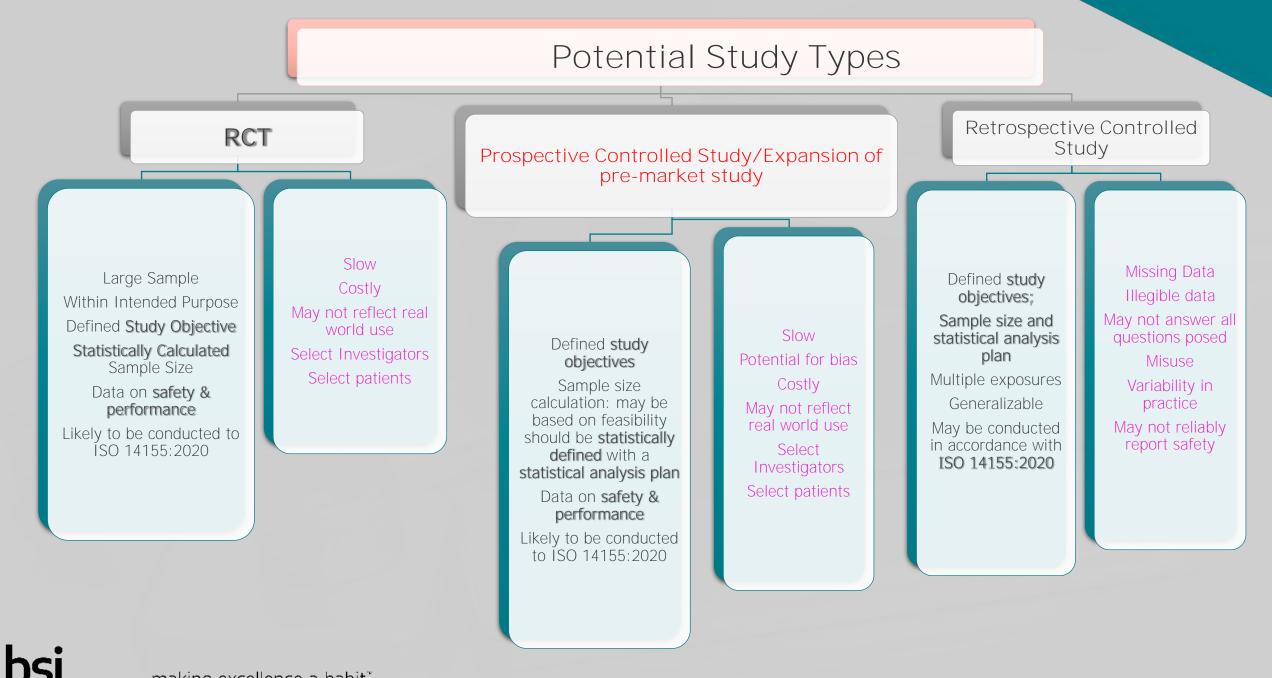
a plan for an analysis of the data and for drawing appropriate conclusion(s)."

#### MDCG – 2020 -7 A PMCF study should INCLUDE at minimum:

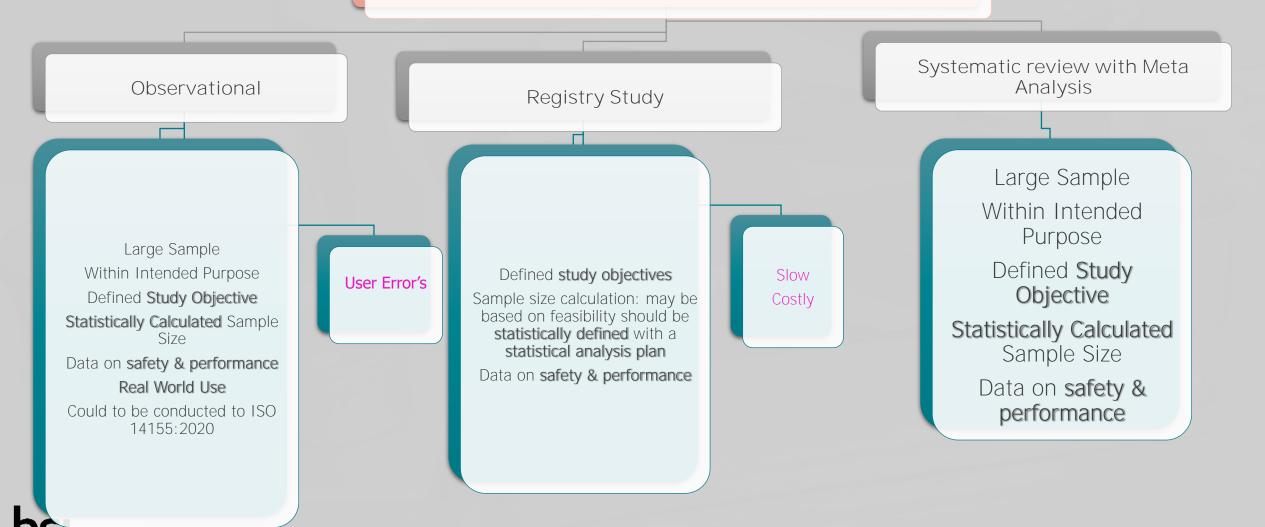
Sample size, Study population Endpoints, Inclusion/exclusion criteria Well Deigned PMCF Study

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#### Potential Study Types



## **Registry Studies**

#### Registry Studies (ISO 14155:2020)

A REGISTRY is an organised system that uses observational study methods to collect defined clinical data under normal conditions of use relating to one or more devices to evaluate specified outcomes for a population defined by a particular disease, condition, or exposure and that serves predetermined scientific, clinical or policy purpose(s)

#### Guidance:

IMDRF/REGISTRY WG/N33 FINAL. 2016 'Patient registry; Essential Principles' registry system', available at: <u>http://www.imdrf.org/docs/imdrf/final/consultations/imdrf-cons-essentialprinciples-151124.pdf</u>

IMDRF/Registry WG/N42FINAL: 2017 'Methodological Principles in the Use of International Medical Device Registry Data' (covering multiple applicable registries), available at: <u>http://www.imdrf.org/docs/imdrf/final/technical/imdrf-</u> <u>tech-170316-methodological-principles.pdf</u> When are Registries Applicable? Long term implants Limited follow up in Pre CE mark study Side by side analysis of similar devices Examples of registries: The National Joint Registry (NJR) of England, Wales and Northern Ireland UK vascular registry e.g. https://www.hqip.org.uk/a-z-of-nca/nationalvascular-registry/#.YVGkZLhKg2w https://digital.nhs.uk/data-andinformation/clinical-audits-andregistries/breast-and-cosmetic-implantregistry

# PMCF Studies

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			Have all patients been considered
	POPULATION		Are patients representative of the use of the device within its intended purpose
PMCF Studies		-[	Was the sample size sufficient? How was the sample size calculated?
	INTERVENTION	~	Has the device been used in accordance with the manufacturer's labelling?
	. OBJECTIVES	~	Are they clearly defined and measurable?
	OUTCOME/ENDPOINTS	<b></b> /	Are the outcome measures clearly defined and does the data support the clinical benefit, safety and performance endpoints and claims.
	INTERVENTIONAL OR OBSERVATIONAL	~	Has the study design been justified, if interventional are there any procedures that impact the outcomes (e.g. introduce bias)?
	LENGTH OF OBSERVATIONS	~	Is the length of the study sufficient to support the lifetime of the devices?
	- FOLLOW UP	÷	Does the study include a follow up and if so is the period clinically relevant?
		[	Are the data analysis methods defined?
	- DATA ANALYSIS	+	Have the right correct statistical methods been applied?
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#### Specific PMCF Surveys

# What is a High-Quality Survey Versus a General Survey?

High-Quality Specific Surveys

Surveys

Low Quality General Surveys Clinical indications Typically Prospective May include a follow up period Typically provide clinical data on the subject device

Ask disciplines to recall data which often can be biased or not accurate in its reflection. May focus on the user of the device and the use of experience. Level 4 Evidence

Level 8 Evidence

MDCG-2020-6

#### Surveys/User Evaluations Will this method of data Valid answers to the gaps identified in the PMCF plan? Applicable Labelling Indications been validated? Data Considerations Intended Use/Users Targeted Endpoints Are the methods of data analysis appropriate? Is it possible to validate surveys? bsi. ...making excellence a habit."

## General PMCF

## Types of General PMCF

#### General PMCF

- Surveys
- Feedback from users
- Literature reviews
- Complaints/Incident reports/Trends



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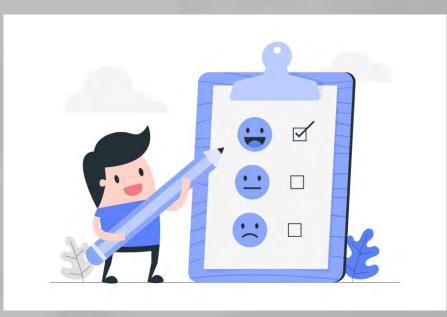
## Surveys/User Evaluations

Can be online or paper based

Within the intended purpose

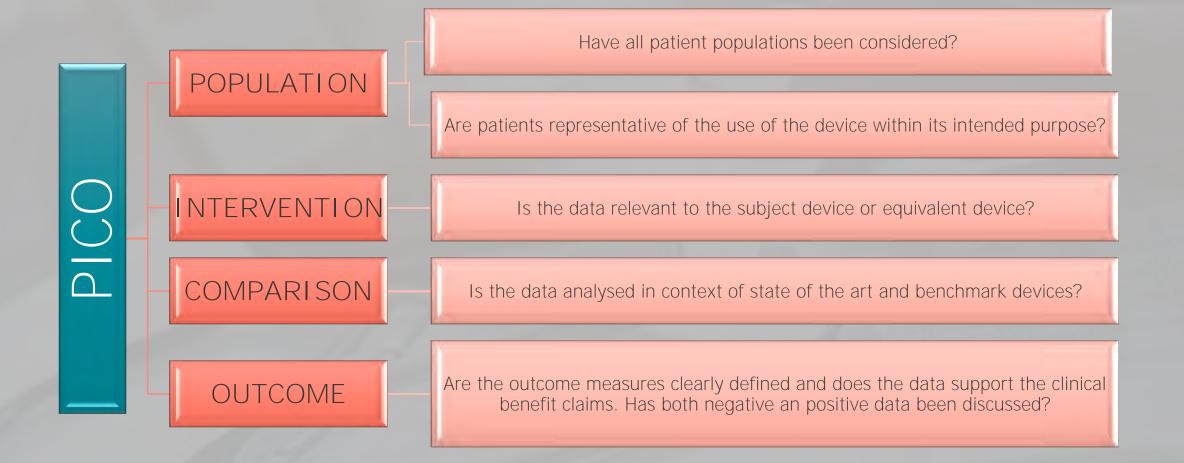
Method must be justified

Relevant to lower risk devices, established technologies and devices with an acceptable risk/benefit ratio





## Literature Reviews



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## Complaints: Qualitative & Quantitative Analysis

	Product Description	Total
Number		Sales
3333-5678	Variant A	336,739
3333-5679	Variant B	585,507
Total		922,246

Country	Complaint /Sale Ratio (13	Harm 2°) = 298/336,739 < 0.001 7°) = 511/585,507< 0.001	Variant A	Variant B
Finland	Foreign object (unintended)	None	0	1
	Excessive stress in bone	Periprosthetic fracture	1	0
Germany	Foreign object (unintended)	None	1	1
	Packaging too difficult to open	Complications sociated with extended surgery	0	1
Netherlands	Excessive stress in bone	Periprosthetic f ture	0	1
Poland	Foreign object (unintended)	None	1	0

Have GLOBAL COMPLAINTS been considered?

Are there any trends?

Have complaints been assessed in context of sales

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## PMCF Report

### MDCG Guidance MDCG-2020-8

### MDR Annex XIV Part B



# PMCF Evaluation Report



Should be written as per template in MDCG 2020-8



Updated annually for Class III and implantable devices



Will feed into the PSUR, SSCP & CER



Used to update the IFU & risk management file



Forms part of the technical documentation



Follows the PMCF plan

## MDR & PMCF

7. The manufacturer shall analyse the findings of the PMCF and document the results in a PMCF evaluation report that shall be part of the clinical evaluation report and the technical documentation.

8. The conclusions of the PMCF evaluation report shall be taken into account for the clinical evaluation referred to in Article 61 and Part A of this Annex and in the risk management referred to in Section 3 of Annex I. If, through the PMCF, the need for preventive and/or corrective measures has been identified, the manufacturer shall implement them.

Impact on labelling:

Indications?

Intended Use?

Contraindications?

Warnings?

Precautions?

Impact on

Design?

Manufacturing Controls?

### Article XIV Part B (7,8)

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## PMCF and Harmonized Standards

ISO 14155:2020 Clinical Investigations in Medical Devices: Good Clinical Practice

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## MDR + Standards + Guidelines: The Link

### Clinical Investigations

EN ISO 14155:2020 Clinical investigation of Medical Devices for human subjects Good clinical practice; Third Edition

### PMCF

### MDR: Article 8 Use of harmonised standards

The first subparagraph shall also apply to system or process requirements ......including those relating to quality management systems, risk management, post-market surveillance systems, clinical investigations, clinical evaluation or post-market clinical follow-up ('PMCF').

## Study Phases: PMCF Studies

Regulatory status	Pre-market		Post-market	
Clinical development stage	Pilot stage ( <u>I.3.2</u> )	Pivotal stage ( <u>I.3.3</u> )	Post-marke	t stage ( <u>I.3.4</u> )
Type of design	Exploratory or confirmatory ( <u>I.4.2</u> )	Confirmat	tory ( <u>I.4.3</u> )	Observational ( <u>I.4.4</u> )
Descriptors of clinical investigations	First in human clinical investigation ( <u>I.5.2</u> ) Early feasibility clinical investigation ( <u>I.5.3</u> ) Traditional feasibility clinical investigation ( <u>I.5.4</u> )	Pivotal clinical investigation ( <u>1.5.5</u> )	Post-market clinical investigation ( <u>I.2.3</u> )	Registry <sup>a</sup> ( <u>I.5.6</u> ) Post-market clinical investigation <sup>a</sup> ( <u>I.2.3</u> )
Burden to subject	Interventional ( <u>I.6.2</u> )			Non-interventional ( <u>I.6.3</u> )
<sup>a</sup> Registry data may be used for pre-market regulatory purposes (see <u>I.5.6</u> ), this can also apply to the post-market clinical investigation data.				

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## When Will The NB Assess PMCF?

Initial conformity assessment

Recertification review

Significant change review (if applicable)

During review of your PMS plan

On demand by the NB e.g. During review of your SSCP, PSUR (as per MDCG 2019-9, MDCG 2020-6)

Routine review cycle - Class dependent: E.g. Class IIb (Implantable) & Class III – Annually (via EUDAMED) - MDR, Article 61(11)

Decide milestones for review of Clinical evaluation and incorporation of PMCF annex IX chapter II 4.7

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## Is PMCF always mandatory under the MDR?

## MEDDEV 2.12/2

- innovation, e.g., where the design of the device, the materials, substances, the principles of operation, the te indications are Novel
- significant changes to the device or to its intended use leading to pre market clinical evaluation and
- high product related risk e.g. based on design, materials, components, invasiveness, clinical procedu
- high risk anatomical locations;
- high risk target populations e.g. paediatrics, elderly; severity of disease/treatment challenges;
- questions of ability to generalise clinical investigation results;
- unanswered questions of long-term safety and performance;
- results from any previous clinical investigation, including adverse events or from post-market surveillance activities;
- identification of previously **unstudied subpopulations** which may show different benefit/risk-ratio
- continued validation in cases of discrepancy between reasonable premarket follow-up time scales and the expected life of the product;
- risks identified from the literature or other data sources for similar marketed devices;
- interaction with other medical products or treatments;
- verification of safety and performance of device when exposed to a larger and more varied population of clinical users;
- new information on safety or performance;
- where CE marking was based on equivalence.

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Are any of these points left open, unanswered, not addressed?

When <u>Specific</u> <u>PMCF</u> is not required Long term safety and performance is known

CE marked under the directive for years with no trends identified and the manufacturer has demonstrated they have sufficient clinical data to support claims

Acceptable risk benefit ratio

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## Article 61 (10) Devices

We know the article 61 (10) devices do not require clinical data as a route to conformity, this may be an example of types of devices where perhaps a PMCF justification could be considered acceptable.

#### Typically these devices will rely on:

- bench testing data
- animal study data
- common specifications.

The manufacturer may choose to do some post-market clinical follow-up activity to further strengthen the evidence they hold on their device or may use PMCF to address any small gaps or confirm data that may have been identified from the pre-clinical data.

# Key Points

#### \*\*\*REMEMBER\*\*\* The PMCF plan is usually a part of the PMS Plan









Typically manufacturers should conduct some form of PMCF and these should be presented in a PMCF plan that mirrors MDCG 2020-7 If a manufacturer chooses not to conduct a PMCF study we should <u>always</u> expect a justification. <u>This</u> justification should be in the PMCF plan. This justification should be clear and highlight that other PMCF activities are sufficient. It may be acceptable for article 61 (10) and some class I devices not to conduct any PMCF.

## Typical PMCF Study Challenges

## Common PMCF Study Failings

- Poor study design; too many variables; no control; sample size to small
- Undefined or wrong research questions; objectives; study endpoints
- Wrong study population: indications, location
- Inadequate statistical justification for sample size
- Poorly defined or no statistical analysis plan
- Poorly executed PMCF Evaluation report
- Device not used according to CIP



## PMCF: Key Points

Where clinical evaluation in initial conformity assessment under the MDD was based exclusively from clinical data of equivalent devices (MDCG 2020-6, section 5, page 8) the certifying notified body shall verify that PMCF studies have been conducted PRIOR TO MDR CERTIFICATION

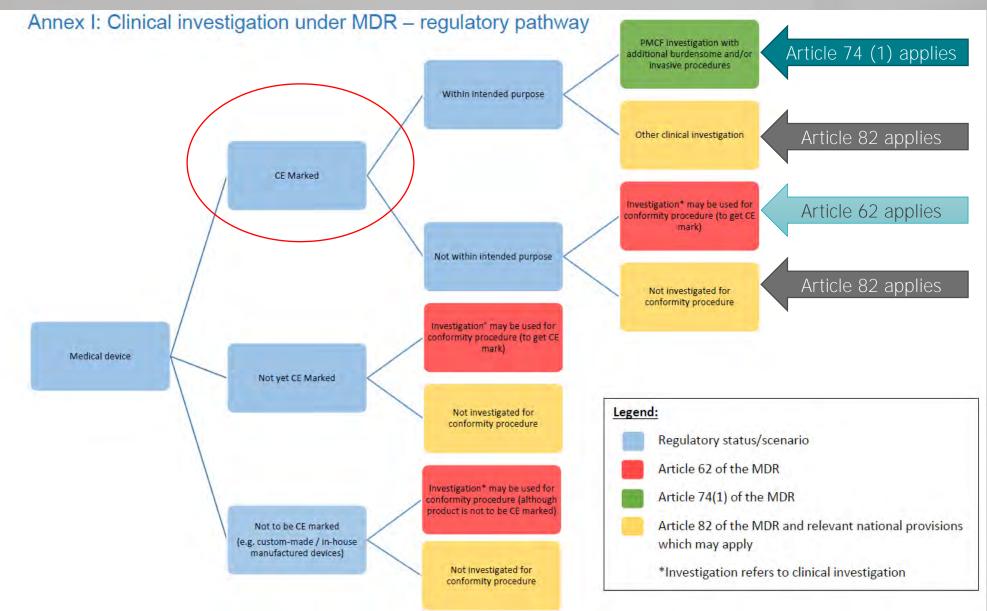
## MDR Article 74 [1]

This article is specific to PMCF studies or investigations conducted

- a. to further assess an already CE marked device within the scope of its intended purpose
- a. Points (b) to (k) and (m) of Article 62(4), Article 75, Article 76, Article 77, Article 80(5) and the <u>relevant provisions</u> of Annex XV shall apply to PMCF investigations. and where the investigation would involve submitting subjects to procedures additional to those performed under the normal conditions of use of the device and those additional procedures are invasive or burdensome, the sponsor shall notify the Member States concerned at least <u>30 days</u> prior to its commencement by means of the electronic

Note competent authority timeline is reduced from 60 days to 30 days for devices bearing CE mark PMCF study would be treated in the same way as a pre market clinical investigation requiring review by the competent authority

## MDCG 2021-6



## What is considered burdensome or invasive? - MDCG 2021-6

Where the investigation would involve submitting subjects to procedures <u>additional to those performed</u> <u>under the normal conditions of use of the device</u> and those additional procedures are **invasive** or <u>burdensome</u>, the sponsor shall notify the Member States concerned at least 30 days prior to its commencement, in accordance with Article 74(1) of the MDR.

Additional procedures which are burdensome can include a wide variety of different interventions, such as:

- Pain
- Discomfort
- Fear
- Potential risks or complications/side-effects,
- Disturbances of lives and personal activities, or otherwise unpleasant experiences.

It is mostly determined from the perspective of the person bearing the burden.

Additional procedures which are invasive include (but are not limited to):

- Penetration inside the body through the surface of the body, including through mucous membranes of body orifices
- Penetration of a body cavity via a body orifice.

## MDR: Annex XVI Devices

Clinical evaluation of these products shall be based on relevant data concerning safety including data from post market surveillance, PMCF and where applicable clinical investigations

Devices without an intended medical purpose



### **Devices without Medical Purpose**

## BSI Medical Devices – Use Our Resources

White Papers and Articles

Person responsible for regulatory

requirements.

compliance (PRRC) - MDR/IVDR Article 15 With the MDR and IVDR, European regulators aim to ensure companies have a regulatory expert - a Person Responsible for Regulatory Compliance (PRRC) - at their disposal, to ensure that the company is meeting certain specific EU

Software as a medical device - A comparison

of the EU's approach with the US's approach The International Medical Device Regulators Forum (IMDRF) aims to accelerate nternational medical device regulatory convergence. Through the IMDRE

regulators reached consensus on what software is considered a medical device

Regulators call it software as a medical device (SaMD). This paper provides a comparison of how SaMD is regulated in the US and in the EU.

How is Al different from traditional medical devices and medical software and

what are the implications of those differences? What controls are necessary to

The conduct of a clinical investigation is one of the most time consuming and

resource intensive activities that a medical device manufacturer can face. This

paper discusses important new requirements for pre-imarket and post-market

Machine learning AI in medical devices

Medical device clinical investigations -

ensure AI in healthcare is safe and effective?

What's new under the MDR?

clinical investigations under the European MDR.

https://www.bsigroup.com/en-GB/medical-devices/resources

Brochures, Guides and Documents

MDR quidance

MDD Best Practice Guidelines > MDR Best Practice Guidelines > MDR Mapping Guide > MedDev 2.7.1 Rev 4 changes > MDR Conformity Routes > MDR Readiness Review >



MDR - What we know

Download the presentation >





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#### Training Resources



#### Medical devices regulation (MDR)

Transition from MDD to MDR	1 day
Technical Documentation for CE - Marking	1 day
Requirements of MDR for CE - Marking	1 day
Implementing of MDR for CE- Marking	3 days

Medical Device Single Audit Program (MDSAP)	2 days
ISO 14971 Risk Management	1 day
Creating and Maintaining Technical Files	1 day
Post-market Surveillance and Vigilance	1 day
Clinical Evaluation for Medical Devices	1 day
Process Validation for the Medical Device Industry	1 day
Introduction to Medical Device Software	1 day





Webinars







This was the last in our Clinical Masterclass Series of webinars.

To view all the on demand webinars in this series to date, please use the link below:

https://www.bsigroup.com/en-GB/medical-devices/resources/webinars/2022/mdr/clinicalmasterclass/

All registrants will be sent a link to the recorded webinar and presentation slides after the event. Look out for the Clinical toolkit with lots of useful information, whitepapers and resources, which will be sent to you automatically by the end of March.

## Questions

