

Sponsor's Perspective: How to organize and implement a cycle of assessment measures and safety event reporting

Loes Verjans-Wasserman, Principal Clinical Safety Specialist Medtronic Clinical & Regulatory Solutions - Data & Safety Solutions April 2024

INVESTIGAÇÃO **CLÍNICA E ESTUDOS** DE DISPOSITIVOS

















## Agenda

#### 1. Medtronic: our mission & who we are

- 2. Clinical Safety Responsibilities Overview
  - Clinical Study Lifecycle Safety Milestones
- 3. Evaluation and Management of Safety Information
  - Clinical Safety Reporting Requirements
    - Clinical Study Regulatory Status
    - ➤ Applicable Regulations in Europe
  - Safety Data Types
  - Portugal Regulatory reporting requirements
  - Clinical Safety Data Review, Assessment and Reporting
- Q&A













#### **MEDTRONIC**

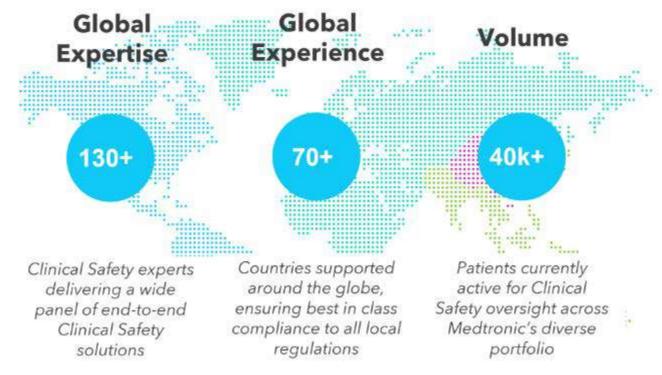
#### **Our Mission: Inspiring the Extraordinary**

The Medtronic Mission has motivated us to do the extraordinary for 75 years — and counting!

To contribute to human welfare by application of biomedical engineering in the research, design, manufacture, and sale of instruments or appliances that **alleviate pain, restore health, and extend life.** 

#### Who We are

Medtronic Clinical Safety team deploys functional expertise and leadership to ensure uncompromised patient safety in clinical trials conducted all over the world.

















## **Clinical Study Lifecycle Safety Milestones**

# Planning

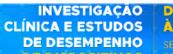
- Determine safety reporting requirements
- Create Salety Fight and External Adjudication Committee Charter
- Create tools for safety data oversight

# Execution

- Safety data review, assessment and reporting
- Safety data cleaning and reconcination
- Medical coding (MedDRA, WHO Drug, IMDRF)
- Manage external adjudication committees
- Periodic safety data trending to identify safety signals

Closure

- Final safety data cleaning and reconciliation
- File all safety relevant documentation in Trial Master File



















## **Clinical Safety Reporting Requirements**

#### **Clinical Study Regulatory Status**

The **regulations** being followed should be appropriate given the **regulatory status** of the product and the geographies the study is being conducted: geography subject matter experts are consulted to confirm local requirements.

	PRE-MARKET		POST-MA	ARKET
Clinical Stage	Pilot	Pivotal	Post-Market Surve	eillance (PMS)
Туре	Exploratory & Confirmatory	C	Confirmatory	Observational
Medtronic Study (example)	-	LEADR	SMART study	Cryo AF Global Registry
Burden to Human Subjects	Interventional Non-Interventional			



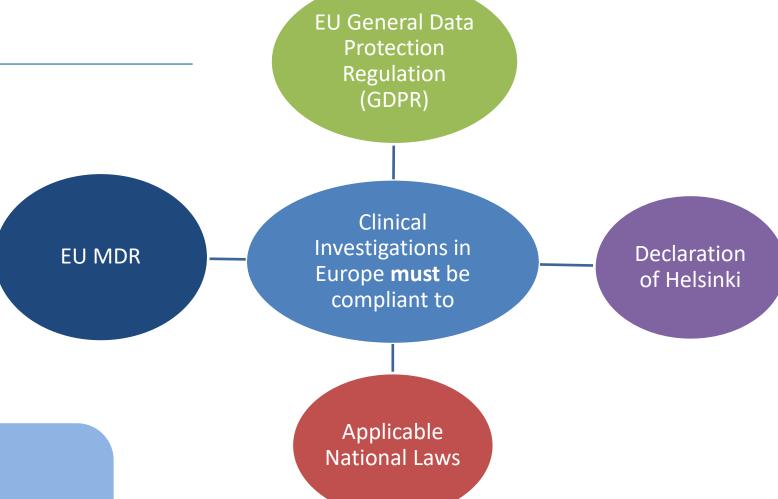






# **Clinical Safety Reporting Requirements**

**Applicable Regulations in Europe** 



Notes regarding ISO 14155 Compliance

- Compliance to ISO 14155 is not required, but recommended
- If ISO 14155 compliance is claimed, any exceptions should be clearly stated in the Protocol
- ISO 14155 Adverse Event (AE) & Device Deficiency (DD) definitions should be utilized, even if the study does not claim compliance to ISO 14155

















## **Safety Data Types**

#### Adverse Event (AE)

Serious AE (SAE)

AE

Serious Adverse Device Effect (SADE)

Adverse Device Effect (ADE)

Unanticipated SADE (USADE)

**Anticipated SADE** 

### **Adverse Event**

Any untoward medical occurrence, unintended disease or injury, or untoward clinical signs (including abnormal laboratory findings) in subjects, users or other persons, whether or not related to the investigational medical device

Example: Heart Failure noted by lab value is AE, but if treated with IV med becomes SAE; bruising around implant site is ADE; stent graft fracture leading to aneurysm rupture is SADE

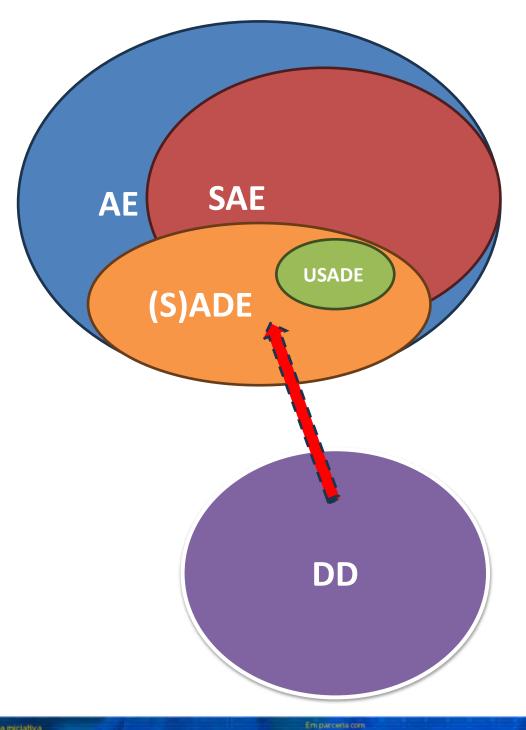
#### **Device Deficiency**

Example: Sacral neuromodulation device to implant is DD with SADE potential

Inadequacy of a medical device with respect to its identity, quality, durability, reliability, usability, safety or performance.

programmer breakage is DD; Lead fracture prior

to implant is DD with SADE potential



**DD** with SADE

potential

Device Deficiency (DD)





**DD** without

SADE potential











# **Question time**

A subject participating in a clinical trial is implanted with a pacemaker. The pocket, where the pacemaker was implanted, becomes infected, and IV antibiotic administration is needed. Which type of safety event is this?

- ☐ DD with SADE potential
- ☐ AE













# **Portugal Regulatory Reporting Requirements**

#### **Investigator Reporting Requirements**

Type of Data	PRE-MARKET
Related SAEs	To sponsor within 3 calendar days
DD with SADE potential	

Type of Data	POST-MARKET Interventional
Preceding investigational procedures related SAE	To sponsor within 3 calendar days

l Tyne ot Data	POST-MARKET Non-Interventional
National requirements following MDR	Article 82 should be followed

Sponsor Re	porting R	Requirements
------------	-----------	--------------

Type of Data	PRE-MARKET
Any SAE which indicates an imminent risk of dea or serious injury that requires prompt remedial action for other patients	no later than 2 calendar days
Related SAEs	To competent authority
DD with SADE potential	no later than 7 calendar days

Type of Data	POST-MARKET Interventional
Procedure related SAEs	To competent authority no later than 7 calendar days
Preceding investigational procedure related SAEs	To competent authority no later than 7 calendar days

Tyne of Data	POST-MARKET Non-Interventional
No regulatory safety reporting requirements	

Note: Investigator and/or Sponsor may be required to report to the Ethical Committee per local country requirements













## **Question time**

A subject participating in a pre-market clinical study informs the site investigator that he experienced a Serious Adverse Event related to the device (e.g. requiring hospitalization). How many days has the investigator to notify the sponsor?

- 2 calendar days
- 3 calendar days
- ☐ 7 calendar days



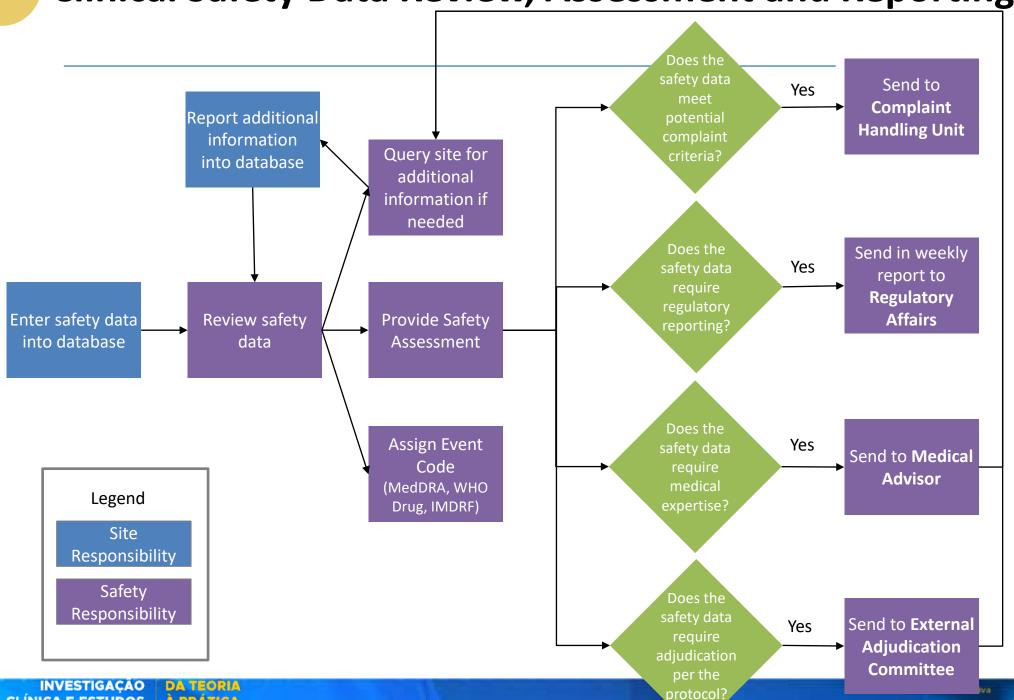








Clinical Safety Data Review, Assessment and Reporting



**DE DESEMPENHO** 

In addition to these assessments on event level – a periodic Aggregate Safety Data Trending meeting is conducted to identify safety signals

The Complaint Handling Unit is responsible for providing input as requested in the clinical trial with respect to ensuring any potential complaints generated as part of the clinical trial are considered for reporting to their organization for final regulatory submission.

**Regulatory Affairs** is responsible for submission for internal regulatory assessment, review of Clinical Investigational Plan, and review and approval of Investigator Brochure/ Report of Priors, at a business/operating unit level. They are the primary contacts for the different Competent Authorities.

The **Medical Advisor** possesses adequate medical background and may advise objectively on medical questions or issues throughout the lifecycle of a clinical study.

An External Adjudication Committee is an independent committee of experts not participating in a clinical study that provides adjudication of study specific endpoints and/or events utilizing study-specific or consensus definitions available in the field.



**NICIB** 







