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# PMS & PMCF: Creating integrated solutions

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## Topics

- 01 PMS vs PMCF what's the difference under EU MDR?
- 02 A few notes on document logistics
- 03 Recap of frequent NB findings
- 04 Case study





## PMS vs PMCF – Annex III vs Annex XIV

## Annex III

- (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.



## PMS vs PMCF – Annex III vs Annex XIV

#### **Annex XIV**

- 6.1. The PMCF plan shall specify the methods and procedures for proactively collecting and evaluating clinical data with the aim of:
  - (a) confirming the safety and performance of the device throughout its expected lifetime,
  - (b) identifying previously unknown side-effects and monitoring the identified side-effects and contraindications,
  - (c) identifying and analysing emergent risks on the basis of factual evidence,
  - (d) ensuring the continued acceptability of the benefit-risk ratio referred to in Sections 1 and 9 of Annex I, and
  - (e) identifying possible systematic misuse or off-label use of the device, with a view to verifying that the intended purpose is correct.

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## PMS vs PMCF- what's the difference?

#### **Pre-MDR**

# **PMS** PMCF



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## PMS vs PMCF- and what are the logistics?



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## **Top 5 Notified Body Findings**

- Lack of alignment between PMS/PMCF activities and CER outputs
- Poor / absent interaction with risk management
- Ineffective trending mechanisms
- Inadequate justification for PMCF study design
- Cadence of document updates not satisfactory

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- Identify clinical evidence objectives
- Map existing data against these objectives
- Identify areas requiring confirming or additional granularity
- Select appropriate PMS / PMCF activities based on data needs and residual risk
- Select appropriate hypotheses
- Plan interim data analysis of SOTA and DUE data
- Create provisional PMS / PMCF plans based on interim analysis





Device Type	Primary wound dressing		
Risk Classification	Class III		
Indication	The device is intended for use in management of clean, contaminated, or infected wounds with moderate to high exudate, including surgical wounds, traumatic wounds, partial-thickness burns and pressure ulcers (NOTE: does not include diabetic foot ulcers). (Replace gauze every ≤7 days)		
Clinical Benefit	Manage the wound environment and promotes wound healing		
Clinical Outcomes	Wound bed size reduction     Reduction in exudate levels     Reduction in bacterial burden     Any reported safety outcomes		
Years on market	15 years		
Device description	Sterile, single-use gauze		
Device materials	Cellulose, contains silver as antimicrobial		
Marketing region	European Union, US, Canada		
Available data	Simplified summary on next slide		
Expected Lifetime	<ul> <li>Per dressing (gauze), benefit is offered for up to 7 days</li> <li>However, benefit is offered for (months) when replaced with identical device(s)</li> <li>(Worst case) Residual (safety) risk is biocompatibility-related, for the cumulative continuous use period (months)</li> </ul>		

Study Type	Data Quality	# Patients	Reported Clinical outcomes	Clinical Outcome results (performance)	Clinical Outcome results (safety)
Case series study	4	10	<ul> <li>Wound bed size reduction</li> <li>Reduction in exudate levels</li> <li>Any reported safety outcomes</li> </ul>	Wound depth reduction by 10%-75%     Exudate reduction	0
Prospective, non- randomised comparative study	2	200	<ul> <li>Wound bed size reduction</li> <li>Reduction in bacterial burden</li> <li>Any reported safety outcomes</li> </ul>	Wound healing (ASEPSIS scoring system)     Reduction in SSI rate	Infection (3 mild and 1 moderate case)
Observational single-centre study	4	50	Reduction in bacterial burden     Any reported safety outcomes	Statistically significant reduction in bacterial load in patients with pressure ulcers	0*
Prospective RCT	1	300	<ul> <li>Wound bed size reduction</li> <li>Reduction in exudate levels</li> <li>Any reported safety outcomes</li> </ul>	Wound depth reduction by 60-85% vs control group (standard care)	0*
Patient chart review	4	300	Wound bed size reduction     Reduction in exudate levels     Reduction in bacterial burden     Any reported safety outcomes	Wound depth reduction by 20%-90%     Exudate reduction     Reduction of bacterial bioburden with time	Infection (2 moderate cases)

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## Case study: Advanced wound dressing

#### Manufacturer conclusions:

- Data on 860 patients covering all indications, patient populations
- Statistically significant outcomes relevant to claims and intended clinical benefits
- 15 year clinical history with no safety issues
- Common design with well established risk profile; no significant risks if used as intended
- "General" PMCF methods satisfactory

#### NB request for additional info:

- Stratify data across specific indications and high-risk patient populations
- Provide statistical justification for acceptability of stratified data
- Provide evidence to support specific marketing claims
- Explain how you monitor for off-label use
- Provide justification for PMCF mechanisms, based on conclusions of revised evaluation

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#### Manufacturer conclusions:

- Data on 860 patients covering all indications, patient populations
- Statistically significant outcomes relevant to claims and intended clinical benefits
- 15 year clinical history with
- These kinds of questions are NB-speak for: "You're probably going to have to generate more evidence, or remove some indications / add more
- contraindications / warnings"

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#### NB request for additional info:

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Provide justification for PMCF mechanisms, based on conclusions of revised evaluation

### Case study: Advanced wound dressing Indication Population Surgical wound Traumatic wound 8 03 Follow-up Pressure ulcers Safety 12 Months Patient Safetv RQM+

Suitable for sensitive skin

Painless removal

Does not stick to the wound

A designed and a desi

Proven by available data !

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Case study: Advanced wound dressing

#### Limited data / Weak areas

Indication		Mean follow-up		
	Pediatrics (<18)	Adults (18-64)	Geriatric (≥65)	time
Surgical Wounds	2	138	70	30 days
Traumatic Wounds	0	300	0	15 – 90 days
Pressure Ulcers	0	50	300	3 months
Total	2	488	370	NA

Adequacy of data justified based on similar devices and SOTA:

- pediatric and geriatric populations for traumatic wounds
- pediatric populations for pressure ulcers
- -follow-up time for pressure ulcers (3 months vs 6 months)



Note: warnings added to IFU re: risks in paediatric populations and contraindication in neonates

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#### **PMCF** specific methods - Study design options:

- Prospective clinical study
- Registries
- Retrospective data mining
- Surveys

#### **PMCF** general methods:

- Literature review
- Vigilance (DUE and similar devices)
- Other user feedback

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## Case study: Advanced wound dressing

Input Requirements	Cls	Registries	Retrospective Data-Mining	Surveys
Ability to cover all indications for balanced approach	Yes	Potentially	Potentially	Potentially
Ability to focus PMCF study on collecting data from pediatric and geriatric populations	Yes	Yes	Yes	Yes
Ability to collect patient data at 6 month follow- up for pressure ulcer indication	Yes	Yes	Potentially	No
Ability to ask participants in PMCF study about off-label use	No	No	Yes	Yes
Ability to collect occurrence rate and severity of adverse events to better estimate probability of harm / risk management updates	Yes	Yes	Yes	No
Activity cost	\$\$\$\$	\$\$\$	\$\$	\$
Activity time-scale	>1 year	1 year to set up then ongoing	6 months – 1 year	<6 months
Level of data quality per MDCG 2020-6	1 or 2	3	4	4 or 8



Input Requirements	Requirements Cls		Retrospective Data- Mining	Surveys	
Level of data quality per MDCG 2020-6	1 or 2	3	4	4 or 8	
Overall recommendation	Although "gold standard" approach, very expensive and time consuming, would not collect information on off-label use so not pragmatic for this device type	Unlikely scenario for this device not realistic to design registry for disposable product with this use case	Best case scenario; if well- designed able to collect data to meet all input requirements, cost-effective, efficient, and high quality data to meet requirements	Unlikely to produce high quality data to inform on enough PMCF study input requirements	
<ul> <li>Justification:</li> <li>15 years' market history</li> <li>Proactive PMS under MDD; no trends or safety signals</li> <li>Pre-existing clinical data at levels 1 and 2 (RCT and prospective study)</li> <li>Usage consistent with SOTA and clinical best practice</li> <li>Given above, data collection based on RW usage more appropriate in the post-market phase</li> </ul>					
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## Case study: Advanced wound dressing

#### How did it turn out?

- Accepted by NB
- No additional warnings limitations on intended use
- Systemic off-label use for diabetic foot ulcers detected prompting review of RM, labelling, and follow-on study



