



Your
Regulatory
Partner

Regulatory Summit
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Clinical Evidence

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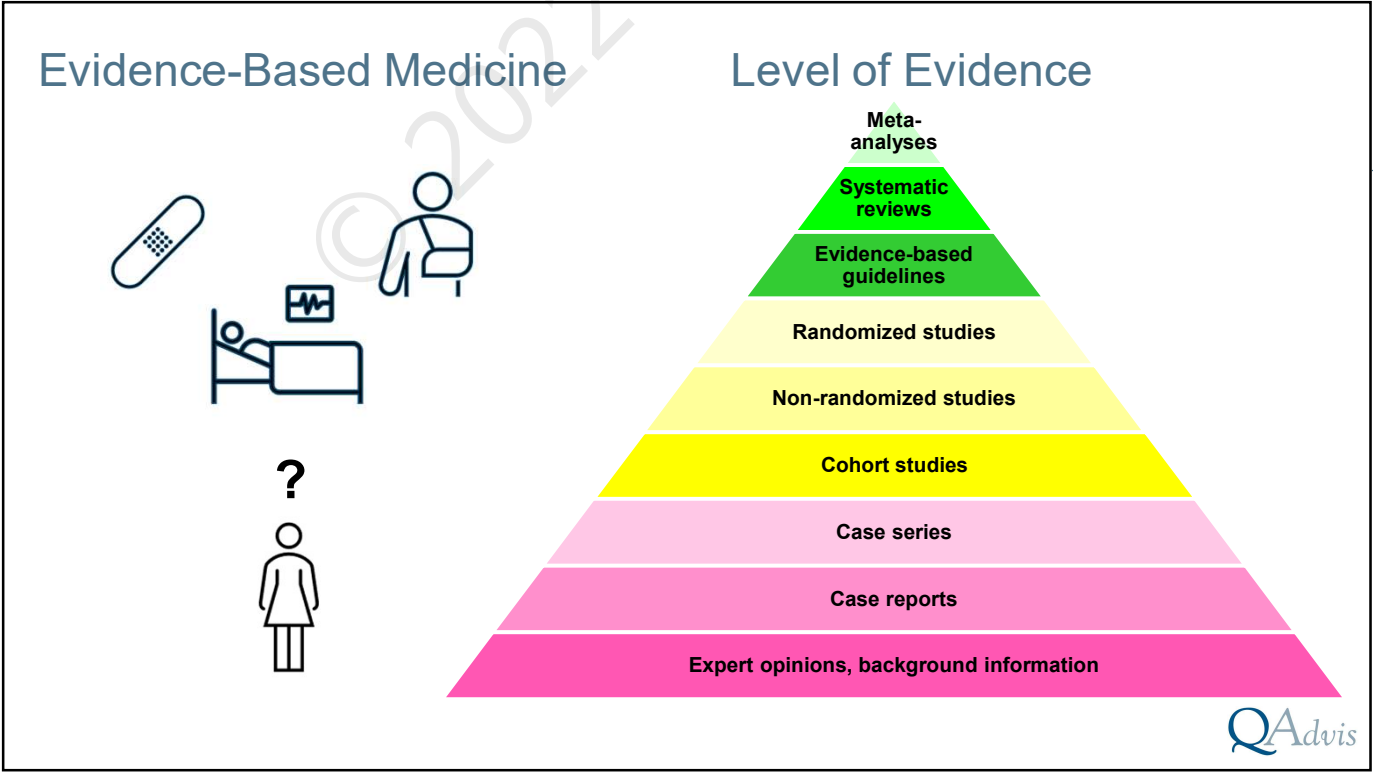
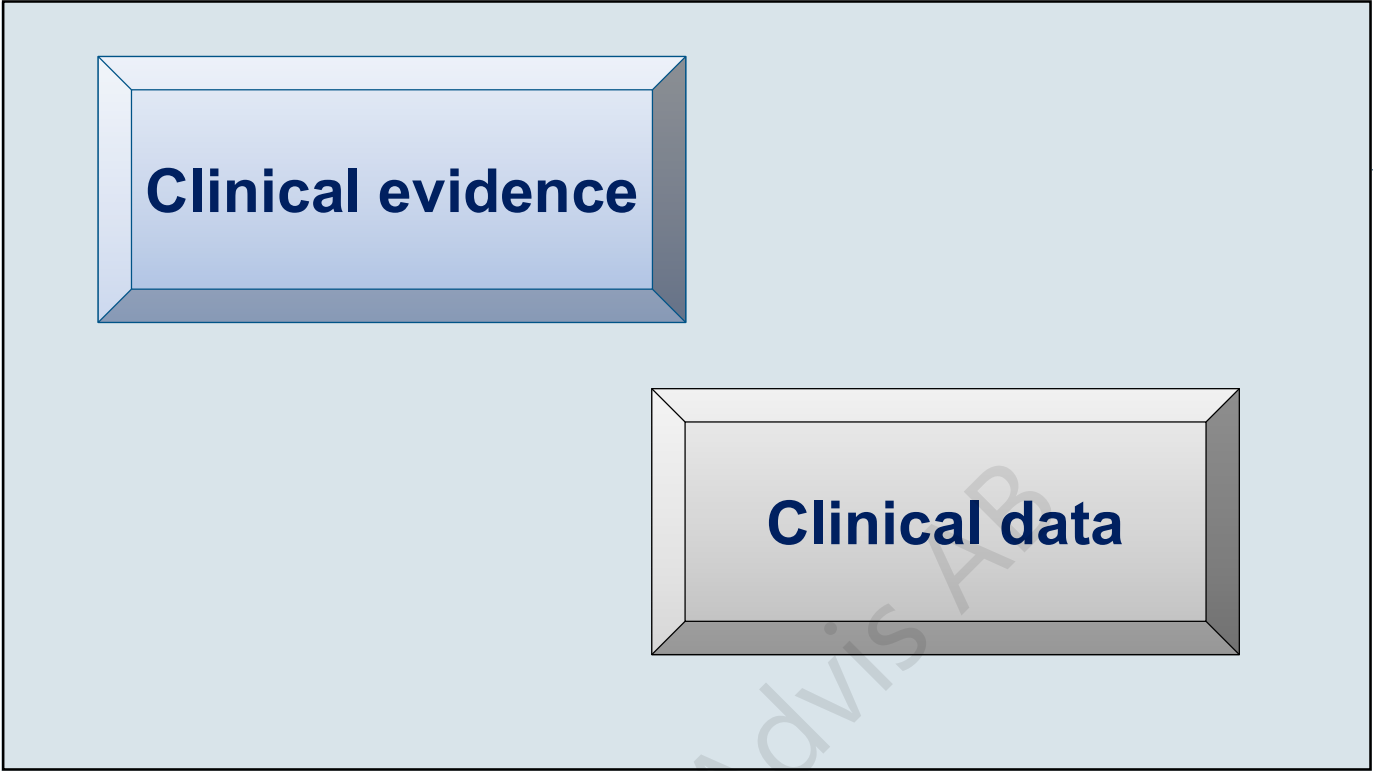
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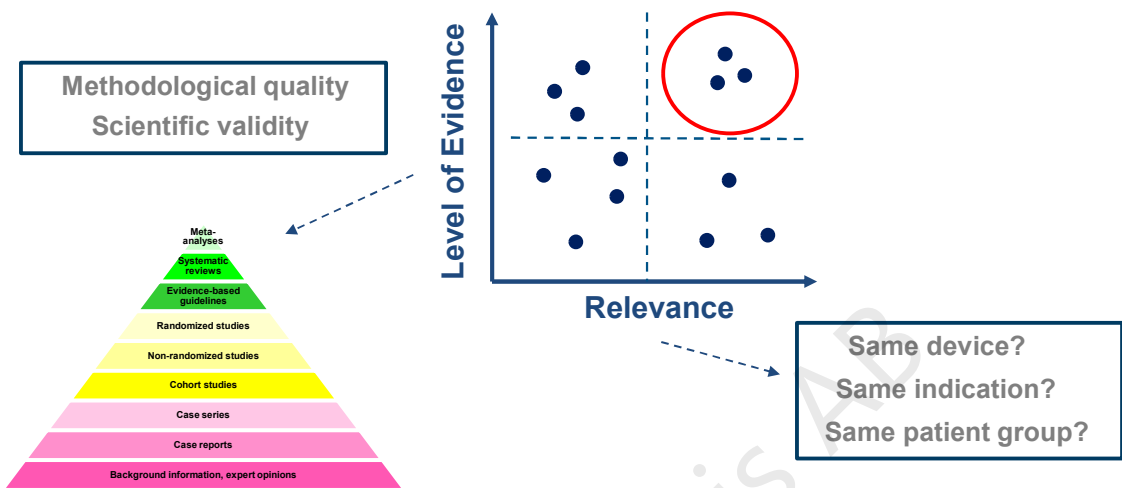
Your
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1. Terminology
2. Requirements on clinical evidence
 - a) Initial CE-marking
 - b) Post-market phase
 - c) MDD/AIMDD to MDR transition
3. What to do if there is not sufficient clinical evidence
4. Low-risk devices

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Appraisal



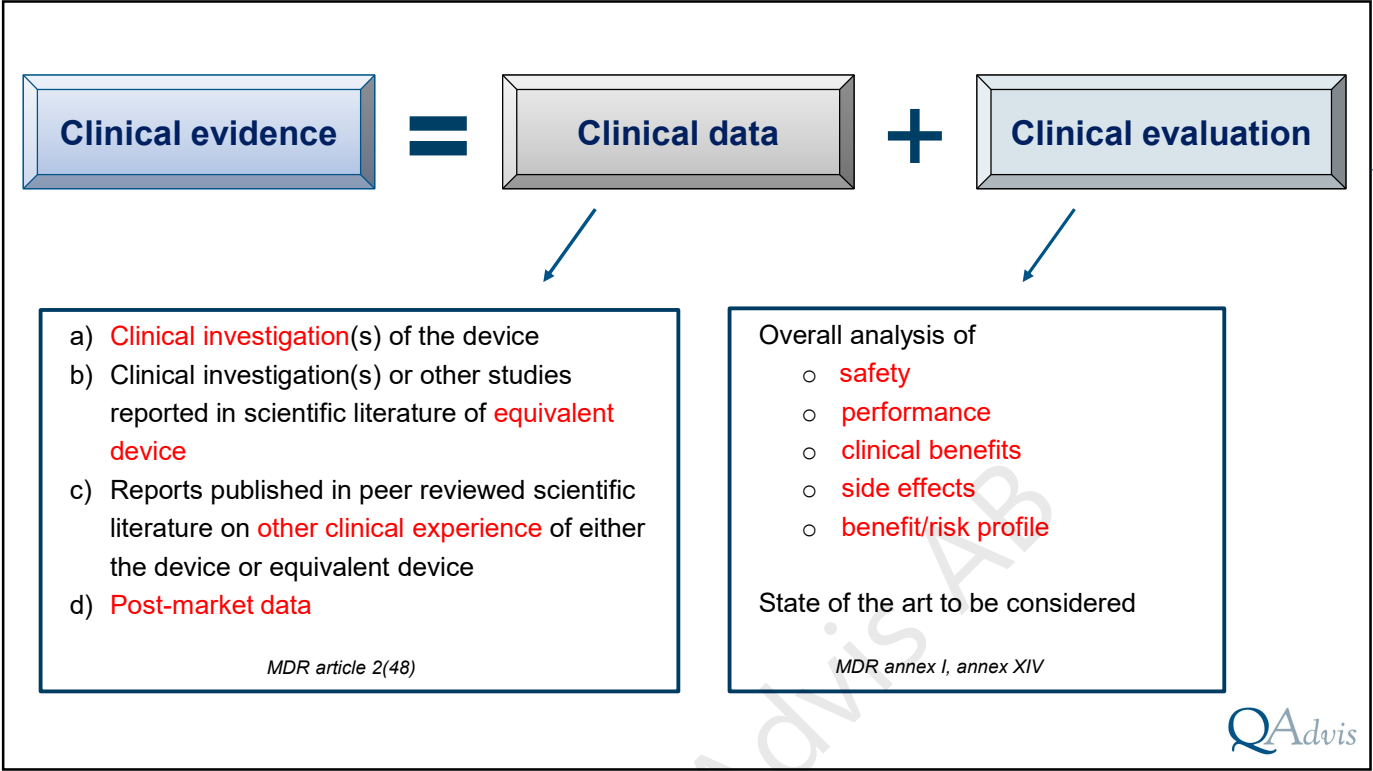
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Clinical Evidence
Clinical data and clinical evaluation results
*pertaining to a device of a **sufficient amount and quality***
to allow a qualified assessment of whether the device is
safe *and achieves the intended **clinical benefit(s)***
when used as intended by the manufacturer

MDR article 2(51)

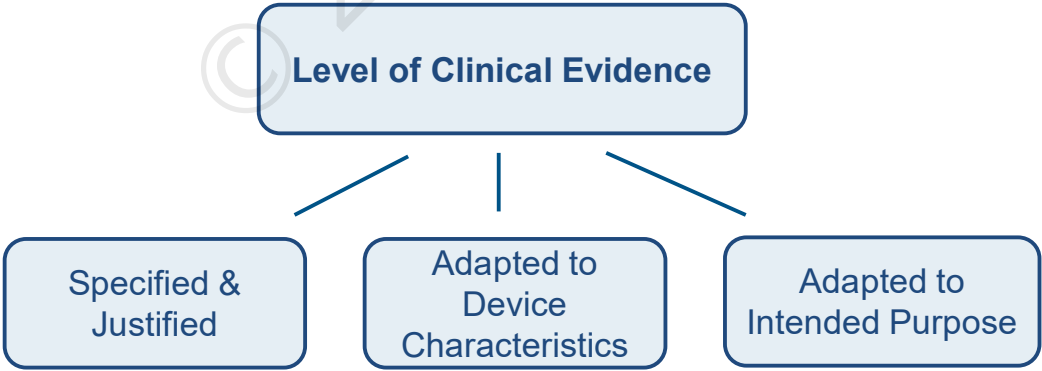
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Clinical Evidence – Is it needed?

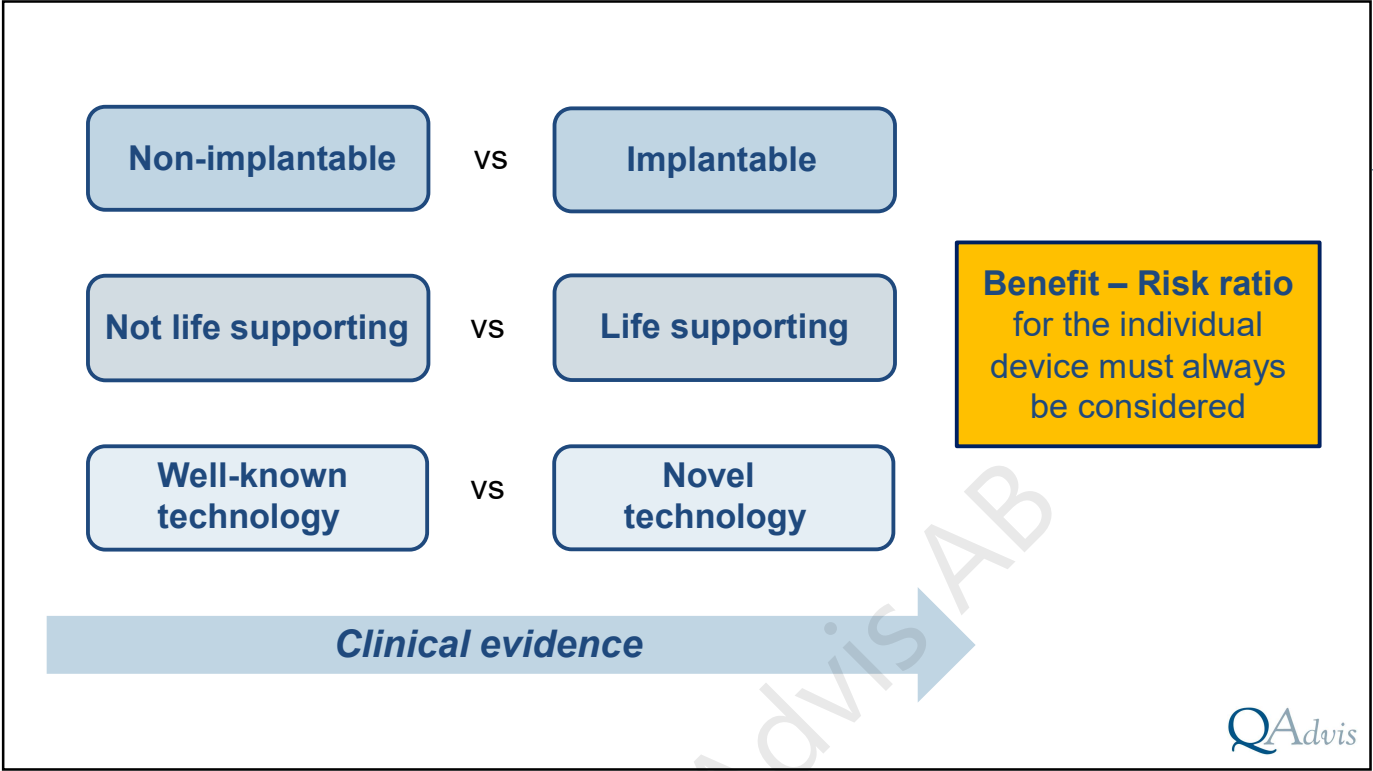
All devices	Sufficient clinical evidence
General rule	Clinical data Exceptions possible, if duly justified
Implantable & class III devices	Clinical investigation Potential exceptions: Equivalence (same or other manufacturer) Devices listed in article 61(6b)

MDR article 61 (1, 4-6, 10)




MDR article 61(1)





Sufficient Clinical Evidence – Is there any guidance?



- MDR: No definition provided
- Some attempts at definition in guidance documents (MDCG 2020-6, MEDDEV 2.7/1)
- Manufacturer to define and justify for every single device
- Device-specific examples are lacking
- Obvious risk for heterogeneous assessments

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Clinical Evidence – Is it needed?

All devices

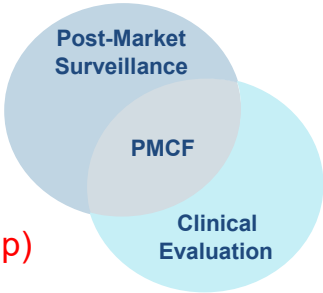
Sufficient clinical evidence
PMCF (post-market clinical follow-up)

Implantable &
class III devices

PMCF study Required if a pre-market
clinical investigation was not performed

Devices in need
of additional
clinical data

PMCF activities as identified by
manufacturer, expert panel and/or
notified body



MDR article 61(4-6), annex 14(5), article 56(3), annex IX (5.1 g)

PMCF Study

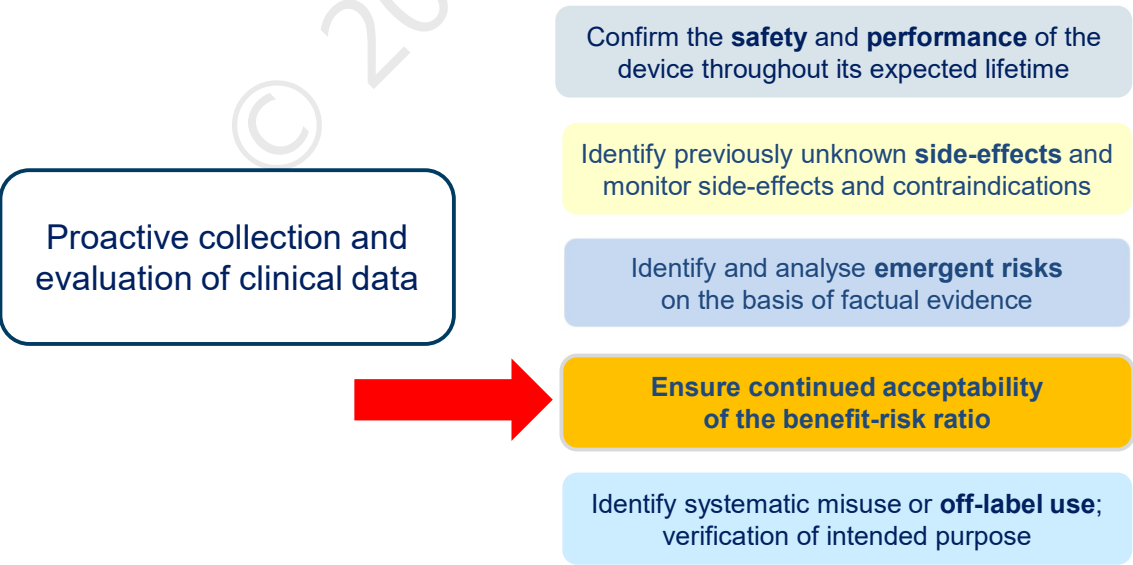


- Study carried out after CE-marking
- Device used according to its approved intended use
- Intended to answer specific questions relating to clinical safety or performance
 - residual risks
 - long-term performance

MDR article 74(1), article 56(3), annex IX (5.1 g)

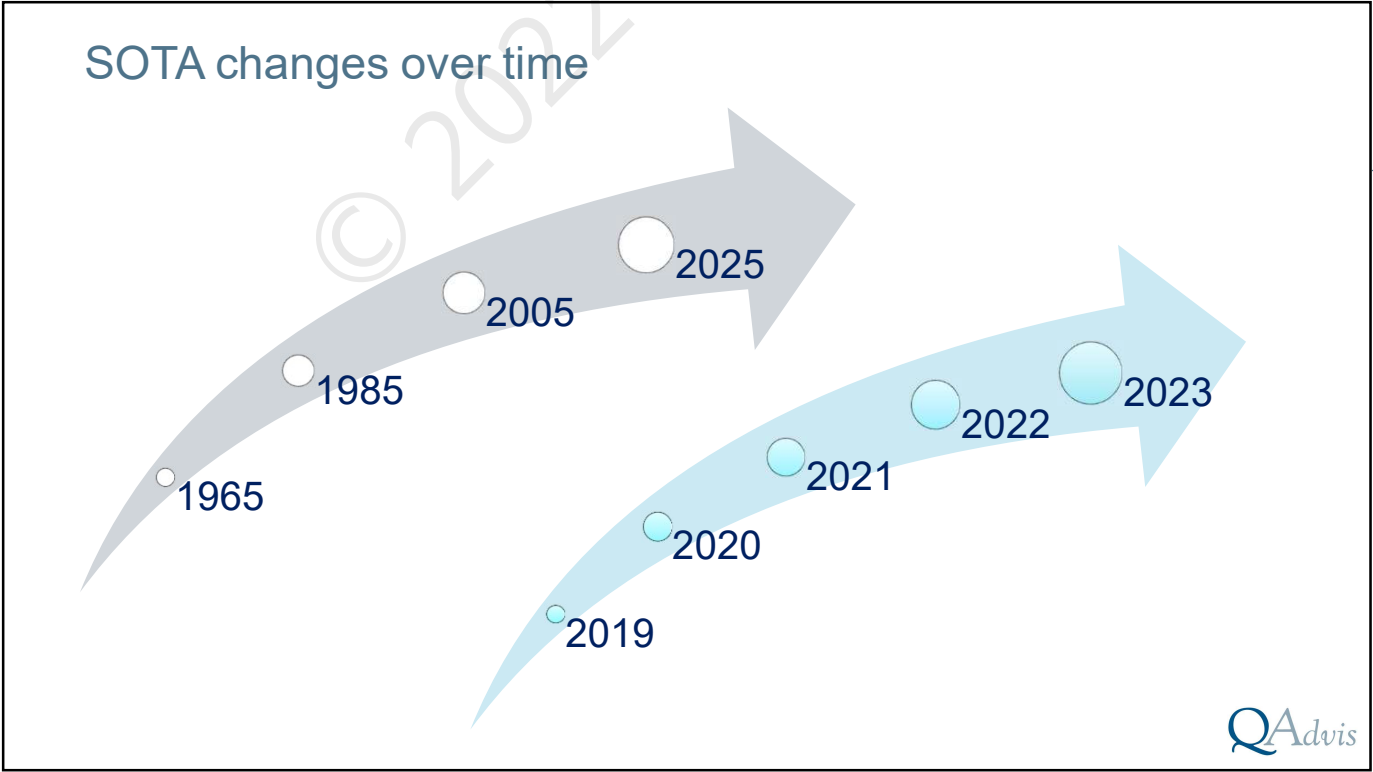
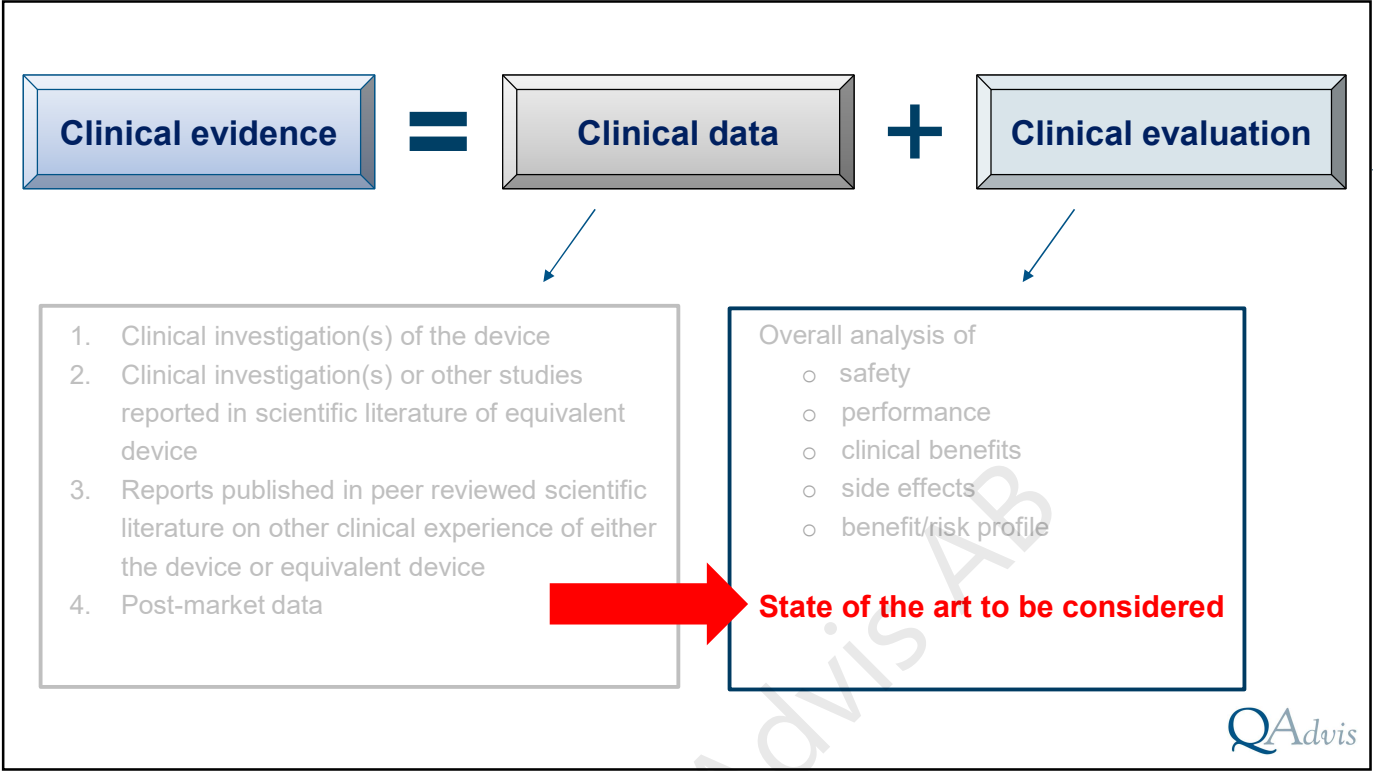


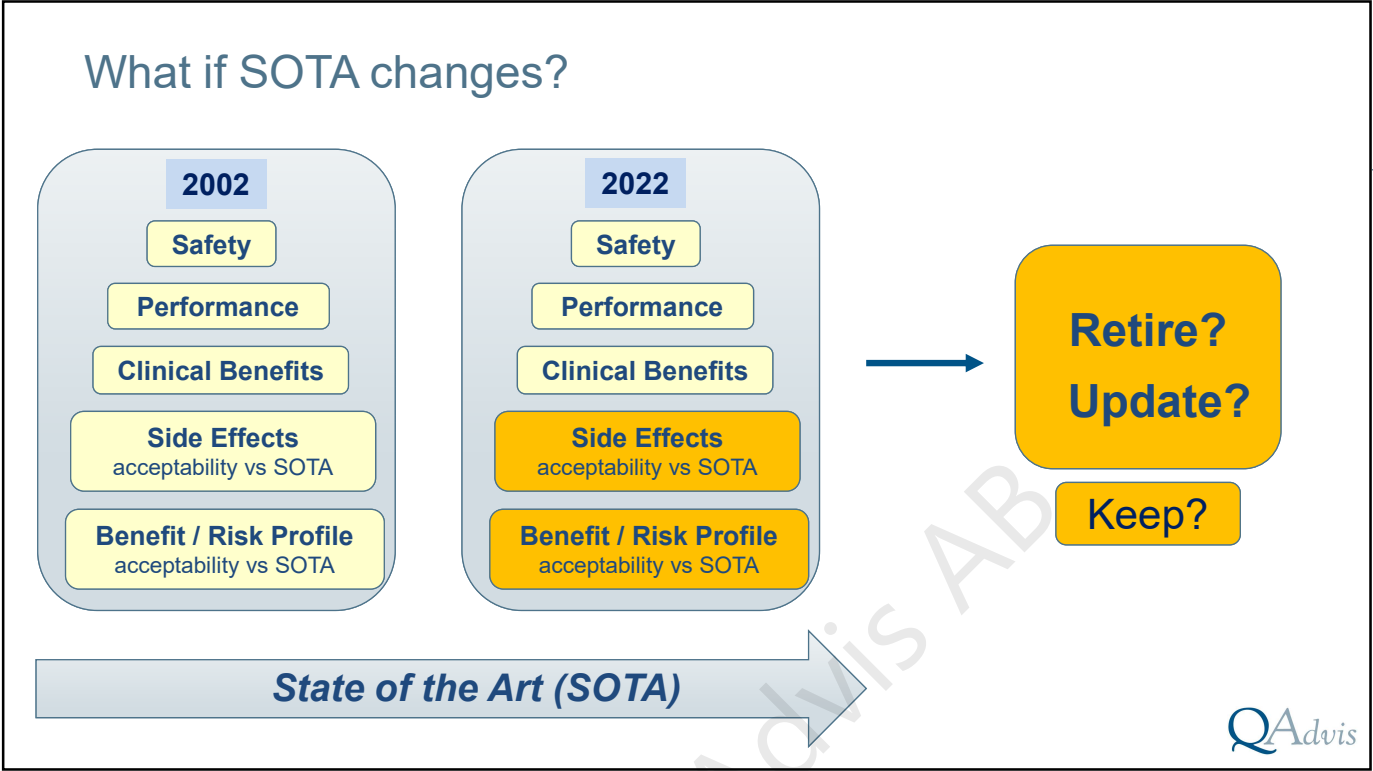
PMCF – Purpose



MDR Annex XIV(6.1)





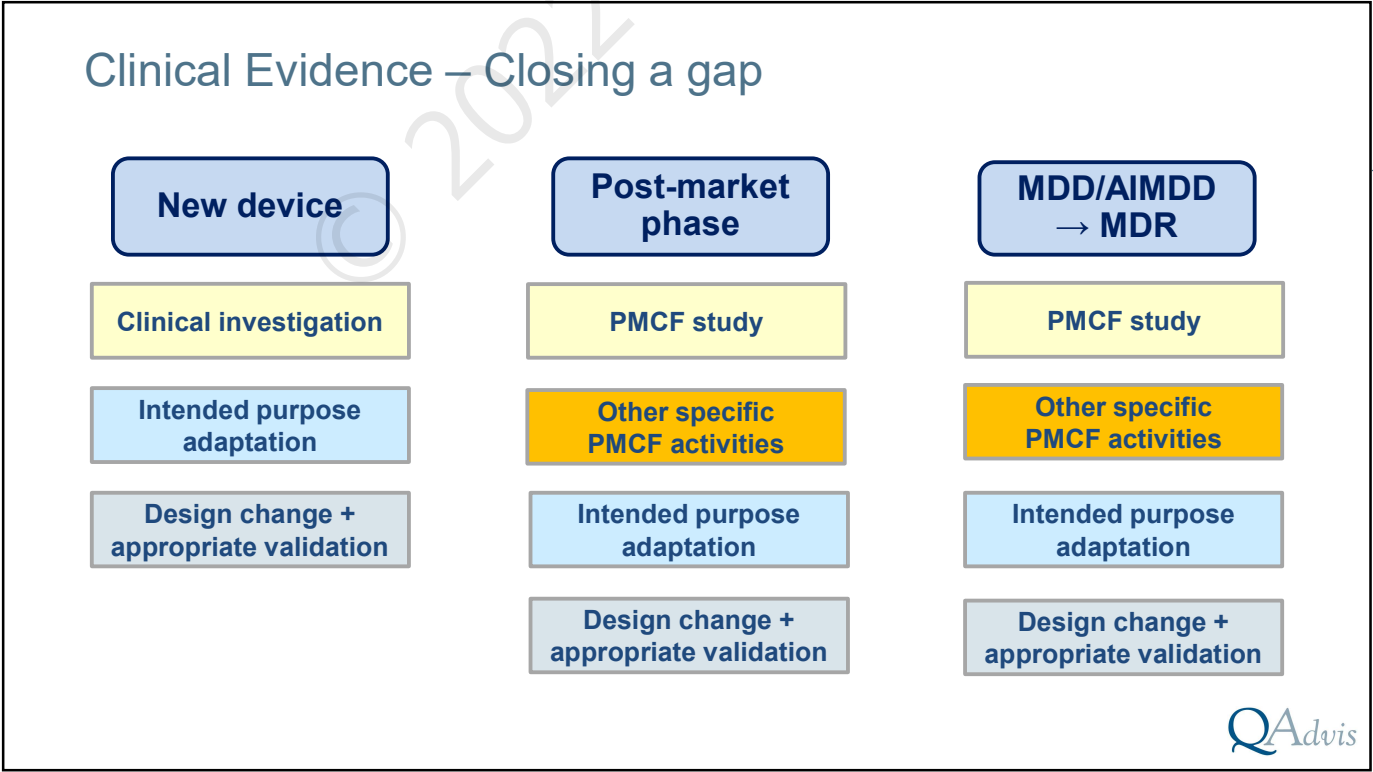


Clinical Evidence – Is it needed?

All devices	Sufficient clinical evidence
General rule	Clinical data <div>Clinical data accepted for MDD may not be sufficient for MDR</div>
Implantable & class III devices	Exempted from the MDR requirement on pre-market clinical investigation
”Routine use devices”	MDCG 2020-6

Well-Established Technology

Design simple, common, stable	<ul style="list-style-type: none">• Interpretation available in MDCG 2020-6• Literature data may be limited – devices not in focus of research• PMCF activities may be necessary prior to MDR• In exceptional cases: post-market surveillance data may provide <i>sufficient clinical evidence</i>
Safety & Performance well-known	
Long history on the market	
Standard of care devices	
Little evolution indications & state of the art	



National Law - Clinical Investigation / PMCF Study

Note: This is a somewhat simplified overview. For detailed information, see: [link to LMV web page](#)

Non-CE marked device

CE marked device
Study *outside* intended use

CE-marked device
Study *within* intended use

- Ethical review
- Application to LMV

- Ethical review
- Notification to LMV

LMV = Läkemedelsverket (Swedish Medical Products Agency)
HSLF-FS 2021:32
MDR Articles 62, 74.1, 74.2, 82

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Clinical Evidence – Closing a gap

- Device registries – national/international
- Systematic reviews / meta-analyses
- **Scientifically sound questionnaires**
 - Objectives & endpoints
 - Rationale for study design
 - Statistical considerations
 - Identification of sources of bias
 - Analysis plan / acceptance criteria

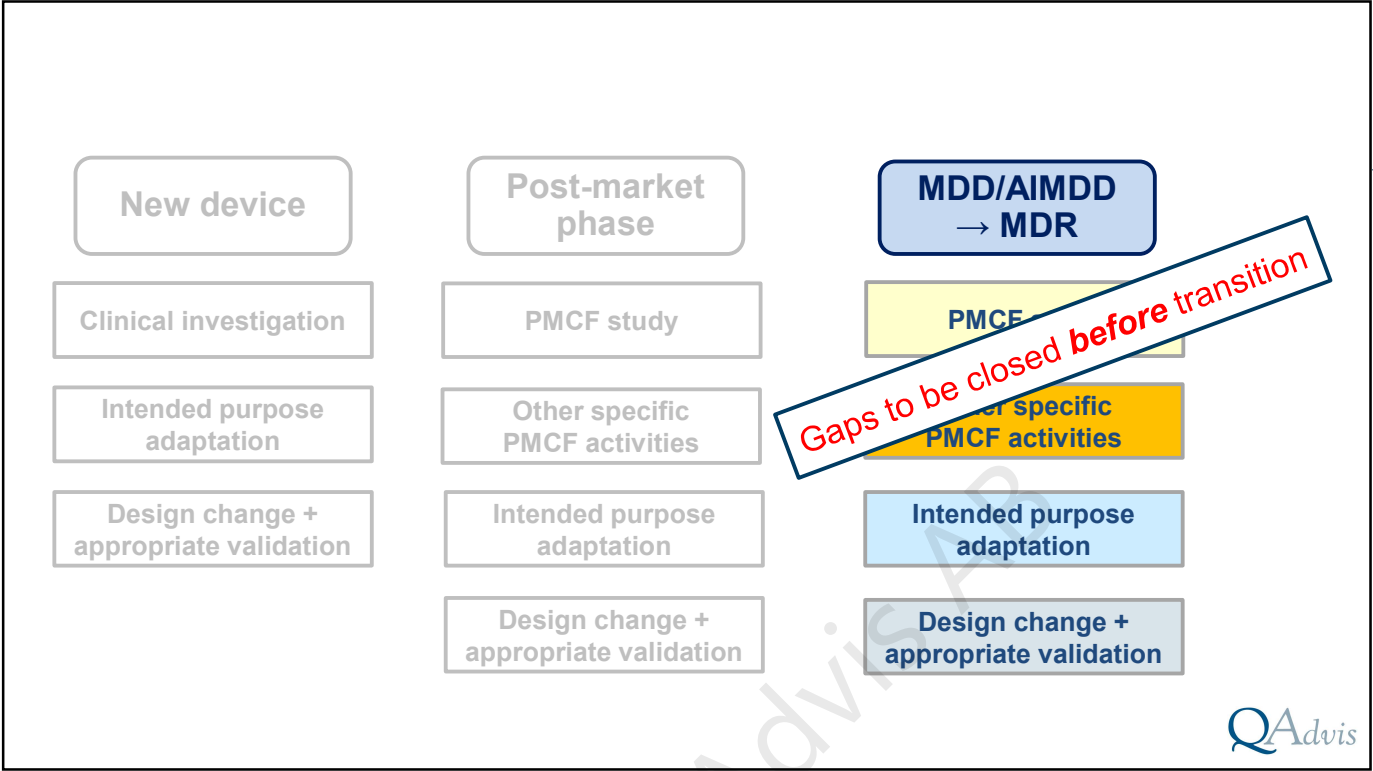
SVENSK STANDARD SS-EN ISO 14155:2020

Klinisk prövning av medicintekniska produkter – God klinisk praxis (ISO 14155:2020)

Clinical investigation of medical devices for human subjects – Good clinical practice (ISO 14155:2020)

MDCG 2020-6

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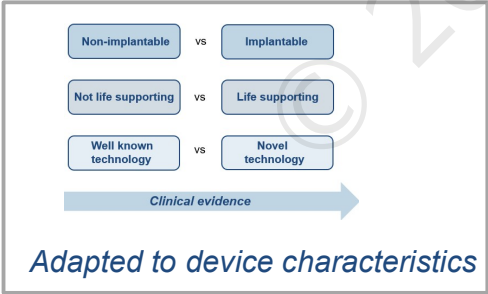
Low-Risk Devices

Clinical evidence – MDR requirements

- No exceptions directly related to device class
- No exceptions for medical device software
- However, . . .



Low-Risk Devices



Specify and justify the level of clinical evidence = manufacturer's responsibility

General rule

Clinical data
Exceptions possible, if duly justified

Clinical data may be omitted

Design
simple, common, stable

Safety & Performance
well-known

Long history
on the market

Standard of care
devices

Little evolution
indications & state of the art

Well-established /
Routine care devices



Summary

Clinical evaluation	All devices
Sufficient clinical evidence	All devices
Clinical data	Most devices
Clinical investigation	Many devices



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