

# EBF Spring Focus Workshop IVDR: our next Challenge?

## Sailing through uncharted IVD waters

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The increasing use of biomarkers for patient selection within argenx clinical trials requiring IVD testing highlights the need to align processes to comply with IVDR

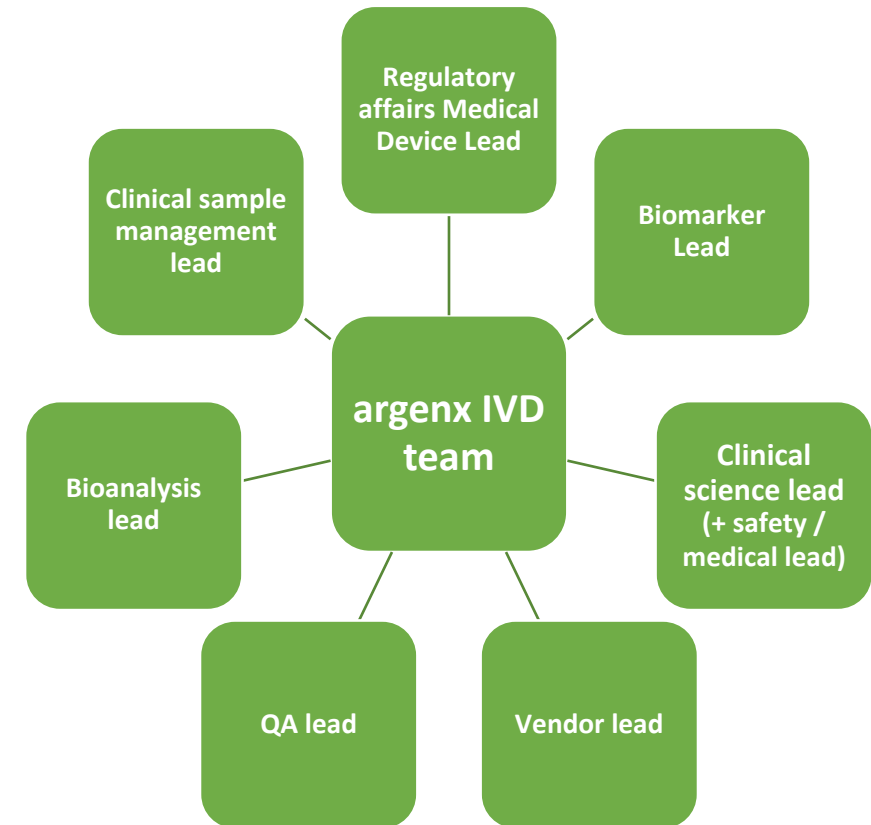
**argenx is in uncharted waters within the IVD space**  
 → finding our way and in doing so gain insights.

IVD team: Multi-disciplinary team supporting & leading early to late IVD discussions, strategy and development.

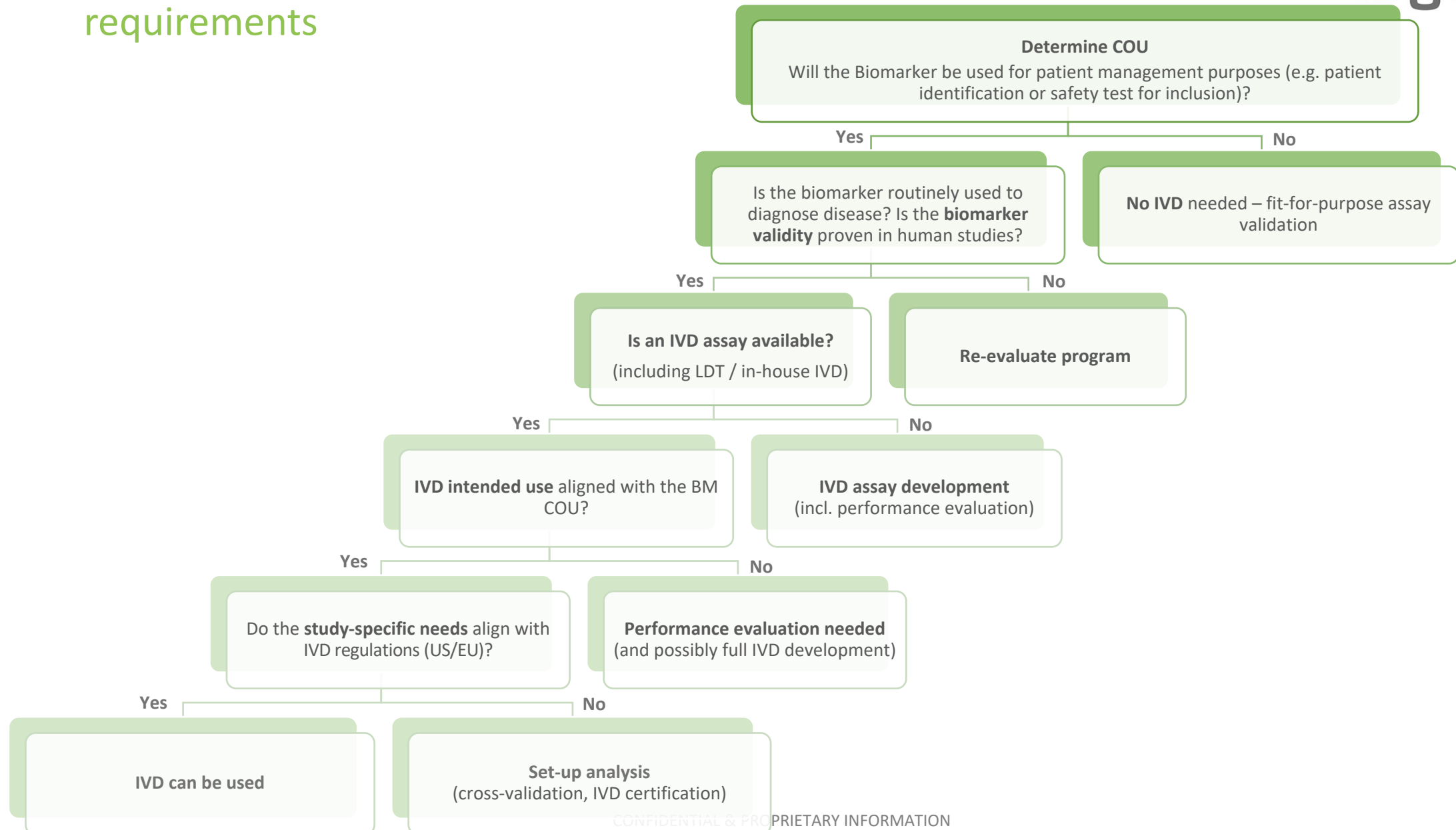
IVD expertise should be “tapped into” early to ensure we

- a) avoid unnecessary IVD burden & highlight risks,
- b) optimally deploy regulated tests & IVDs within our clinical studies and,
- c) understand the project consequences and have the right guidance to avoid panic scramble

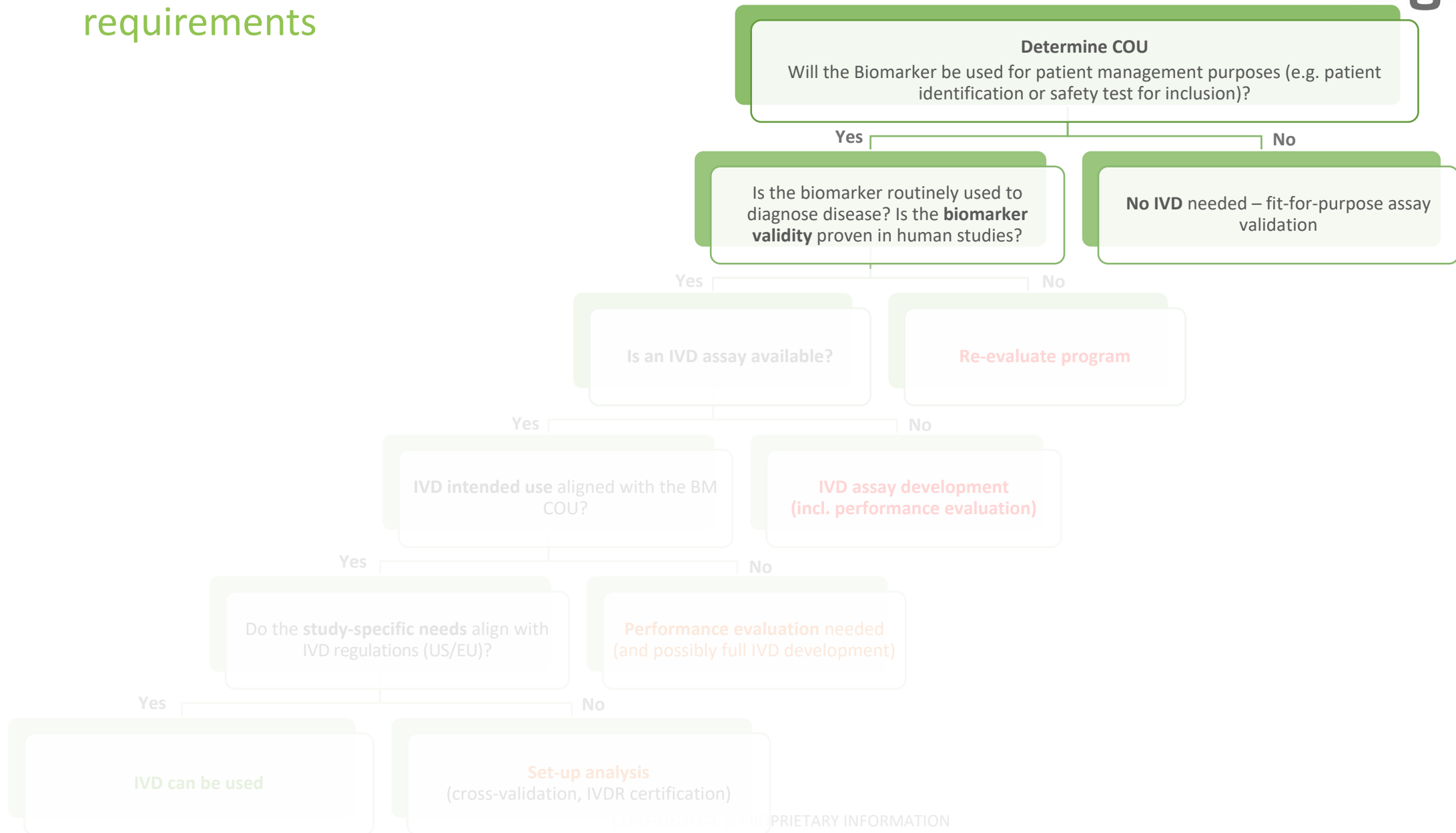
→ Strong case by case situation



# Decision tree to support IVD requirements



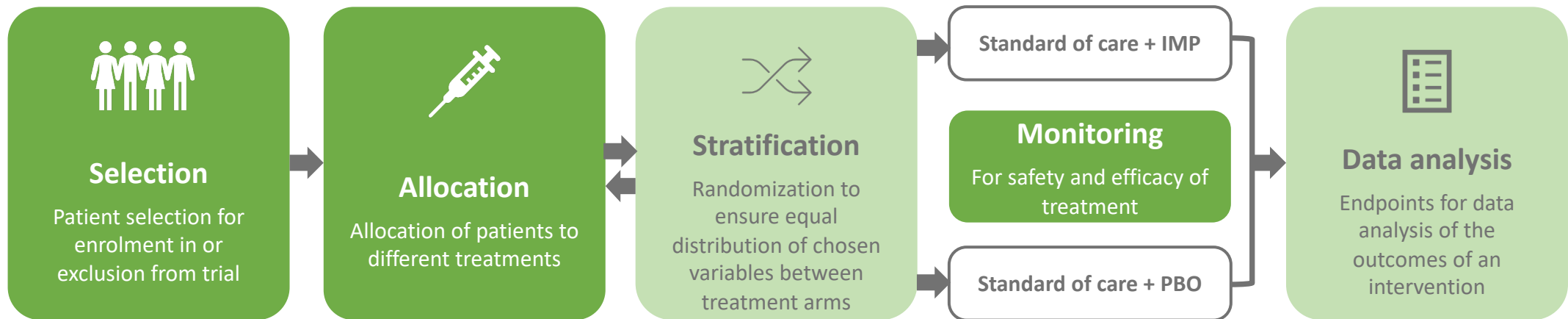
# Decision tree to support IVD requirements



COU determines the need for IVD

# COU determines the need for IVD assay

IVD only applies when used for the purpose of **medical management decision making of trial subjects** within the trial, e.g. diagnosis, preventing, monitoring, or treating diseases or other medical conditions in humans



**Dark Green** Assays performed for these processes are likely **considered IVD** - reported data going back to the HCP for individual patient decision

**Light Green** Assays performed for these processes are likely not to impact patient management decision and hence, **not considered IVD**

argenx examples

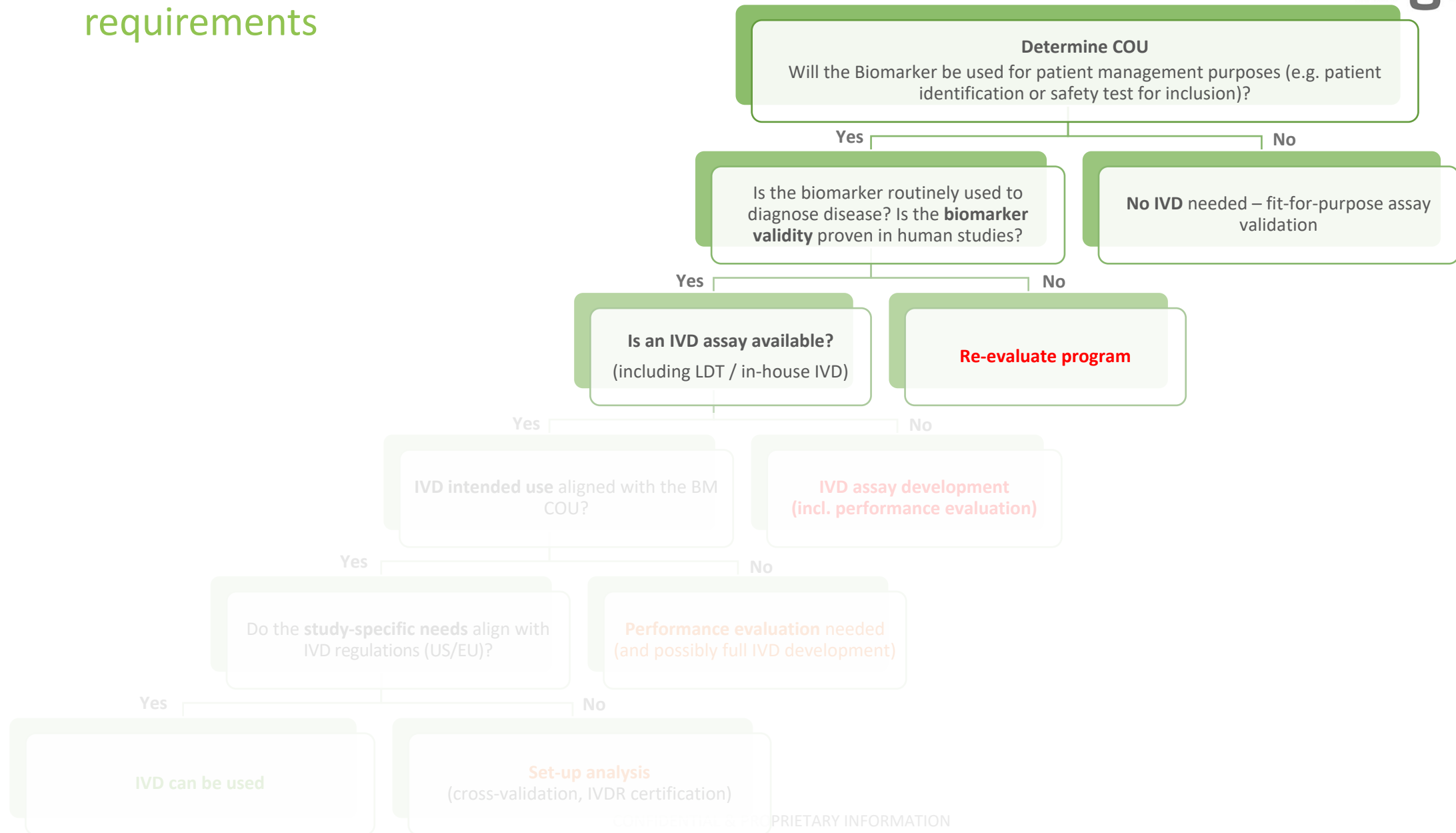
Auto-antibody tests used for patient eligibility  
e.g. anti-AChR Ab in the Ph3 efgartigimod study in MG

Auto-antibody tests used for patient stratification  
e.g. anti-MuSK Ab in the Ph3 efgartigimod study in seronegative (anti-AChR Ab) MG

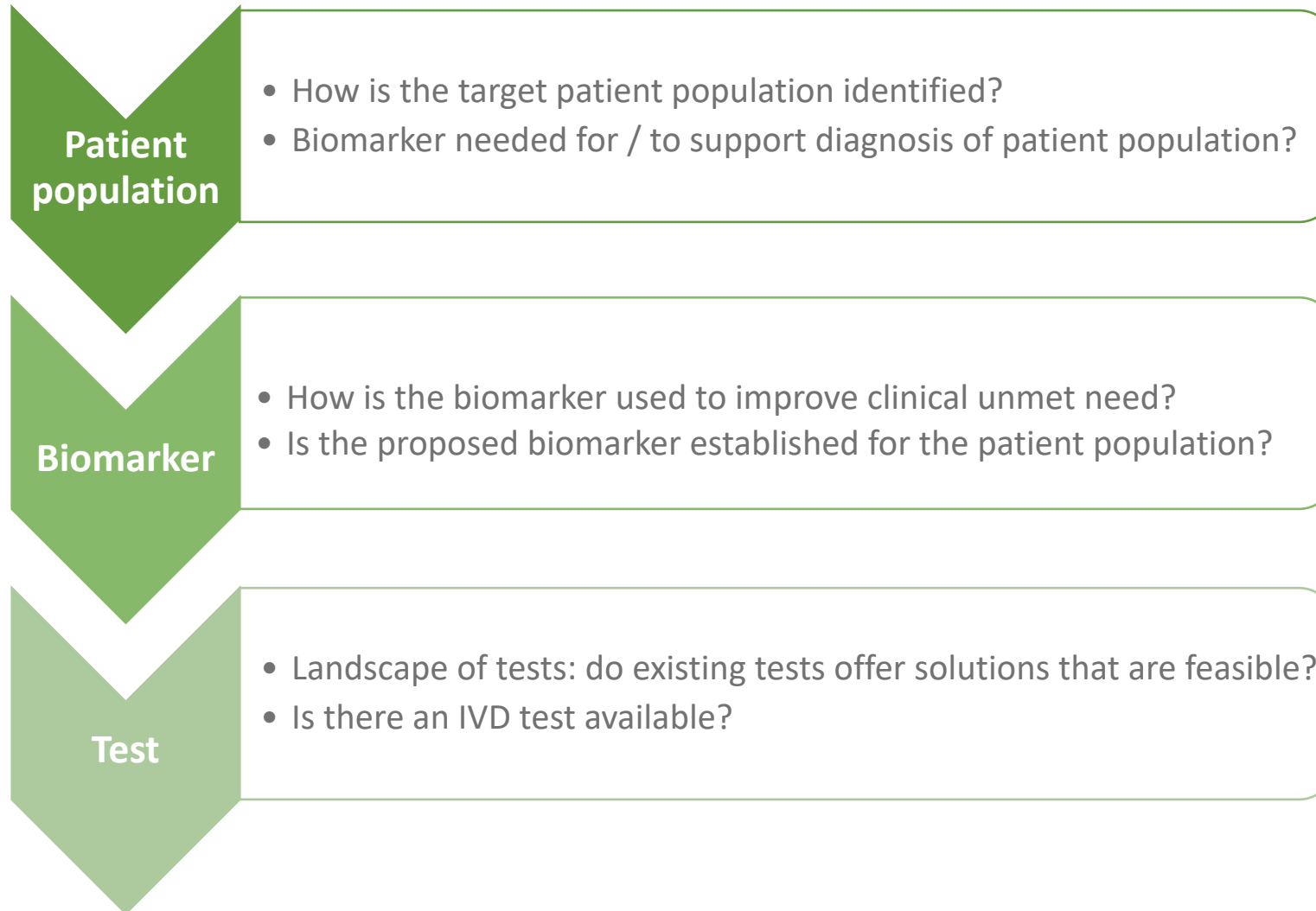
Auto-antibody tests used for PD read-out  
e.g. anti-AChR in the Ph3 efgartigimod study in MG

All clinical PK and ADA assays

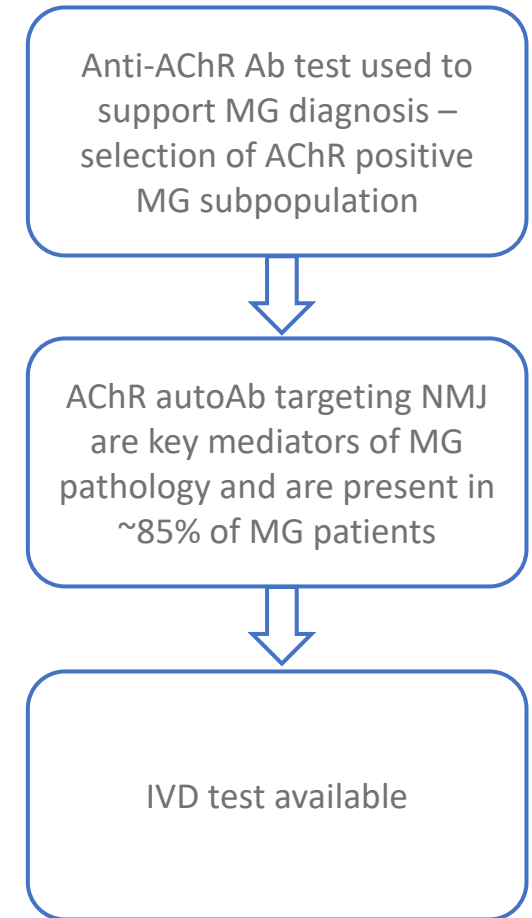
# Decision tree to support IVD requirements



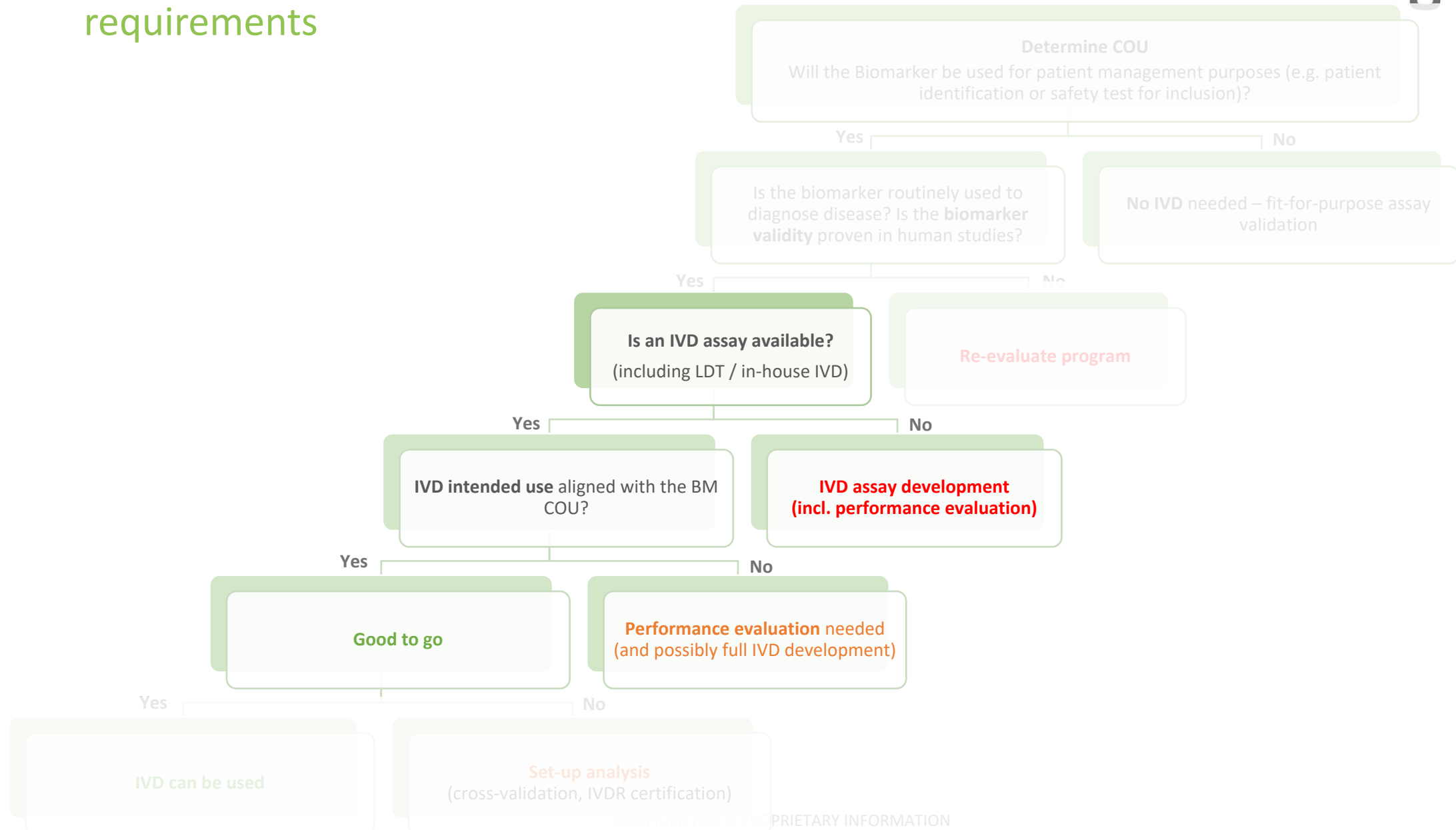
# Questions to ask to understand unmet need (from patient population & test perspective)



## argenx example



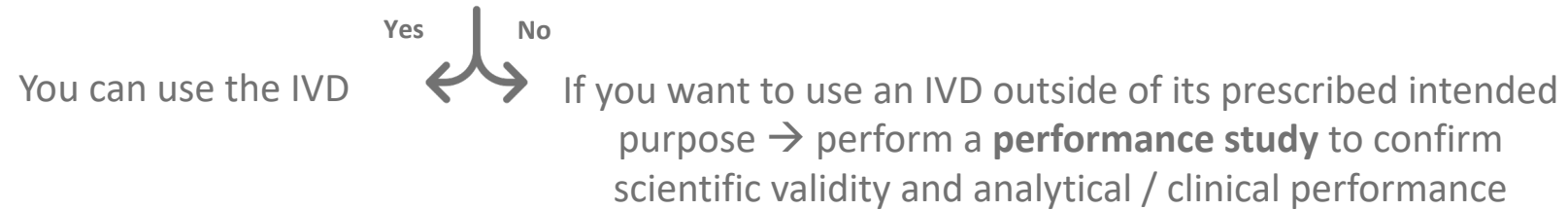
# Decision tree to support IVD requirements





# Critical to check whether the biomarker COU aligns with the intended use of the IVD

Does the intended use of the IVD match with the intended use of the biomarker?



argenx example

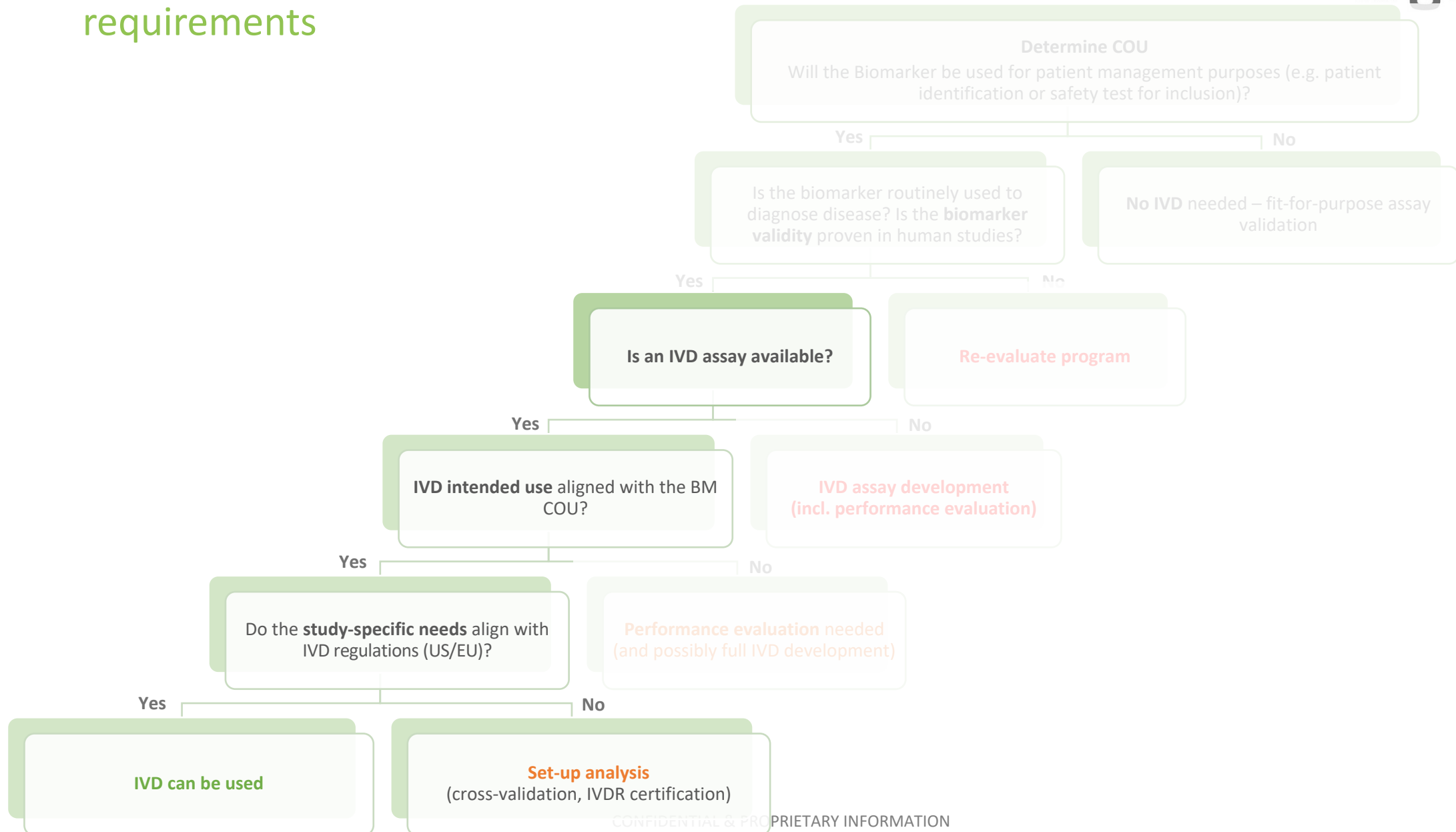
anti-AChR autoAb IVD test in the Ph3 efgartigimod study in MG

anti-TSHR autoAb IVD test: team considered to use as eligibility criterion in the Ph3 efgartigimod study in TED but IVD assay is not FFP (Graves' disease)

At argenx very often a **biomarker is used for different COU** e.g. auto-antibody tests → **different assay needed!**

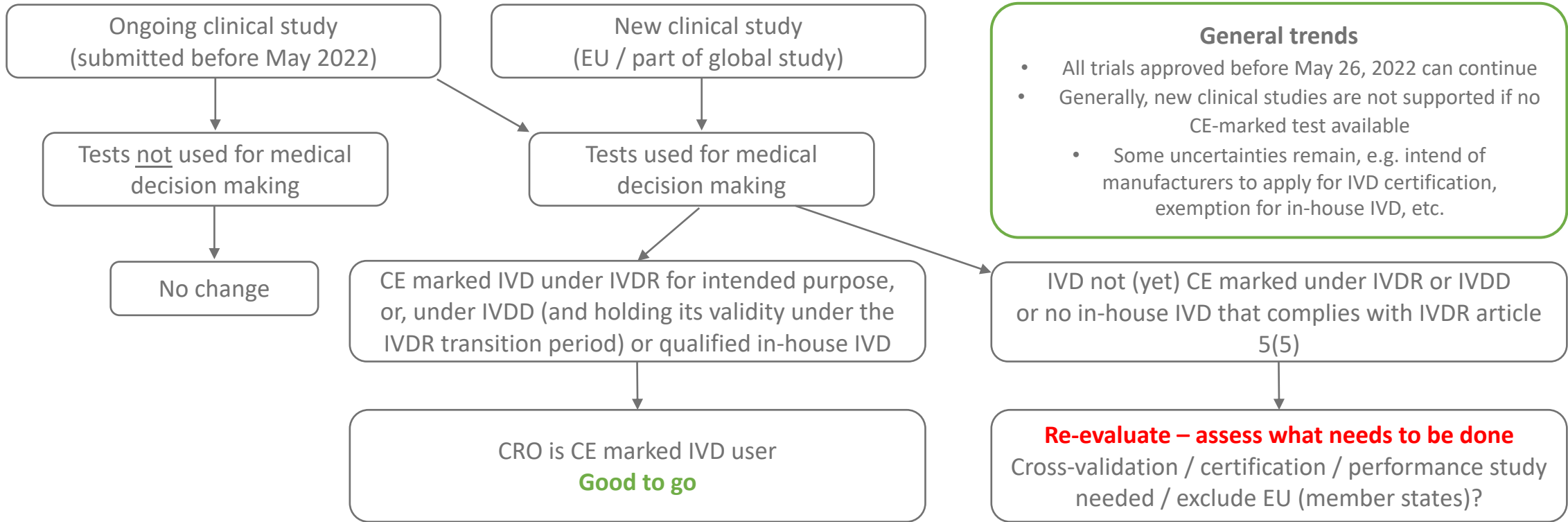
- Diagnostic / patient eligibility purpose: IVD kit needed with qualitative read-out
  - Pharmacodynamic purpose: ROU / GCLP assay needed with relative quantitative read-out
- Different assay characteristics required thus different assay validation needs to be done
- Different lab requirements

# Decision tree to support IVD requirements



# Impact of EU IVDR for argenx clinical studies

## Risk assessment process



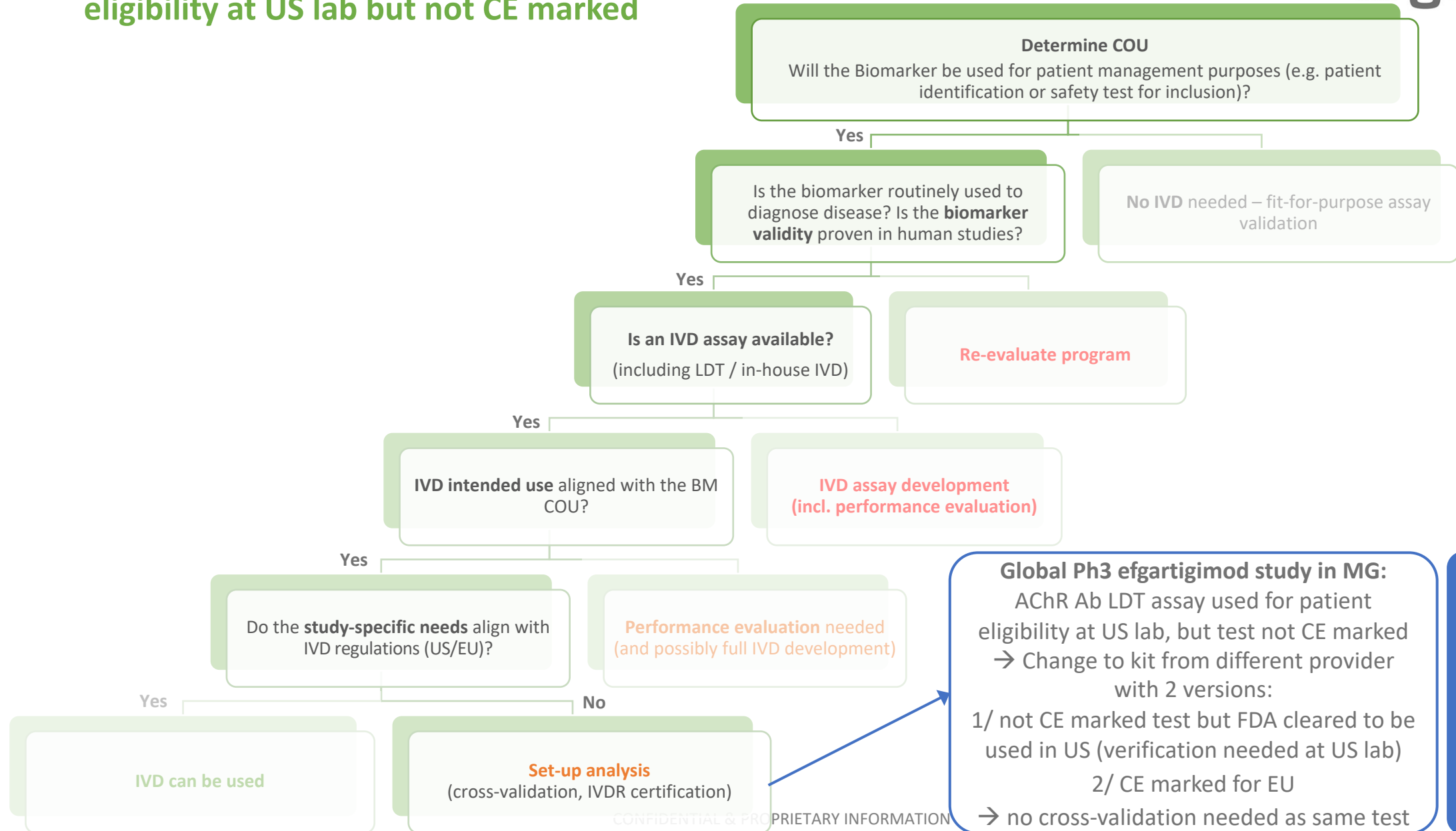
**General trends**

- All trials approved before May 26, 2022 can continue
- Generally, new clinical studies are not supported if no CE-marked test available
  - Some uncertainties remain, e.g. intend of manufacturers to apply for IVD certification, exemption for in-house IVD, etc.

*Sponsor is responsible for CRO oversight*

**Argenx IVD team is mapping IVD needs in our clinical studies and compliance of IVD assays**

# AChR Ab LDT assay used for patient eligibility at US lab but not CE marked

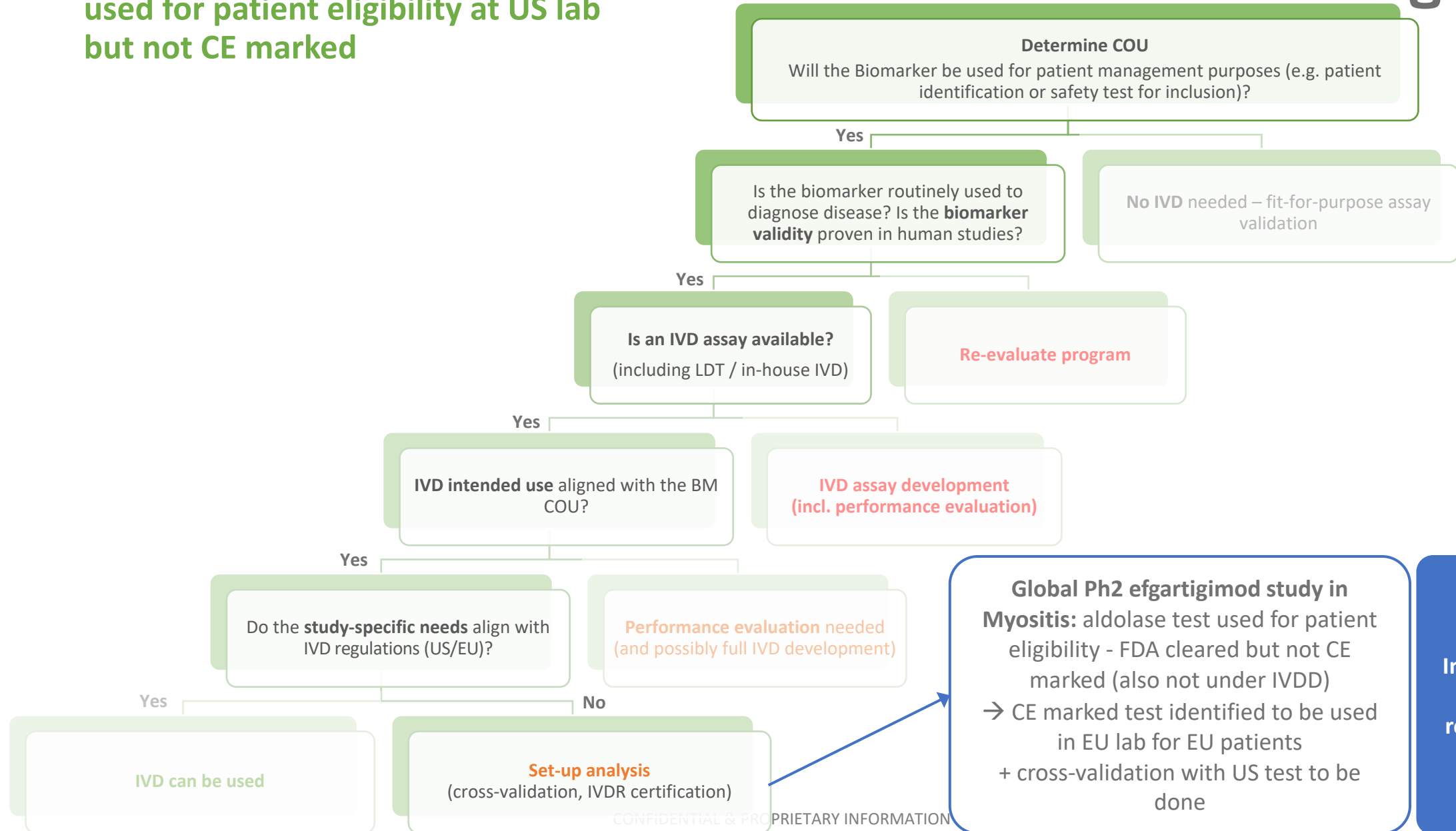


**Global Ph3 efgartigimod study in MG:**  
 AChR Ab LDT assay used for patient eligibility at US lab, but test not CE marked  
 → Change to kit from different provider with 2 versions:  
 1/ not CE marked test but FDA cleared to be used in US (verification needed at US lab)  
 2/ CE marked for EU  
 → no cross-validation needed as same test

**Impact on clinical study timelines**

Case study

# Aldolase IVD test used used for patient eligibility at US lab but not CE marked



**Global Ph2 efgartigimod study in Myositis:** aldolase test used for patient eligibility - FDA cleared but not CE marked (also not under IVDD)  
 → CE marked test identified to be used in EU lab for EU patients  
 + cross-validation with US test to be done

**Impact on clinical resources**

# Conclusions



- As a result of the recent developments in IVD regulations and the increasing use of biomarkers for patient selection **at argenx**, we felt there was the **need to align processes**.
- A **cross-functional working group** has been formed to provide support and guidance to teams to ensure consistency and efficiency
- A **comprehensive flowchart** was developed to streamline the process of identifying the need of an IVD assay based on the context of use.
  - The flowchart guides users in assessing the availability and suitability of an IVD assay
  - It supports the evaluation of the compatibility of the assay and its certifications with study-specific requirements
  - It outlines necessary steps in case of discrepancies
- Assessment of IVD assay availability and suitability should be done in close **collaboration** with clinical CROs and diagnostic labs.

# Acknowledgements

## Argenx IVD team

- Mayank Choudhary
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- Titilayo Majekodunmi
- Marlies van den Ende
- Jamie McKay
- Marqus Hamwright

## Clinical project teams represented by

- MG team: Sophie Steeland & Delphine Masschaele
- Myositis team: Leentje De Ceuninck
- TED team: Estefanía Urdániz