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SCIENCE MEDICINES HEALTH

Perspectives of EMA on VAC4EU

EU Ecosystem for monitoring of post-licensure
vaccine benefit and risk: from ADVANCE to VAC4EU

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An agency of the European Union





In this presentation:

What is the place of VAC4EU in the landscape of post-authorisation studies performed, commissioned or required by EMA?

Premise

VAC4EU fully implements the best practice solutions developed by ADVANCE (see previous presentation)

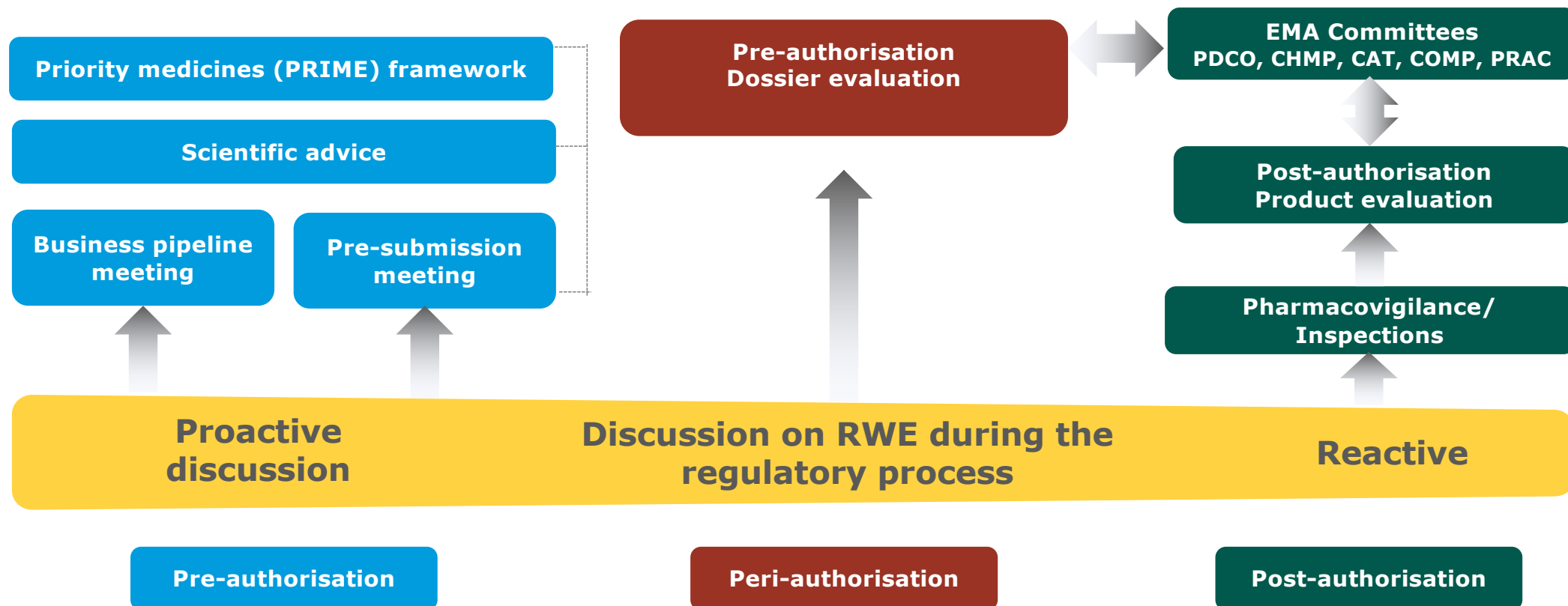


- Understanding medical needs
- Natural course of disease/disease burden
- External comparator group
- Definition of target population
- Background rates of adverse events of special interest
- Planning of post-authorisation activities
- Monitoring of vaccine and immunisation programme vaccine safety and effectiveness
- Vaccination coverage
- Investigation of safety concern (post-authorisation safety study)
- Post-authorisation efficacy study
- Evaluation of effectiveness of risk minimisation measures
- Economic analysis to inform immunisation recommendations

Need for RWE in vaccine life-cycle



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Discussion of need for RWE during the authorisation process



- <1% of medicinal products with marketing authorisation in the EU are vaccines
- 5.5% of spontaneous case reports of suspected adverse drug reactions (ADRs) received for all medicines in the EudraVigilance post-marketing module are related to vaccines
- 12 safety issues for 6 vaccines were discussed by the PRAC since September 2012
- 4% of studies registered in the EU PAS register concern vaccines

Relatively few regulatory procedures at EU levels for safety concerns on vaccines...

... but need for quick and complete investigation in cases of crises

e.g. Guillain-Barre syndrome, narcolepsy, anaphylactic shock, CRPS, POTS,
(lack of) effectiveness

Requests to vaccine manufacturers

- Scientific Advice and protocol assistance for method and product development
- Post-authorisation safety (PASS) or efficacy (PAES) study imposed as legal obligation
- Specific obligation in the framework of a marketing authorisation granted under exceptional circumstances
- Requirement in the risk management plan (RMP) to investigate a safety concern or to evaluate the effectiveness of risk minimisation activities
- Requests for data in the course of safety signal assessment

PASS/PAES:

- data source cannot be imposed to vaccine manufacturer
- protocol and study report to be endorsed by PRAC/CHMP for imposed studies
- may concern class of vaccines rather than single product
 - joint study strongly encouraged

EMA in-house studies

- In-house RWD studies to support Committees (mainly PRAC)
 - two databases selected through procurement procedure: THIN (UK), IMS (FR and DE)
 - 2013-2017: 46 THIN studies – 29 IMS studies

EMA funded studies

- External studies funded to support EMA Committees – 21 studies launched in 2013-2018 – 1 on vaccine (H1N1 pandemic vaccine)
- Topics related to substance or class of products
- 9 framework contractors selected through procurement procedure (2018-2021)
- Re-opening of competition for specific study
- Sub-contracting is possible

EU Regulatory network study

- Joint study of national authorities with access to electronic health records/claims data



COUNCIL RECOMMENDATION

of 7 December 2018 on strengthened cooperation against vaccine-preventable diseases
(2018/C 466/01)

the Council welcomes the Commission's intention to take the following actions, in close cooperation with the Member States:

(...)

10. With the support of the European Medicines Agency and in cooperation with the ECDC, continuously monitor the benefits and risks of vaccines and vaccinations, at EU level, including through post-marketing surveillance studies

METHODS

- Increased power and statistical validity of study results
- Common methodology, improved standardisation of reporting and comparability of results
- Dashboard providing rapid visualisation of key indicators
- **Culture of methodological development**

CONTENT

- Large population and geographical area
- Potentially, wide range of outcomes and vaccines used in the EU
- Comparison of vaccine safety and effectiveness across different populations, regions, immunisation schedules
- Improved timeliness of results for new vaccines or safety concerns arise
- Possibility to quickly address media concerns and counter vaccine hesitancy

Providing confidence in data quality: EMA Qualification ?

EMA Qualification

- Scientific advice on acceptability of a specific method in the context of research and development of pharmaceuticals
- Given by the Committee for Medicinal Products for Human Use (CHMP) on the basis of recommendations by the Scientific Advice Working Party (SAWP).
- Based on assessment of data submitted by applicant
- Public consultation before final adoption of opinion

Providing confidence in data quality: EMA Qualification ?



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Procedure No.: EMEA/H/SAB/080/1/QA/2017
EMA/CHMP/SAWP/802259/2017
Product Development and Scientific Support Department

Qualification Opinion

The European Cystic Fibrosis Society Patient Registry (ECFSPR)

EMA/CHMP/SAWP/423488/2018
Committee for Medicinal Products for Human Use (CHMP)

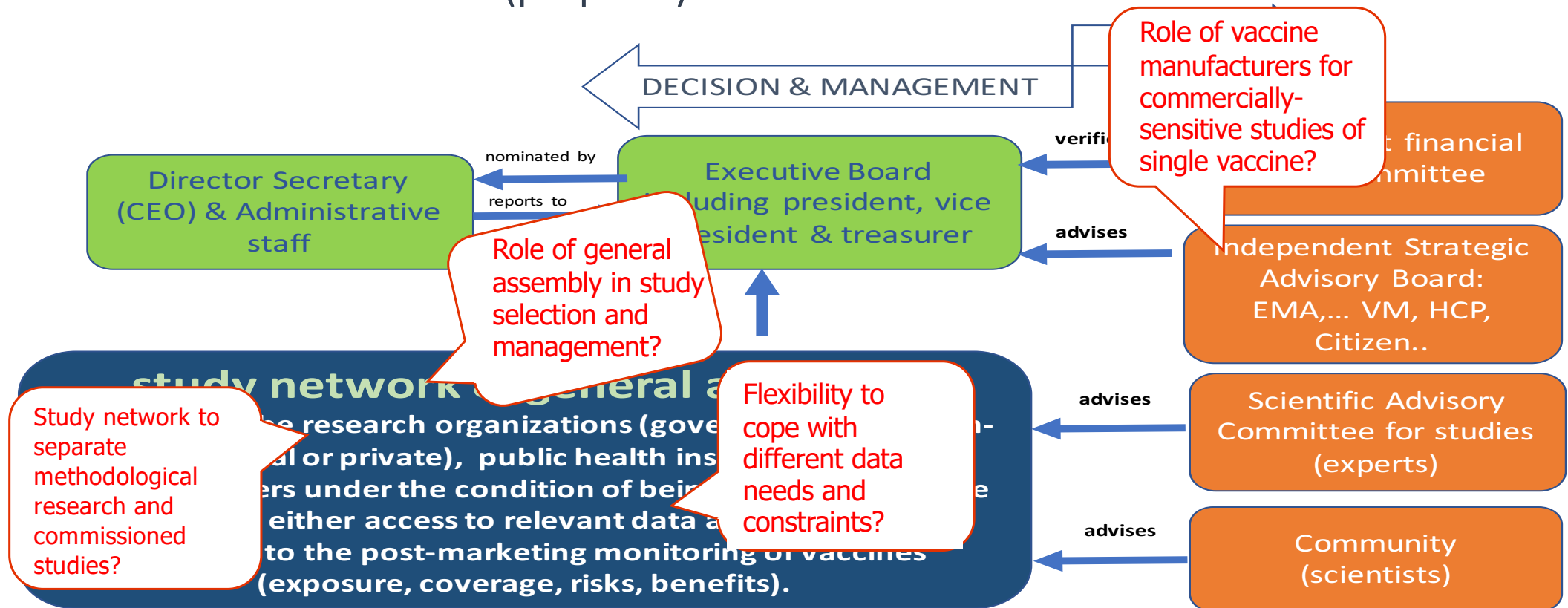
Draft qualification opinion on Cellular therapy module of
the European Society for Blood & Marrow Transplantation
(EBMT) Registry

“The current status of ECFSPR (coverage, core dataset, governance, quality assurance approaches and completeness of core variables) may allow its use for:

- **Drug utilisation studies** for total recorded population and subgroups
- **Drug efficacy/effectiveness studies**
 - Concurrent assessment of effectiveness, in specific circumstances
 - Source of historical control data for comparative purposes in the context of RCTs (i.e. when this would be the only reasonable option)
- **Drug safety evaluation**
 - Safety data with focus on important identified and potential risk: incidence, comparative risk assessment studies ”

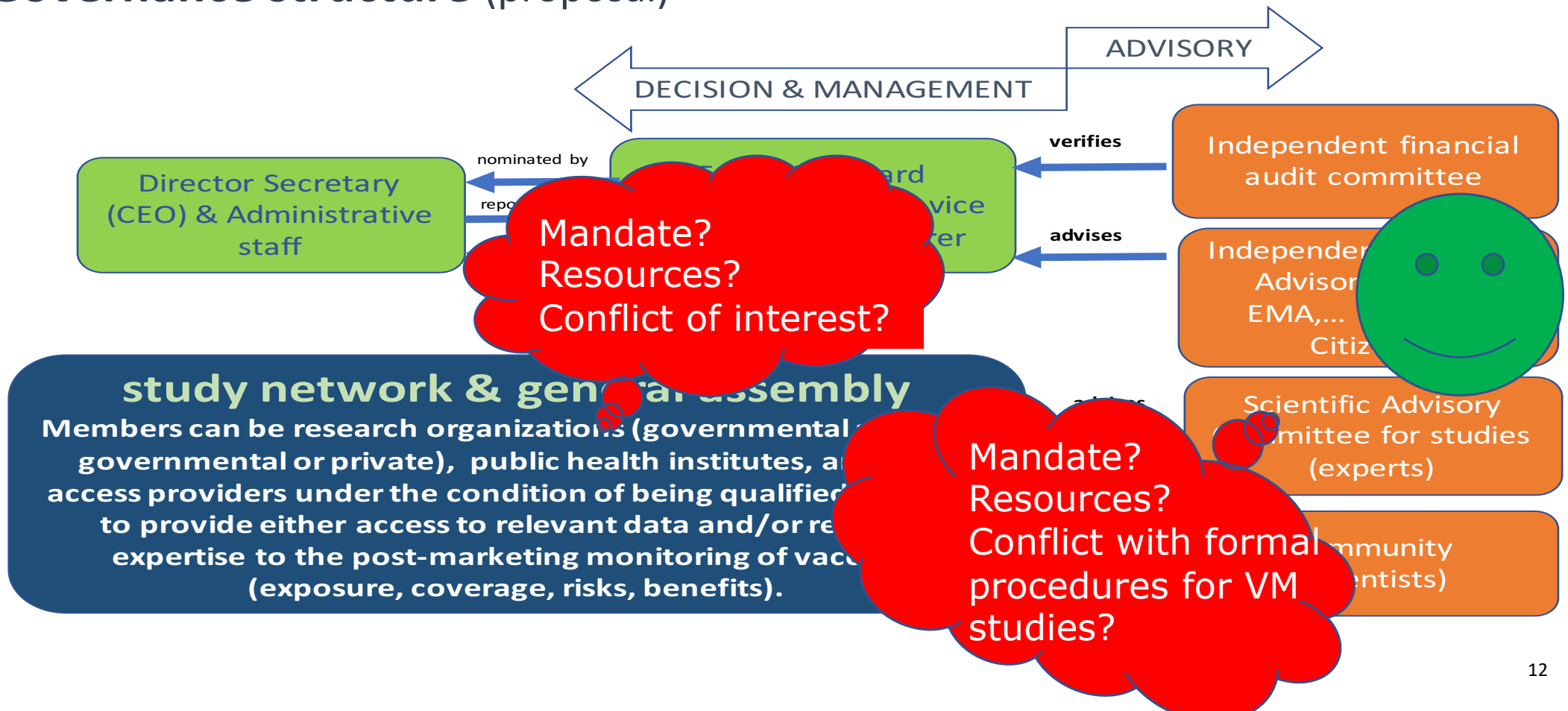
Outstanding questions

Governance structure (proposal)



Role of EMA?

Governance structure (proposal)





- VAC4EU study network well placed to meet the needs of an European infrastructure for studies on vaccine benefits and risks
- High potential as source of RWE for regulatory activities on vaccines
- Solid foundation based on ADVANCE deliverables
- EMA Qualification should be considered
- Core of the infrastructure should be the study network
- Other structures should facilitate activities of the study network



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Thank you for your attention

Further information

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