



EUROPEAN MEDICINES AGENCY
SCIENCE MEDICINES HEALTH

Introduction to the EMA and how patients can be involved in EMA activities

Program EUpALS Scientific Webinar

27 October 2021

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Public and Stakeholders Engagement Department





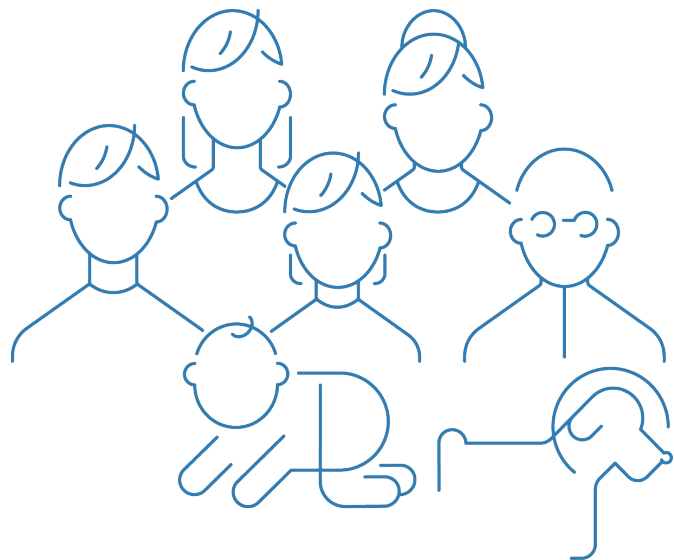
Outline

- What the European Medicines Agency (EMA) does
- Journey of patient involvement
- How EMA engages with patients
- Patient involvement in regulatory lifecycle
- Support and training by EMA
- Conclusions
- *Response to COVID-19* (if there is time)



EMA in the EU

Who do we work for?



zdrowie zdrowie
zdravlje Gesundheit
salud υγεία saúde
tervist veselība
salute здраве saħħa
terveys sundhed
health hälsa sláinte
egészség'
zdravje zdraví
gezondheid
sveikata
santé sănătate

27 member
states

21.5 % of global sales
of medicines

24 official
languages

Classified as public by the European Medicines Agency



What we do

Protect human and animal health



Facilitate development and access to medicines



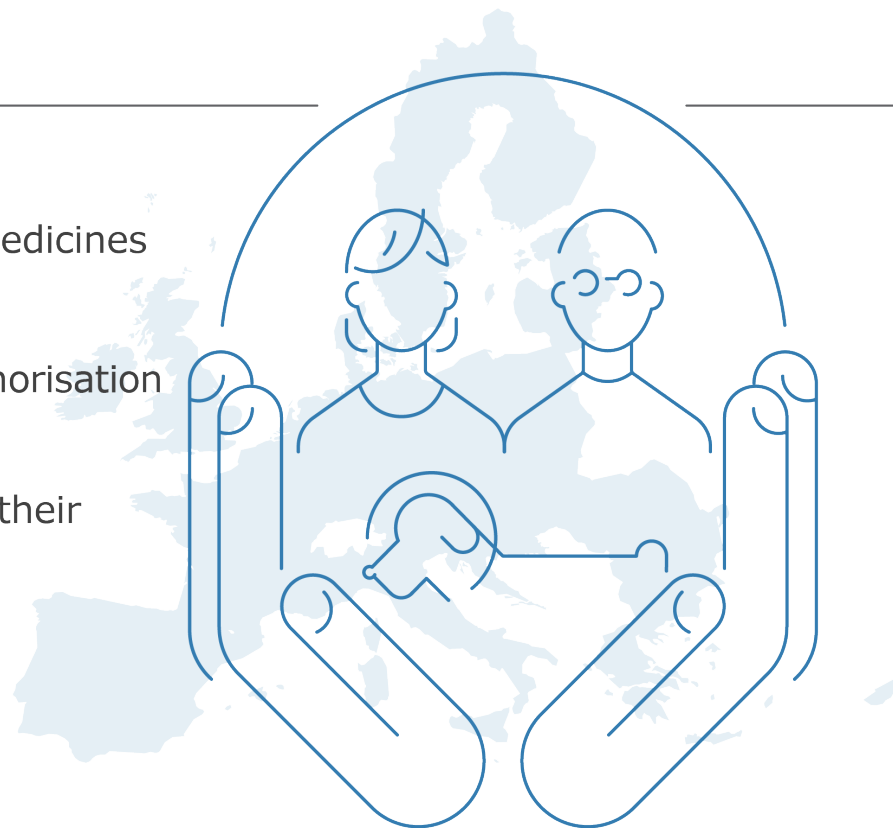
Evaluate applications for marketing authorisation



Monitor the safety of medicines across their life cycle



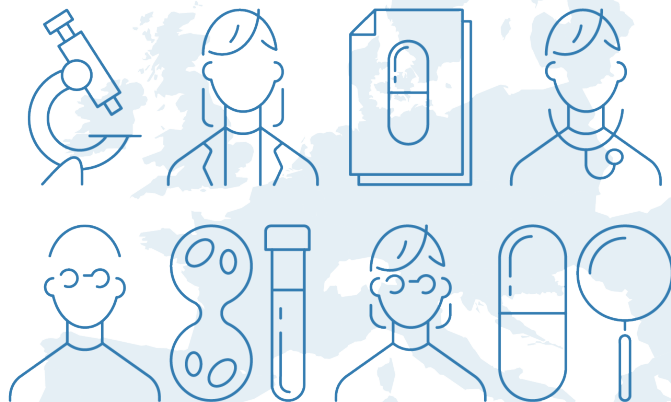
Provide reliable information on human and veterinary medicines to patients and healthcare professionals





Who we are

~4000 scientific experts
from across Europe



7 Scientific
Committees

CHMP

CVMP

COMP

HMPC

PDCO

CAT

PRAC

1 Management
Board

27 Member States' representatives

4 Civil society representatives

2 European Commission representatives

2 European Parliament representatives



1995 EMA established

~800 staff
members



The European medicines regulatory network



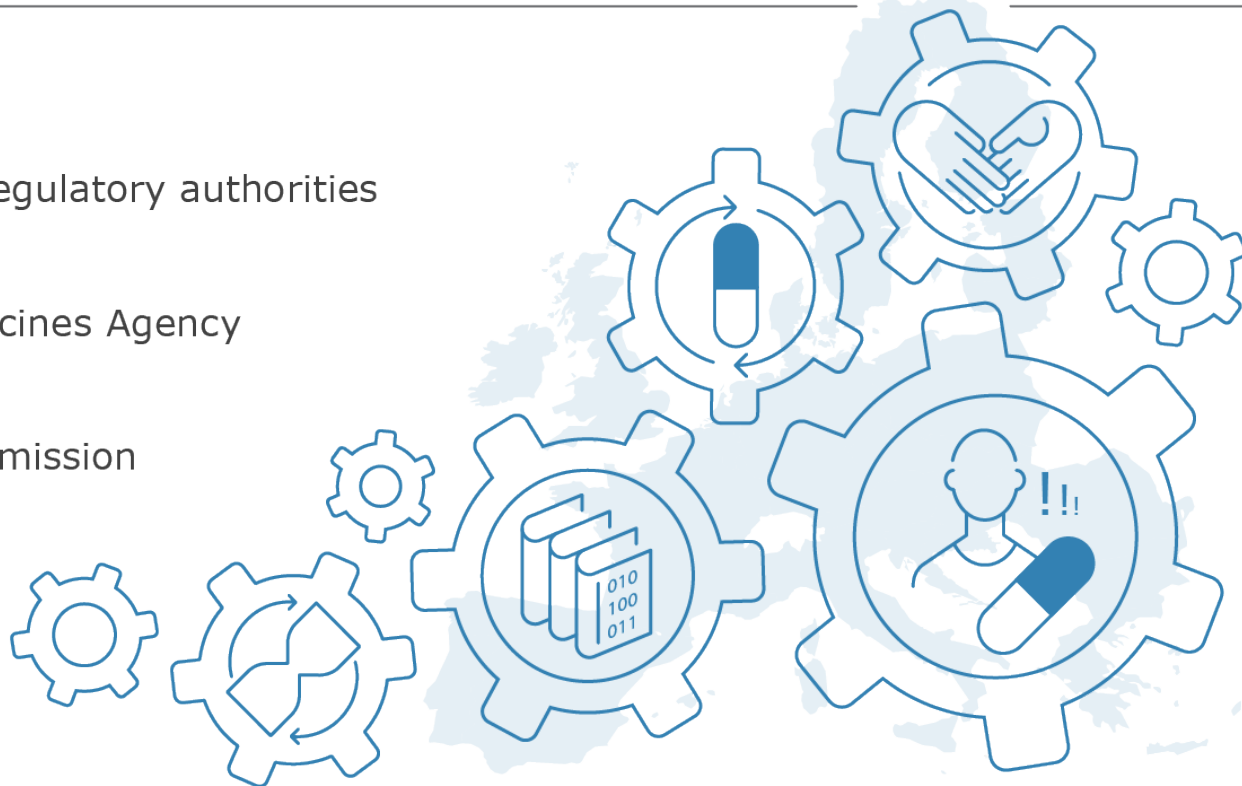
~50 national regulatory authorities



European Medicines Agency



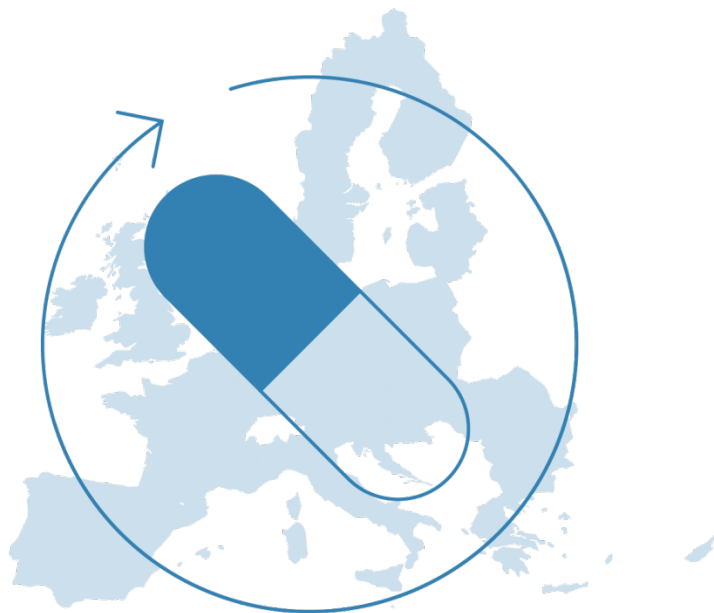
European Commission



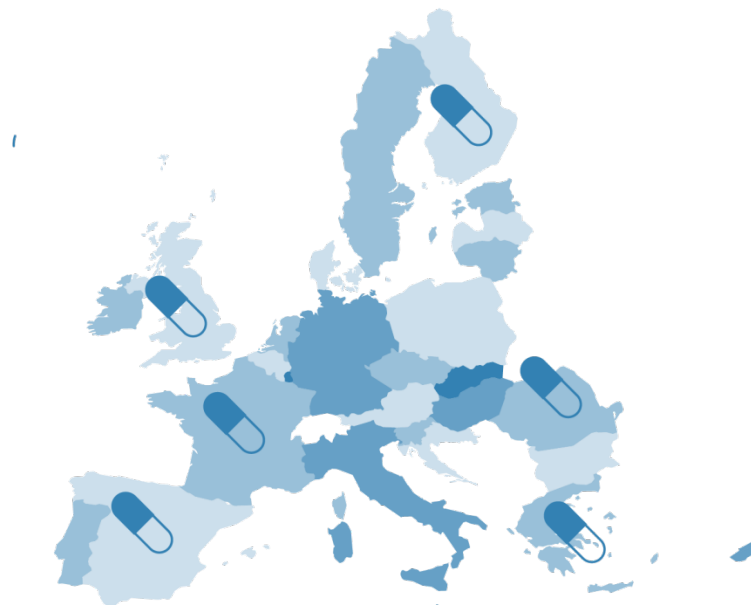


How are medicines approved?

Different authorisation routes: one set of common rules



Centralised procedure (via EMA)



National procedures (via Member States)



Which medicines are approved through the centralised procedure?



- Human medicines containing new active substances for the treatment of HIV/AIDS cancer, diabetes, neurodegenerative diseases, auto-immune, and other immune dysfunctions, and viral diseases
- Medicines derived from biotechnology processes, such as genetic engineering
- Advanced therapy medicines, such as gene-therapy, somatic cell-therapy or tissue-engineered medicines
- Officially designated 'orphan medicines' (medicines used for rare human diseases)
- Veterinary medicines for use as growth or yield enhancers



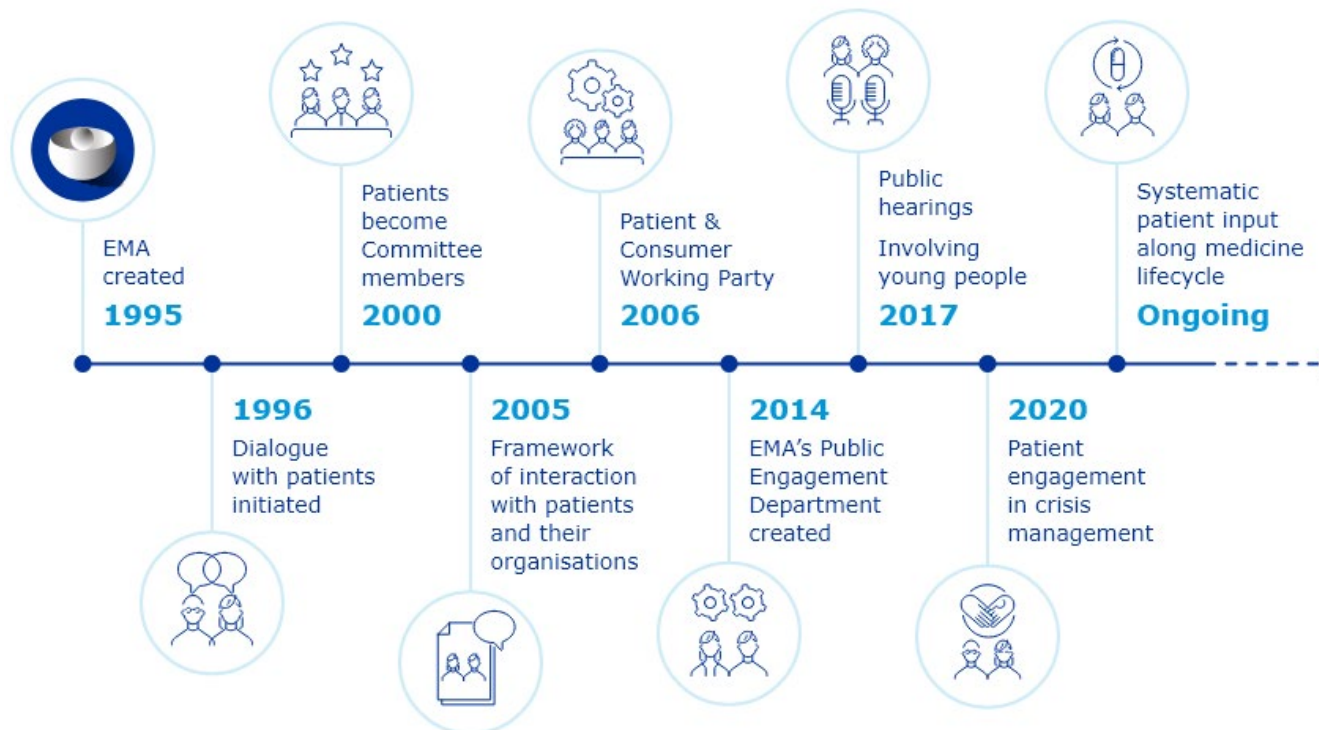
What EMA is not responsible for

- Authorisation of clinical trials
- Pricing or availability of medicines
- Advertising of medicines
- Patents on medicines
- Homoeopathic medicines
- Food supplements and cosmetics
- Develop treatment guidelines or provide medical advice





Interaction with patients and consumers: a progressive journey...



EMA scientific committees and Management Board

7 Scientific Committees

1 Management Board

CHMP

27 Member States' representatives

CVMP

4 Civil society representatives 



COMP

2 European Commission representatives

HMPC

2 European Parliament representatives



PDCO



CAT



PRAC



~800 staff members

Representing their
community

*Management Board
EMA Scientific Committee Members*



**Patient
membership**



Working parties –PCWP and HCPWP



Patients and Consumers Working Party (PCWP)



Healthcare professional working party (HCPWP)

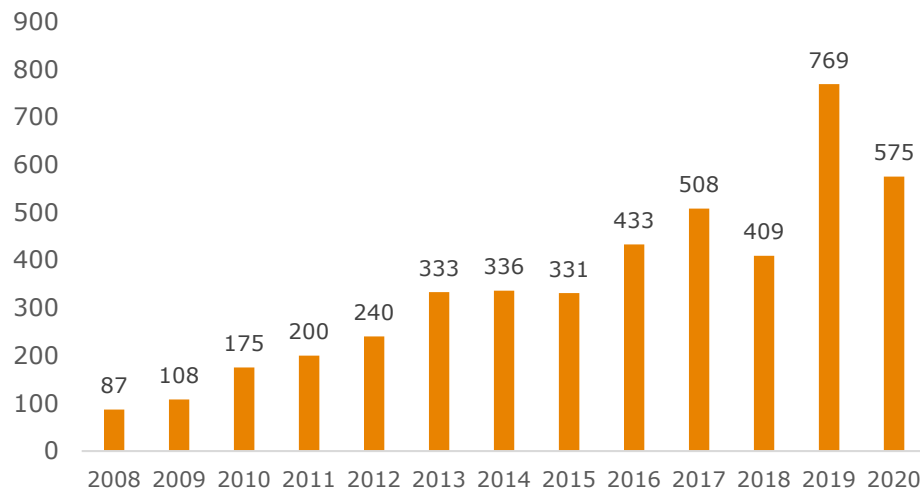
- ❖ Act as filter and generator of activities at EMA
 - ❖ Workshops
 - ❖ Information sessions
 - ❖ Training
 - ❖ Topic groups

Representing their
organisations

Working Party (PCWP or HCPWP)
EMA consultations
Workshops

Involvement in EMA medicine-specific activities

Individual patient experts

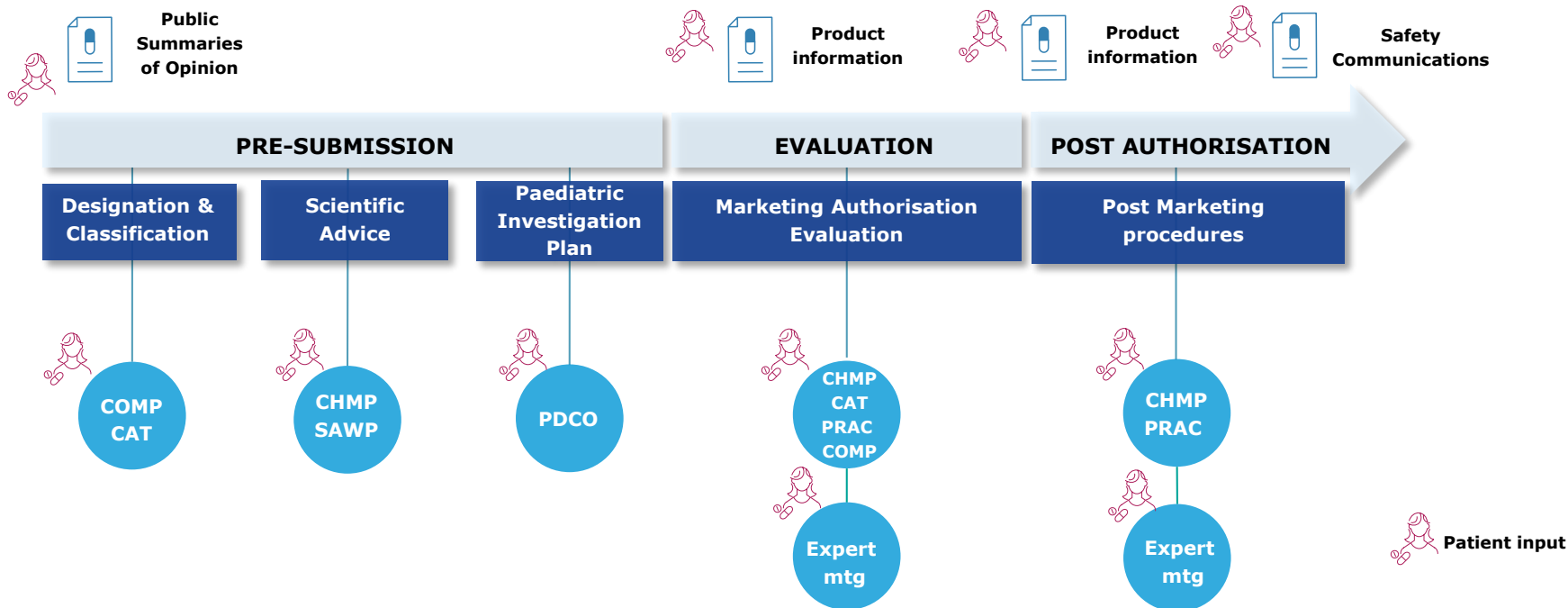


Individual experts

*Scientific Advice / Protocol Assistance Procedures
Scientific Advisory/ad hoc expert Groups
Scientific Committee consultations
Review of documents*

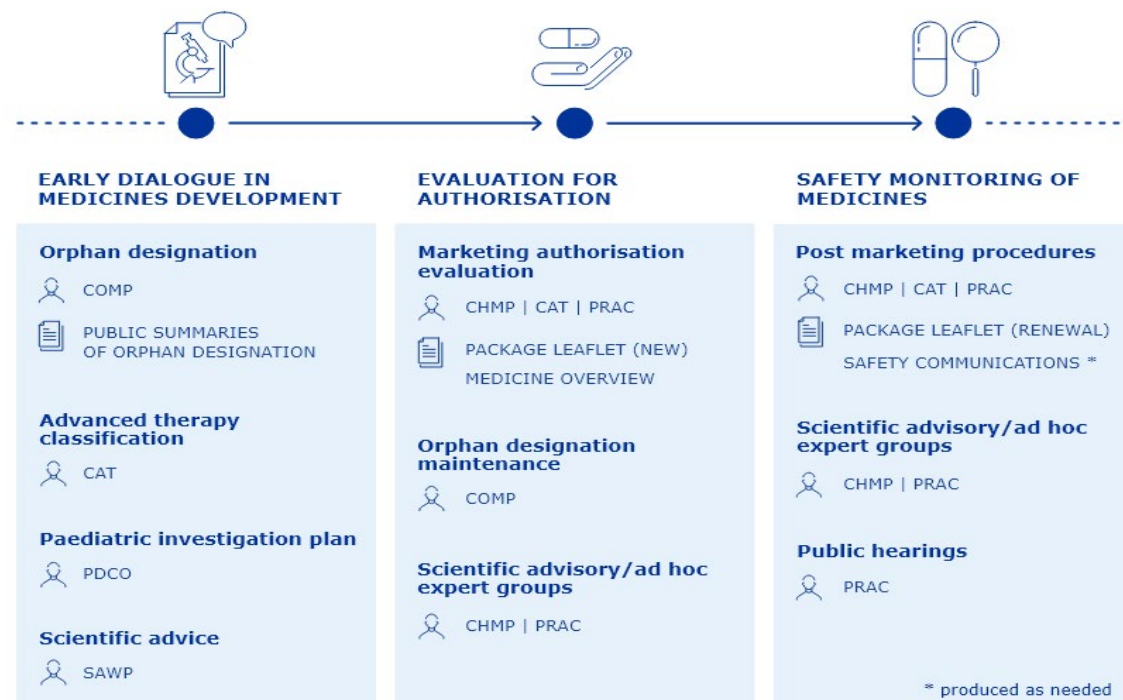


Where are patients involved?





Where are patients involved?



COMP: Committee for Orphan Medicinal Products
CAT: Committee for Advanced Therapies
PDCO: Paediatric Committee
CHMP: Committee for Human Medicinal Products
PRAC: Pharmacovigilance and Risk Assessment Committee
SAWP: Scientific Advice Working Party

COMMITTEES & EXPERTS MEETINGS
 DOCUMENTS FOR THE PUBLIC

Where are patients involved? Rare disease committee

Public
Summaries
of Opinion

PRE-SUBMISSION

Designation &
Classification

COMP
CAT

Committee for Orphan Medicinal Products (COMP)

- ALS is a rare disease
- Prevalence of 1/10000 people in EU

Patient involvement

- Members of committee
- Can be invited to committee meeting
- Surveys can be used to answer committee questions





As ALS is a rare disease, obtaining Orphan Designation is crucial for a potential ALS medicine to start the regulatory pathway at EMA

- What is the time gain that an Orphan Designated Medicine can make as compared to a medicinal product that follows the regular pathway?



Union Register of medicinal products - European Commission

EU #	Product	Indication	Sponsor	Designation date
EU/3/21/2470	Pridopidine hydrochloride	Treatment of amyotrophic lateral sclerosis	Prilenia Therapeutics B.V.	19 Jul 2021
EU/3/21/2436	Trehalose	Treatment of amyotrophic lateral sclerosis	FGK Representative Service GmbH	20 May 2021
EU/3/21/2426	Ganglioside GM1	Treatment of amyotrophic lateral sclerosis	3R Pharma Consulting GmbH	13 Apr 2021
EU/3/20/2395	Celecoxib, ciprofloxacin	Treatment of amyotrophic lateral sclerosis	Morrison & Foerster	06 Jan 2021
EU/3/20/2358	L-pyroglutamyl-L-asparaginyl-L-prolyl-D-tyrosyl-D-tryptophan amide	Treatment of amyotrophic lateral sclerosis	Neuropath Therapeutics Limited	13 Nov 2020
EU/3/20/2318	Dextran sulfate low molecular weight	Treatment of amyotrophic lateral sclerosis	TikoMed AB	21 Aug 2020
EU/3/20/2284	Sodium phenylbutyrate, tauroursodeoxycholic acid	Treatment of amyotrophic lateral sclerosis	Drug Development and Regulation S.L.	04 Jun 2020
EU/3/20/2256	Reldesemtiv	Treatment of amyotrophic lateral sclerosis	Pharma Gateway AB	28 Feb 2020
EU/3/19/2231	H-Leu-Pro-Pro-Leu-Pro-Tyr-Pro-OH	Treatment of amyotrophic lateral sclerosis	AdRes EU B.V.	16 Dec 2019
EU/3/19/2232	Lactobacillus plantarum	Treatment of amyotrophic lateral sclerosis	MDC RegAffairs GmbH	16 Dec 2019
EU/3/19/2155	Human culture expanded autologous mesenchymal stromal cells	Treatment of amyotrophic lateral sclerosis	IQVIA RDS Ireland Limited	24 Apr 2019
EU/3/18/2017	Ambroxol hydrochloride	Treatment of amyotrophic lateral sclerosis	Spedding Research Solutions SAS	25 May 2018
EU/3/18/2008	Adeno-associated viral vector serotype 9 encoding miRNA against human superoxide dismutase 1	Treatment of amyotrophic lateral sclerosis	Stolmár & Partner Patentanwälte PartG mbB	16 Apr 2018
EU/3/17/1934	(R)-troloxamide quinone	Treatment of amyotrophic lateral sclerosis	PTC Therapeutics International Limited	08 Nov 2017
EU/3/17/1894	Recombinant human antibody directed against misfolded human superoxide dismutase 1	Treatment of amyotrophic lateral sclerosis	Granzer Regulatory Consulting & Services	17 Jul 2017
EU/3/17/1844	Tauroursodeoxycholic acid	Treatment of amyotrophic lateral sclerosis	Bruschettini s.r.l.	27 Feb 2017
EU/3/16/1801	Ibudilast	Treatment of amyotrophic lateral sclerosis	Medicinova Europe GmbH	12 Dec 2016
EU/3/16/1722	Masitinib mesilate	Treatment of amyotrophic lateral sclerosis	AB Science	29 Aug 2016

https://ec.europa.eu/health/documents/community-register/html/reg_od_act.htm?sort=a



You showed that over the recent 5 years EMA positively advised Orphan Designation for 3 to 4 potential ALS medicines per year. By this the pipeline of ALS medicines under clinical development in Europe has never been so full.

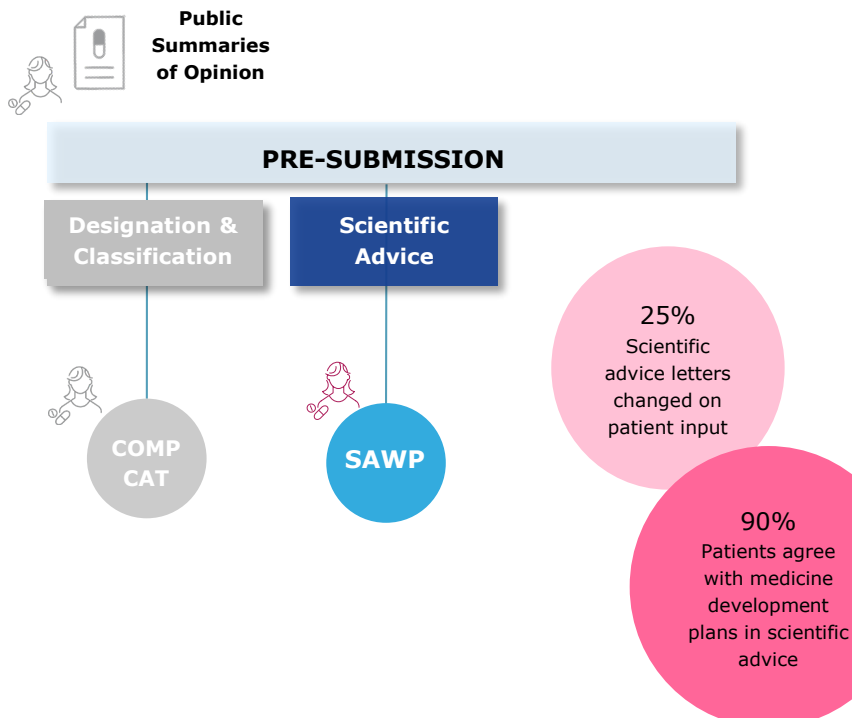
- However, are you aware of any application to obtain Orphan Designation for a potential ALS medicine that was not designated? If so, what was the main reason?
- Do patients in the COMP often have to convince other members about the importance for a potential ALS medicine to obtain Orphan Designation?



Orphan criteria for designation

1. That the **product** is intended for the **diagnosis, prevention or treatment** of a **life-threatening or chronically debilitating condition** not affecting more than **five in ten thousand persons** in the European Community
2. That the product is intended for the diagnosis, prevention or treatment of a life-threatening or chronically debilitating condition and is unlikely that the marketing of the medicinal product in the Community would generate sufficient **return to justify the necessary investment**
3. There **exists no satisfactory method** of diagnosis, prevention or treatment of the condition that has been authorised in the European Community

Where are patients involved? Scientific Advice/ Protocol Assistance



Scientific Advice Working Party (SAWP)

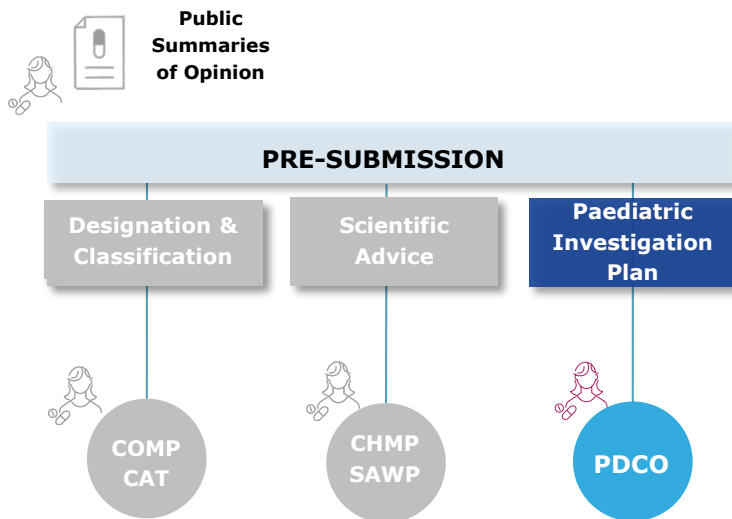
Areas where patients can contribute to development plan

- Patient population
- Endpoints
- Comparator medicines
- Quality of life
- Feasibility of trials
- Living with a disease/condition and implications

Patient involvement

- ALS patient representatives invited to participate in several procedures

Where are patients involved? Medicines for Children



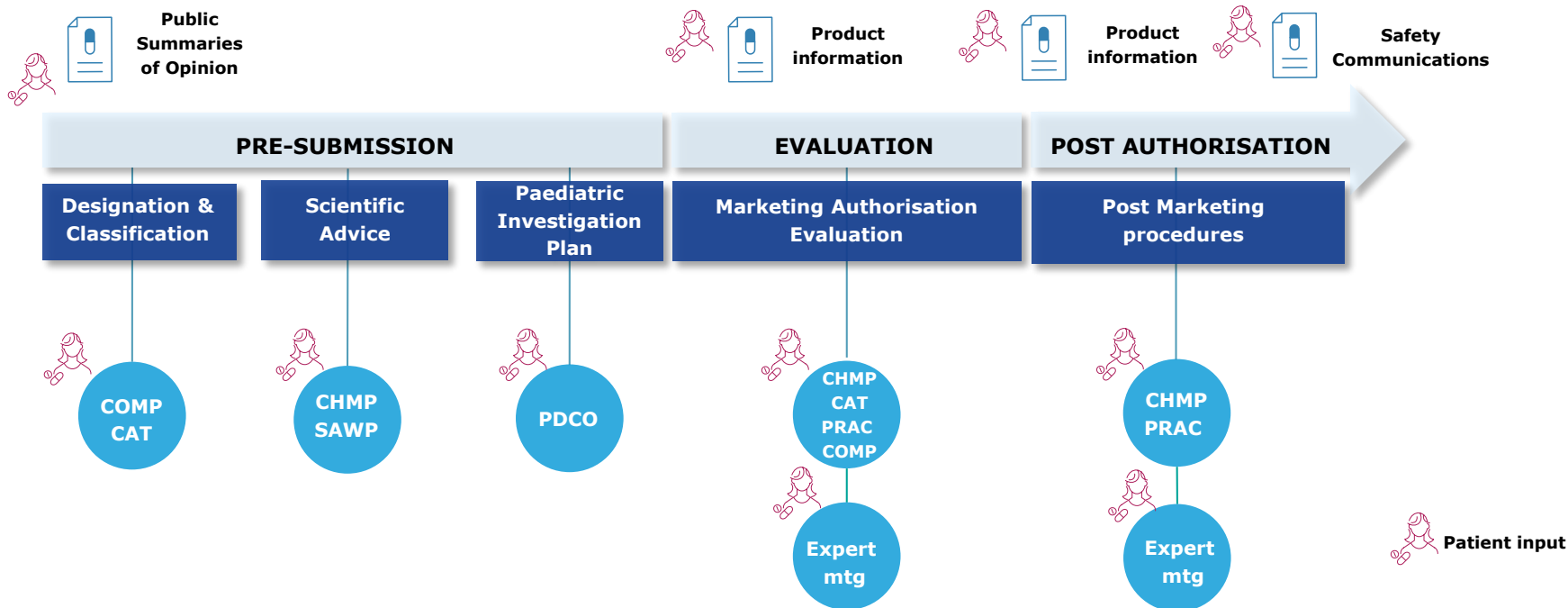
Paediatric Committee (PDCO)

- Assess content of paediatric investigation plans (PIPs)
- Determine studies that companies must perform in children when developing a medicine.
- Assess applications for full/ partial waiver or deferral

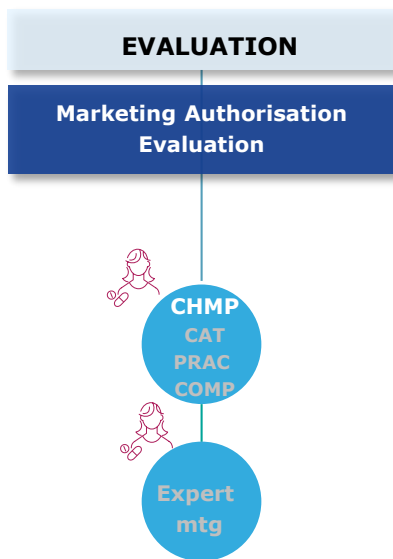
Patient involvement

- Members of committee
- Can be invited to committee meeting
- Surveys can be used to answer committee questions

Where are patients involved?



Where are patients involved? Marketing authorisation

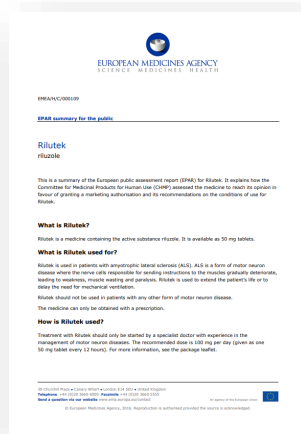


Committee for Human Medicinal Products (CHMP)

- Plays a vital role in the authorisation of medicines in the EU
- Conducts the initial assessment of EU-wide marketing authorisation applications
- Additional monitoring - labelled with a black inverted triangle (▼)

Patient involvement

- Can be invited to committee meeting
- Can be invited to expert meeting (SAG/ad hoc)
- Pilot on early involvement in assessment
- Surveys can be used to answer committee questions



[Link to full EPAR](#)

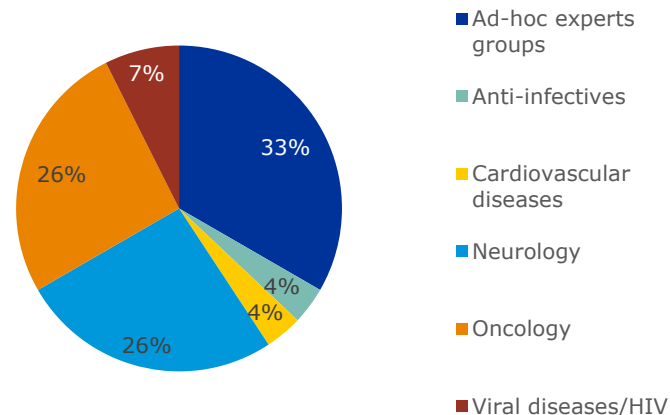
Classified as public by the European Medicines Agency

Scientific Advisory Groups (SAGs)/ ad hoc expert groups

EMA's scientific committees can consult additional experts, patients and healthcare professionals to enrich their scientific assessment of medicines. These external parties may be involved in [SAGs or ad-hoc expert groups](#).



Areas of discussions - SAGs and ad-hoc experts groups meetings (2020)



Where are patients involved?



Committee for Orphan Medicinal Products (COMP)

- Reviews orphan criteria prior to marketing authorisation

Pharmacovigilance and Risk Assessment Committee (PRAC)

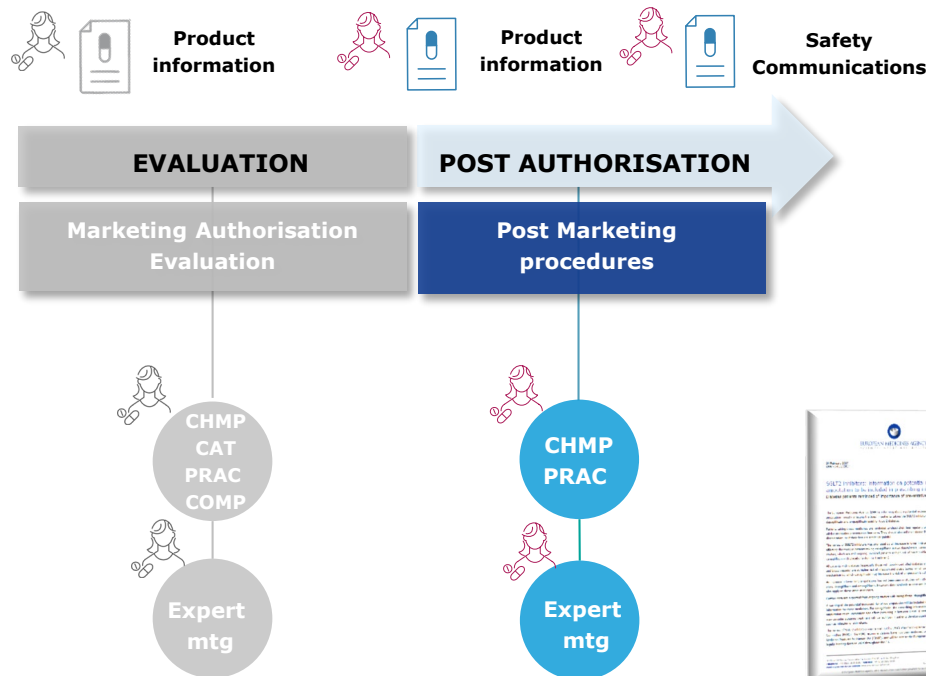
Evaluates Risk Management Plan (RMP) submitted with marketing authorisation application:

- Any possible (known or potential) safety concerns
- How risks will be managed and monitored once the medicine is authorised
- What information is intended to be gathered from follow-up studies after authorisation

Patient involvement

- Can be invited to COMP meeting on orphan maintenance
- Review of documents for public
 - Medicines overview
 - Package leaflet

Where are patients involved? Safety committee

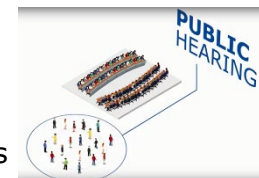


Stakeholder meetings

- With patients and healthcare professionals
- Valproate; Retinoids; Methotrexate

Public hearings at PRAC

2017: Valproate containing medicines;
2018: Quinolones and fluoroquinolones



Review of safety communications





Challenges

- Finding suitable patients (e.g. language barrier, availability)
- Ensuring comprehensive, tailored training to facilitate and enhance participation
- Provide a clear definition of patients role in the different activities / committees to manage expectations from all angles
- Managing potential conflicts of interest
- Representativeness
- Measuring the value / impact of patients



How to address the challenges

- **Who** to interact with?
 - Creating a diverse group of stakeholders to consult
 - Criteria for organisations
 - Individual experts
- **How** to interact?
 - Methodologies for engaging stakeholders
 - Support and training
 - Develop appropriate content and ensure targeted communication
- **Transparency**
- **Monitoring** and **reporting**



Who to interact with?

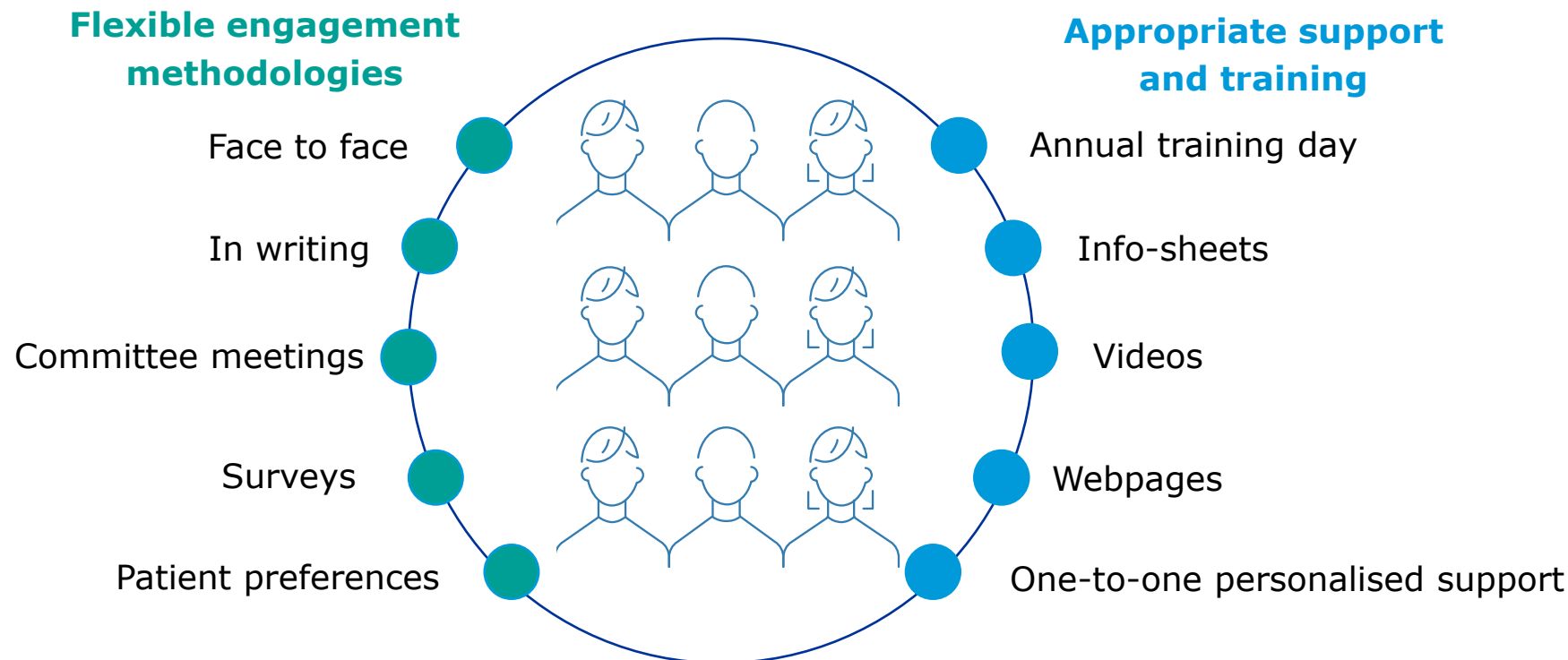
**International/European organisations
– EMA stakeholders database**

Eligible organisations

Organisation representatives	Individual Experts
EMA 'eligibility' criteria	Declaration / assessment of Interests
<p>Transparent on the funding of the organisation</p> <ul style="list-style-type: none"> ▶ Legitimacy ▶ Mission/activities ▶ Representation ▶ Structure ▶ Accountability ▶ Transparency 	<p>Confidentiality undertaking</p> <p>Identification through European network of registered organisations and EMA database of individuals</p>

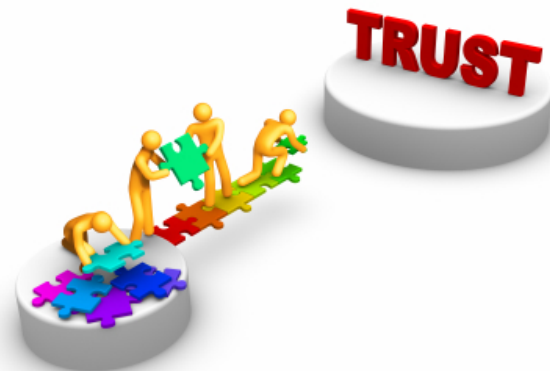


How to interact?



Transparency

- Declarations of Interest – publication of declarations and CVs of individual experts
- Eligibility criteria for organisations and publication of funding
- Publication of agendas, minutes, highlights of committees
- Civil society members in committees
- Proactive publication of clinical trial data
- Public Hearings





As you showed, engagement of EMA with patients is based upon a **delicate balance between trust and transparency**, where EMA publishes reports of meetings as open as possible, but also expects confidentiality from patients they engage with.

- Has EMA advice for the ALS patients that engage with them, who feel huge (social media) pressure from their fellow-patients to get additional information and to speed up clinical development of potential ALS medicines?
- Can EMA - to a certain extent - understand that such fellow-patients unjustly think that 'too little, too slow' is happening in clinical development of an ALS medicine?



Monitoring and measuring

- Description of patient/HCP input into EMA activities
- Proposals for improvements included in next work-plan
- Annual report to EMA Management Board



Annual reports with summaries of feedback

25%
Scientific
advice letters
changed on
patient input

50%
Changes by
patients
included in
published
documents

90%
Patients agree
with medicine
development
plans in scientific
advice



Some conclusions

- Engaging with patients:
 - Brings **everyday aspects** of living with a disease **into scientific discussions**
 - Helps **bridge the gap** between clinical trial data and real world data
 - Increases **transparency, awareness and understanding: TRUST**
- Engage in a **stepwise approach; learn together** what format works best;
 - **Define roles** - manage expectations
 - Ensure engagement is **mutually beneficial**



Everyone has a role to play to ensure engagement happens



Engaging with patients leads to **more meaningful outcomes** for everyone!



Any questions?



Further information

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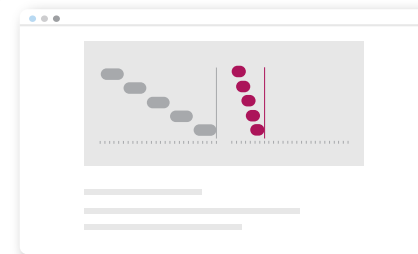
COVID-19: current situation and approach

- Key challenge is to develop and approve *safe* and *effective* medicines as quickly as possible
- COVID-19 vaccines and treatments must be rigorously tested and meet the same high standards of safety, efficacy and quality as any other medicine.
- EMA is expediting its processes supporting the development & approval of treatments and vaccines
[COVID-19 EMA pandemic Task Force](#) is a main tool for EMA and the EU [medicines regulatory network](#) to enable quick and coordinated regulatory actions.
- International collaboration via ICMRA, WHO, FDA.
- EMA publishes and disseminates key information for patients and healthcare professionals.



Stakeholder engagement: critical for crisis management

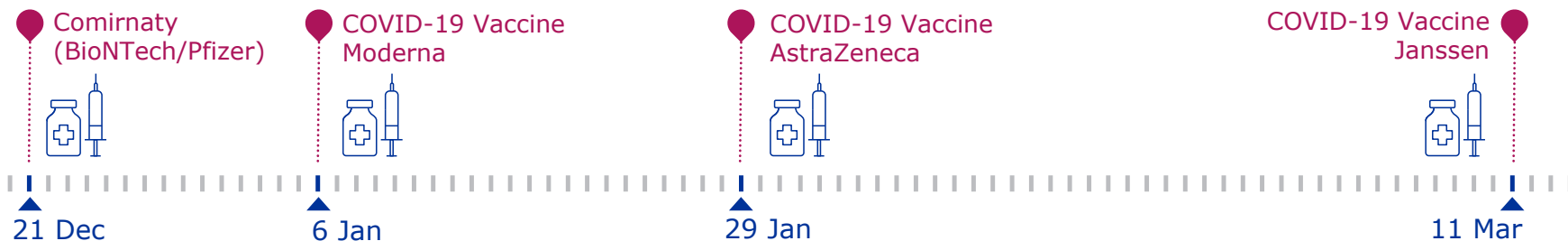
- Engagement with patients and healthcare professionals is vital; involvement in discussions, user-testing and document review are critical elements
- EMA can engage rapidly via established network of patients and healthcare professionals
- Pool of COVID 'patients' registered at EMA
- Active dissemination of EMA COVID-19 communications is key to increase their effectiveness and ensure EMA is a trusted and regular source of reliable information for patients and healthcare professionals (and help dispel 'false news')



COVID-19 vaccines approved in the EU

4 vaccines authorised in the EU

- **Comirnaty and Moderna** vaccines contain a molecule called **messenger RNA (mRNA)** with instructions for producing the spike protein from SARS-CoV-2, the virus that causes COVID-19
- The **AstraZeneca and Janssen** vaccine use a **non-replicating adenovirus** as a carrier that has been modified to produce the spike protein from SARS-CoV-2.
- The vaccines do not contain the SARS-CoV-2 virus causing COVID-19 itself and **cannot cause the disease.**

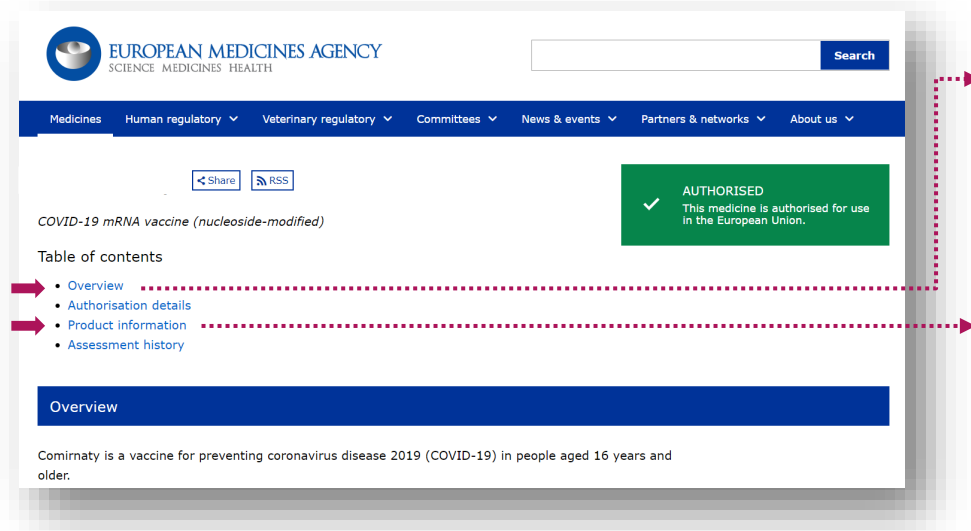


More information about the COVID-19 vaccines

- [Comirnaty](#)
- [COVID-19 Vaccine Moderna](#)
- [COVID-19 Vaccine AstraZeneca](#)
- [COVID-19 vaccine Janssen](#)

COVID-19: key facts

- **Medicine overview** addressing questions and answers in lay language; available in all EU languages
- Risk management plan (RMP)
- Recommendations and precautions to be followed by
 - healthcare professionals (summary of product characteristics) and
 - patients (**package leaflet**)for the safe and effective use of each approved vaccine; available in all EU languages



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COVID-19 mRNA vaccine (nucleoside-modified)

AUTHORISED
This medicine is authorised for use in the European Union.

Table of contents

- Overview
- Authorisation details
- Product information
- Assessment history

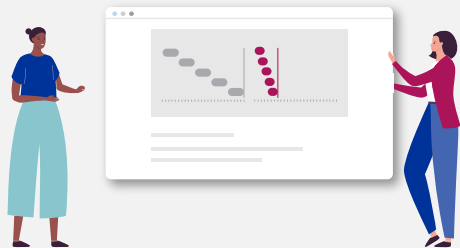
Overview

Comirnaty is a vaccine for preventing coronavirus disease 2019 (COVID-19) in people aged 16 years and older.

EMA public meetings

11 December 2020

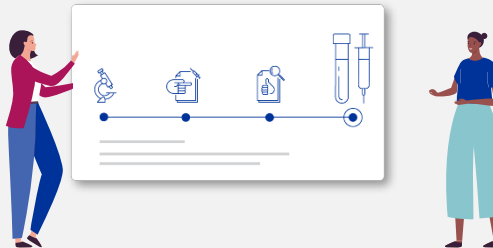
BROADCAST LIVE



Inform the public and stakeholders about EU regulatory process for approval of COVID-19 vaccines and EMA's role in their development, evaluation and approval

8 January 2021

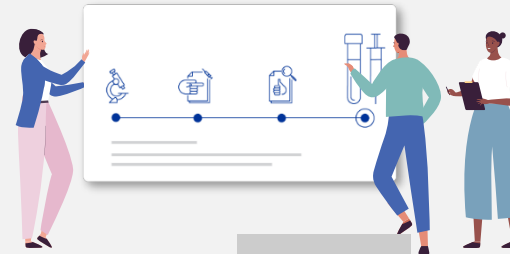
BROADCAST LIVE



Explain the basis for the approval and use of new vaccines, how their safety will be monitored and their roll-out at national level

26 March 2021

BROADCAST LIVE



Update to EU citizens about the continued assessment, approval and safety monitoring of COVID-19 vaccines, as well as their expected impact at community level

Listen to the public and stakeholder groups on their needs, expectations and any concerns, so that these can be considered in the relevant regulatory processes.