

Key achievements of the EMA's SME regulation

EMA Roundtable meeting - 15th anniversary of the SME Office

Presented by Leonor Enes on 27 November 2020 Scientific Officer | SME Office | Regulatory Science and Innovation Task Force (TRS)



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SME regulation and EMA SME Office

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27 November 2020

EU SME regulation and EMA SME Office



SME regulation(EC) No 2049/2005 of 15 December 2005

Aims to promote innovation and development of new medicines by SMEs



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EU SME regulation and EMA SME Office



Assistance to SMEs

SME Definition Commission recommendation 2003/361/EC

Assignment and renewal of SME status

- Regulatory Assistance
- SME Briefing Meetings
- Fee Incentives*
- Translation Assistance for the product information
- Training and Awareness via info days, SME Newsletters and mailings targeted at SMEs
- Partnering and Networking

 $* \mbox{Orphan}$ regulation, ATMP and Pharmacovigilance fee regulations

SME thresholds



SMEs registered with EMA







Almost half of enterprises are micro and autonomous

Increase in the percentage of academic spin offs from 9% (2016) to 12% (2019)



SME in 2019

Increase in the number of companies developing orphan and paediatric medicines

versus 2016

2019	Vaccines 4%
	Therapeutics 66%
	Diagnostics/Imaging 6%
	Combined medicines and devices 6%

53% Chemical entities
12% Biologicals
10% Advanced therapies
27% Orphan medicines
12% Paediatric medicines
25% Generic medicines

Changes in geographical distribution due to BREXIT

	Germany 13%
	France 9%
16	Italy 6%
0	Spain 5%
5	UK 17%
	Non-EU/EEA 7%





Distribution of shareholders profile



Natural persons

- Investment firms / institutional investors
- Venture capital
- Corporate/private ownership
- Business angels
- Public investment

Regulatory assistance



Administrative, regulatory and procedural queries from SMEs <u>SME@ema.europa.eu</u> SME Helpline: +31 (0)88 781 8787



Response by email or phone

Interaction with other EMA offices

Meetings

Most common topics addressed

- SME definition and incentives
- Early development advice: Scientific advice /PRIME/ITF
- Regulatory topics (e.g. eligibility to CP, legal basis, data protection)
- Criteria for orphan designation, market exclusivity
- Paediatric requirements
- BREXIT



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SME briefing meetings

- Platform for early dialogue with SMEs.
- Discuss the regulatory strategy of a medicinal product development & navigate the range of procedures and incentives available.
- Multidisciplinary EMA group.
- Joint screening SME/ITF meeting requests within Regulatory Science and Innovation Task Force (TRS)

Therapeutic indications: mainly oncology, rare diseases, anti-infectives and CNS Majority at early stage of development

	Year	Average N. of meetings
2	2006-2010	5
2	2011-2015	9
2	2016-2020	13

N. of SME Briefing meetings





Fee incentives

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- Scientific advice (SA)
 - 90% fee reduction; 100% for orphan products*
- Application for MAA
 - Fee deferral to 45 days after EC decision
 - Fee waiver for SME orphan MAA*
 - Conditional fee exemption where EMA SA followed and dossier not successful
- Inspection (pre- and post-authorisation) e.g. 90% fee reduction (and deferral on pre-authorisation inspections)
- Translation assistance Assistance with translations of the product information (PI) documents submitted in an initial marketing authorisation application
- Post-authorisation procedures and <u>PharmacoVigilance</u>**
 - 40% fee reduction for small/medium enterprises (exemption for micro enterprises)
- Maximum Residue Limit (MRL) 90% fee reduction for establishment, extension or modification of MRLs

*Orphan regulation

** Pharmacovigilance regulation

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SME Fee incentives (Millions)







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Training & awareness

Info days Regulatory training courses tailored for SMEs.

<u>Newsletters</u> Circulated quarterly; published on EMA Website.

Announcements

Information sent by email to SMEs and stakeholders.

SME info day: Regulatory toolbox for medicines

nd combined devices developers

SME User Guide

SME Register

Partnering & networking

- to increase information available on SMEs.
 - to facilitate and promote interaction, partnering and networking between SMEs.

Participation to conferences and events



Human medicines

Support to development

PRIME (PRIority Medicines): figures as of November 2020

- SMEs represent more than half of the requests for eligibility
- Almost 50% of products in PRIME are from SME developers (35)
- Lowers success rate of applications for PRIME for SMEs 20% (vs 32% for medium large companies)
- Few early entry requests (2 granted)
- 63% orphan medicines (22)
- 43% ATMPs (15)
- Therapeutic areas more represented: oncology/haematology, neurology, infectious diseases



Early entry point for SMEs: on the basis of compelling non-clinical and tolerability data from initial clinical trials

SME briefing meetings: opportunity to discuss and receive guidance on PRIME Key achievements of the EMA's SME regulation



Granted Denied

137

Scientific Advice (SA)/Protocol Assistance (PA)* and Innovation Task Force (ITF) - human medicines

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In 2019 around 30% of SA/PA requests and 45% of ITF meetings were from SMEs

ITF briefing meetings by affiliation



Scientific advice requests by affiliation of requester



SMEs Medium/large pharmaceutical companies

2019 Figures	Total	SME (%)
Scientific advice	549	144 (26%)
Protocol assistance	125	41 (33%)
Parallel consultations with HTA	20	3 (15%)
Qualification of novel methodologies	16	11 (69%)

➡ 13 ATMP certifications finalised (end 2019)

* P rotocol assistance for designated orphan medicinal products.



Human medicines

Marketing authorisations



SME - MAA outcome per year (2016 - Nov.2020)



Increase in success rate

	2016	2017	2018	2019	Nov. 2020
Success rate	40 %	57%	57%	67%	87%

Updated 06.07.2021

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2016-2019

 Reduction in average number of days of company clock-stop (positive opinions)



- Prior scientific advice: 62%
- Legal basis: 67% full application

Marketing authorisations – human medicines



Major Objections (MO) quality and clinical efficacy





Advanced therapy medicinal products (ATMPs) comprising

and manufacturing problems contributed to the other withdrawals.45 cell therapy, gene therapy, and tissue-engineered products. It is expected that pharmaceutical development programs generate offer a multitude of novel therapeutic approaches to a wide safety and efficacy evidence that is not only sufficient to support

Marketing authorisations – human medicines

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Out-licensing/ merger and acquisitions

Out of 63 products with an SME applicant at the time of MAA and with a positive opinion over 2016-10/2020

- 65% (41) of products kept by
 SMEs which maintained SME status
- 14% (9) of products kept by SMEs which grew above thresholds



Product kept by SME	Company grew above SME thresholds	Merger/acquisition	Product out-licensed	
41 (65%)	9 (14%)	6 (10%)	7 (11%)	



Veterinary medicines

Support to development & marketing authorisations

Support to development - veterinary medicines



High number of SME applicants for both MUMs and Scientific Advice

Number of MUMs classification requests

Veterinary scientific advice requests by affiliation of requester





SME - MAA outcome per year (2016-2020)

Analysis of Major Objections (2016-2019)



2016-2019

- Success rate for veterinary products: 76%
- Prior scientific advice 56%
- Legal basis: 67% full



EMA SME action plan 2017-2020



Themes (11 objectives including 16 actions):

- Raising awareness of the EMA SME initiative to stakeholders in the innovation lifecycle;
- Developing regulatory knowledge base of SMEs in the pharmaceutical sector;
- Fostering pharmaceutical innovation for human and veterinary medicines;
- Engaging with SMEs, partners and stakeholders;

The plan delivered on the objectives and actions identified

Actions to be further developed:

Training and education: e.g. veterinary; medical devices, building on networking structures and tools (EU-NTC and EU-IN)

Promoting early interactions on medicine development (e.g. PRIME pre-submission meetings for SMEs, drug device combination products)

Engaging with innovation clusters, bio-incubators, investors, academia and non-profit research organisations

Cooperation with EU institutions, bodies, EU Network (e.g. SME definition; SME supporting measures)

Engaging with international regulators





Selection of products developed by SMEs





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Thank you for your attention Any questions ?

Further information

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