

Catalysing the integration of science and technology in drug development

EMA's core recommendations

Human Stakeholders Workshop

Presented by Enrica Alteri on 24 October 2018 Head of Division, Human Medicines Research and Development Support







Science

Precision medicine

ATMPs PRIME

Regulator

Evolution of science and technology demands integration of regulatory advice along the development continuum

Technology

Novel manufacturing Medicine+device Nanomedicines New materials

Product to patient

0-0



Core recommendations—Science



Support developments in precision medicine, biomarkers and 'omics'



Support translation of Advanced Therapy Medicinal Products (ATMPs) cell, genes and tissue-based products into patient treatments

Promote and invest in the Priority Medicines scheme (PRIME)





Support developments in precision medicine, biomarkers and 'omics'



Enhance early engagement with novel biomarker developers to facilitate regulatory qualification



Address the impact of emerging 'omics' methods and their application across the development life cycle



Evaluate, in collaboration with HTAs, payers and patients, biomarker impact on clinical outcomes



Support translation of Advanced Therapy Medicinal Products cell, genes and tissue-based products into patient treatments



Identify therapies that address unmet medical need

Provide assistance with early planning, method development and clinical evaluation

Support evidence generation, pertinent to downstream decision-makers



Address the challenges of decentralised ATMP delivery locations



Raise global awareness of ATMPs to maximise knowledge sharing, promote data collection





Promote and invest in the Priority Medicines scheme (PRIME)



Invest in external communication to better explain and promote PRIME

4		
1	$\left(\right)$	
	\	
	$\underline{\frown}$	
		0

Evaluate current capacity and identify areas for increased investment



Shorten the time between Scientific Advice, clinical trials and MAA submission



Collaborate with stakeholders to ensure efficient oversight post-approval



Leverage collaboration with patients, healthcare professionals, academia and international partners



Core recommendations—Technology



Facilitate the implementation of novel manufacturing technologies



Create an integrated evaluation pathway for the assessment of medical devices, in vitro diagnostics and borderline products



Develop understanding of and regulatory response to nanotechnology and new materials in pharmaceuticals





Facilitate the implementation of novel manufacturing technologies



Recruit expertise in novel manufacturing technologies to enhance the assessment process



Identify bottlenecks and propose modernisation of relevant regulations to facilitate novel manufacturing



Address regulatory challenges in point-of-care manufacturing, e.g., concept of batch control, role of the Qualified Person



Facilitate a flexible approach in application of Good Manufacturing Practice



Create an integrated evaluation pathway for the assessment of medical devices, in vitro diagnostics and borderline products



Define how risk-benefit of such products is assessed and communicated



Enrich expertise at the interface between medicines, medical devices and borderline products



Facilitate the regulatory pathway between notified bodies and medicines' regulators



Gain insight in innovation on drug-device combination products via horizon scanning



Develop understanding of and regulatory response to nanotechnology and new materials' utilisation in pharmaceuticals



Raise awareness of new nanomedicines and materials via the EU-Innovation Network



Generate guidance addressing PK/PD requirements and long-term efficacy and safety



9

Develop guidance on regulatory pathways with Device Regulators and Notified Bodies



Core recommendations—Regulator



Diversify and integrate the provision of regulatory advice along the development continuum





Diversify and integrate the provision of regulatory advice along the development continuum



Promote more integrated medicines development aligning Scientific Advice, Clinical Trials approval and Good Clinical Practice oversight



Create complementary and flexible advice mechanisms to support innovative product development expanding multi-stakeholder consultation platforms



Facilitate translation of innovation via a re-engineered Innovation Task Force and synergy with an evolving EU-Innovation Network platform



Science

Precision medicine

ATMPs PRIME

Regulator

Evolution of science and technology demands integration of regulatory advice along the development continuum

Technology

Novel manufacturing Medicine+device Nanomedicines New materials

Product to patient

0-0





Esa Heinonen, **Co-Chair EU Innovation Network**



Sue Forda, **EFPIA**







Maria Pascual, FBF



Maud Perrudin, **AESGP**



The European Association for Bioindustries

Emma Du Four, EuropaBio