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4
5 **EU Medicines Agencies Network Strategy to 2020**
6 Working together to improve health

7 **Consultation draft**

8

See websites for contact details

Heads of Medicines Agencies www.hma.eu
European Medicines Agency www.ema.europa.eu

The European Medicines Agency is
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53 **Chapter 1: Introduction to the European medicines agencies** 54 **regulatory network**

55 The European regulatory system for medicines is a unique model in the global regulatory environment.
56 The system is based on a network of all national medicines regulatory authorities for both human and
57 veterinary medicines from Member States in the European Union and European Economic Area, united
58 in the Heads of Medicines Agencies (HMA), and the European Medicines Agency (EMA), working closely
59 together in an integrated fashion. The network serves a population of over 500 million, the world's
60 third largest population after China and India. Together, this closely integrated network ensures that
61 patients and animals in Europe have access to medicines that are safe, effective and of good quality
62 and that patients, healthcare professionals and citizens are provided with adequate information about
63 medicines.

64 By working closely together, the network can draw on the resources and expertise of the whole EU.
65 The network has access to thousands of experts across Europe provided by Member States and brings
66 together this expertise and knowledge to ensure that medicines are regulated to the highest scientific
67 standards. National Competent Authorities (NCAs) rely on each other's work to avoid duplication and
68 share workloads and scientific competence. For example, Member States do not conduct inspections in
69 each other's territories, avoid duplication of assessments and work together on post-marketing safety
70 issues.

71 The work of the network is coordinated by the EMA and the HMA. Amongst other tasks, the EMA's
72 responsibilities include the coordination of the scientific evaluation of those medicines that are
73 authorised through the centralised procedure (most new active substances are now authorised through
74 the centralised procedure) and referrals, support for innovative products (including the provision of
75 scientific advice and qualification of biomarkers), designation of orphan status or classification as Minor
76 Use Minor Species (MUMS)/limited market, agreement to paediatric investigational plans, as well as
77 the coordination of the EU wide work on safety monitoring on medicines. NCA's work closely with the
78 EMA and provide the scientific expertise for assessing centralised products, supporting innovation
79 including centralised scientific advice, work on orphan and paediatric medicines and EU wide safety
80 procedures through scientific resource to the various scientific committees (CAT, CHMP, COMP, CVMP,
81 HMPC, PDCO, PRAC), working parties and experts groups of the EMA.

82 NCAs handle applications for all medicines that are authorised nationally or through the decentralised
83 and mutual recognition procedure, conduct post-marketing surveillance in their territories, authorise
84 clinical trials, provide national scientific advice, support innovation and conduct inspections. Scientific
85 work for non-centralised products is coordinated through the coordination groups for mutual
86 recognition and decentralised procedures, human and veterinary (CMDh and CMDv).

87 All NCAs are represented in the HMA. The HMA addresses key strategic issues for the network, ensures
88 consistency across the EU, shares best practices and makes the best use of resources across the
89 network. The HMA, including the CMDh and CMDv, works closely with the EMA and the European
90 Commission to ensure the efficient and effective operation of the European medicines regulatory
91 network.

92 In the EU, medicines are governed by a large body of EU legislation, which aims to guarantee high
93 standards of quality, safety and efficacy of medicinal products, as well as appropriate information, and
94 to promote the functioning of the internal market. The EU legislation today covers the whole life-cycle
95 of a medicinal product from the research phase (clinical trials), the approval stage, manufacturing,
96 distribution to post-marketing obligations, including sectorial legislation on orphan and paediatric
97 medicines, advanced therapy medicinal products, as well as maximum residue limits for food safety.

98 There are some exemptions, notably pricing and reimbursement for human medicines, which remain a
99 national competence. The European legislation governing medicines has been strengthened
100 significantly in recent years in the areas of pharmacovigilance, falsified medicines and clinical trials.
101 Drafting of new legislation on veterinary medicines is ongoing. Full and harmonised implementation of
102 recent legislation will be a priority for the network in the coming years.

103 The European Commission's role in this area is multi-faceted and focuses on the following:

- 104 • Right of initiative: to propose new or amending legislation for the pharmaceutical sector;
- 105 • Implementation: to adopt implementing measures as well as to ensure and monitor the correct
106 application of EU law;
- 107 • Risk management: to grant EU-wide marketing authorisations for centralised products or maximum
108 residue limits on the basis of a scientific opinion of the EMA;
- 109 • Supervisory authority: to oversee the activities of the EMA in compliance with the mandate of the
110 EMA, EU law and the EU policy objectives;
- 111 • Global outreach: to ensure appropriate collaboration with relevant international partners and to
112 promote the EU system globally.

113 The European Commission is also responsible for policy initiatives in the pharmaceutical sector.

114 The degree of integration of the network has increased over recent years, for example since 2012 the
115 network has strengthened its assessment of EU wide safety issues with the creation of the
116 Pharmacovigilance Risk Assessment Committee (PRAC). Inspection activity is increasingly coordinated
117 as well as the development of IT systems that underpin the regulatory work of the network. The
118 network has also been jointly assessing clinical trials under the Voluntary Harmonisation Procedure in
119 anticipation of the application of the new Clinical Trials Regulation and veterinary periodic safety
120 reports (PSURs) in a work-share project.

121 With respect to the regulation of veterinary medicines, the same overall structure of the Network
122 applies as for human medicines but on a smaller scale. In some Member States, veterinary medicines
123 are controlled within the same agency or other government body that is responsible for human
124 medicines, whilst in others human and veterinary medicines are regulated separately. The small size
125 of the veterinary network reflects the much smaller size of the animal health industry compared to its
126 human counterpart. This smaller scale and the entirely private commercial nature of the veterinary
127 medicines market have implications for the approach that is required to ensure sustainability of both
128 the animal health industry and the regulatory network that is required to oversee its operation.

129

130 Chapter 2: Approach to the strategy

131 This document outlines the high level strategy for the network for the next 5 years. It is presented,
132 for the first time, as a single strategy for the entire network to reflect the need for a coordinated
133 approach to address the multiple challenges and opportunities that face the network. Advances in
134 science affect the nature of the products we regulate and the network must support new and
135 innovative developments that contribute to public health. There is a need for efficiency and
136 transparency, the need to address new and emerging threats, whether of a public health or criminal
137 nature, and the need to work globally with other regulators given the increasing globalisation of the
138 pharmaceutical industry.

139 This document focuses on key strategic priorities where the network can and should make a difference
140 in the next five years. It is not a description of all the work that is and will be taken forward but a high
141 level strategy, explaining what needs to be taken forward and why. Separate multi-annual workplans
142 for both EMA and HMA as well as for CMD (human and veterinary) will give detailed information on the
143 work of each component of the network (including some elements that are specific to EMA, HMA or
144 CMD), and will also describe how the strategy will be taken forward. It builds on the previous EMA
145 roadmap to 2015¹ and the HMA strategy document 2011-15².

146 The document presents key themes focussing on the contribution the network will make to human and
147 animal health, optimising the operation of the network and the need to act and collaborate globally.

148 The elements specific to veterinary medicines of the Network strategy are elaborated in Theme 2 of
149 Chapter 3 'Contributing to animal health and human health in relation to veterinary medicines'. In the
150 other chapters, where reference is made to the network, this can be assumed to cover both human
151 and veterinary parts unless it is clear from the context that it relates to human or veterinary medicines
152 alone. The fact that about 75 percent of new diseases that have affected humans over the past decade
153 have been caused by pathogens originating from animals or products of animal origin and the
154 continued emergence of new pathogens reinforce the need for collaboration between those regulating
155 human and veterinary medicines.

156

¹ http://www.ema.europa.eu/docs/en_GB/document_library/Report/2011/01/WC500101373.pdf

² http://www.hma.eu/fileadmin/dateien/HMA_joint/02-_HMA_Strategy_Annual_Reports/02-HMA_Strategy_Paper/2010_12_HMA_StrategyPaperII.pdf

157 **Chapter 3: Strategy for the network**

158 ***Theme 1: Contributing to human health***

159 **Introduction**

160 The medicines that we regulate are changing as our understanding of the scientific basis for disease
161 evolves. We are seeing new diseases emerge and existing diseases redefined. Old problems such as
162 antimicrobial resistance have become major public health threats and existing and new infectious
163 diseases require new therapies. As the population ages, diseases such as dementia become more of a
164 public health burden. New technologies are emerging and personalised medicines will represent an
165 increasing part of the armamentarium. We are seeing new advanced therapies and more combination
166 and borderline products.

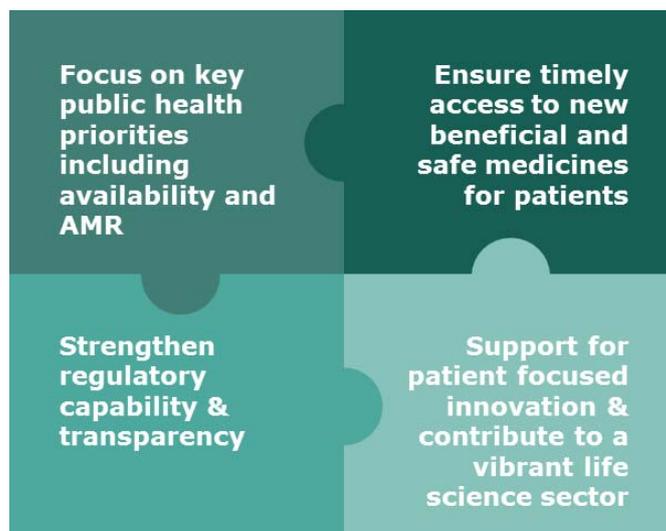
167 It is important that the network keeps abreast of these advances in science to ensure that novel
168 products can be developed optimally for the benefit of the health of the citizens of Europe. A vibrant
169 life science sector is crucial for this and the network will need to ensure that the European regulatory
170 environment is one that facilitates the development of novel products as well as protects and promotes
171 public health. Costs and complexity of developing new medicines continue to increase and society is
172 asking more in terms of timely access to novel treatments, particularly in areas of unmet need.
173 Monitoring of products throughout their lifecycle has never been more critical.

174 The European regulatory framework has proven to be flexible but the range and diversity of products
175 continues to rise. To enable promising new medicines to get to patients at the earliest opportunity
176 requires us to explore flexible licensing pathways and a life-span approach with clinical drug
177 development, licensing, reimbursement, use in clinical practice and monitoring viewed as a continuum.

178 At the same time, we must ensure that patients in the network continue to have access to existing
179 medicines by taking action when supply issues arise, by supporting the development of generics and
180 biosimilars and by facilitating access to medicines through appropriate classification.

181 This chapter outlines the major strategic initiatives the network will undertake over the next 5 years
182 with a view to contributing to and enhancing public health.

183



184

185

186 **Objective 1: Focus on key public health priorities including availability of**
187 **medicines and antimicrobial resistance**

The network will continue to be prepared to address public health emergencies and priorities such as antimicrobial resistance. It will also review whether there are areas that could benefit from regulatory incentives to support the development of novel products. In addition it will continue to review how to best ensure continuity of supply of good quality appropriately authorised medicines.

188

189 European citizens can expect to live longer and to live better quality lives. Nevertheless, new public
190 health priorities are arising in Europe that the network will need to contribute to and we are faced with
191 new public health emergencies that the network needs to respond to quickly.

192 Managing the threat represented by antimicrobial resistance to human and animal health will remain a
193 high priority for the network. With respect to antimicrobial resistance in human medicine the network
194 will facilitate access to the market of new antibiotics, particularly those against multi-drug resistant
195 infections, and to contribute to promoting the prudent and responsible use of antibiotics. The network
196 will continue to implement the EU Commission Action Plan, collaborate internationally and contribute to
197 the implementation of the World Health Organization (WHO) plan to combat the rising threat of
198 antimicrobial resistance. The Network will adopt a 'One Health' approach bringing together expertise
199 from both human and veterinary medicine recognising that the challenge of antimicrobial resistance
200 crosses both domains. The objectives with respect to veterinary medicine are detailed in objective 4 of
201 theme 2 of this chapter.

202 The network will explore other areas that could benefit from regulatory initiatives in the next five years
203 such as dementia. Also, the network's contribution to ensuring that the needs of special populations
204 including children and the elderly are met should be explored to ensure that these vulnerable groups
205 have timely access to appropriately developed medicines together with appropriate information to
206 support their use.

207 The network will also explore further the needs of other special populations such as patients affected
208 by rare diseases. To this aim a better coordination of the existing tools like the various horizon-
209 scanning exercises for orphan medicinal products conducted by different institutions will offer a
210 significant benefit in view of expediting the process and avoiding potential duplication of efforts.

211 An important aspect of ensuring the quality, safety and efficacy of particular categories of innovative
212 biological medicines is the testing of centrally authorised products and the official control authorities' ⁷
213 batch release. Official Medicines Control Laboratories (OMCLs) need to ensure that the experimental
214 assays and the reference material used to standardise the assays are updated to remain at state-of-
215 the-art.

216 The Ebola epidemic has reminded us that the network must be in a position to respond quickly to
217 public health emergencies. Although Europe, with its developed health systems, was not directly at risk
218 of an Ebola epidemic, the network contributed to the development of vaccines and anti-viral medicines.
219 Phase-I trials were started quickly as a consequence of the swift authorisations of these clinical trials in
220 the network, the rapid scientific advice given and collaboration between developers and regulators.
221 Over the next five years a priority will be to ensure that the network continues to be able to respond to
222 public health emergencies, whether novel infectious diseases or other threats, by facilitating the early
223 introduction of new treatments or preventative measures and learning from actions taken to address
224 public health crises such as the Ebola outbreak.

225 The network is increasingly confronted with supply challenges and shortages/lack of availability of both
226 new and old medicines. These supply issues can be caused by falsified medicines, stolen medicines,
227 manufacturing/GMP non-compliance issues or many other factors including economic. Supply chains
228 for medicines have become more and more complicated with an increasing trend to manufacture
229 outside the EU. There is a continued need to ensure the quality of products wherever they are
230 manufactured.

231 The Falsified Medicines Directive (FMD) introduced a range of measures to strengthen the legal supply
232 chains and protect them from falsified medicines. The network will continue to explore how it can best
233 address supply issues of whatever cause, including GMP issues, disruption of manufacturing processes
234 and reliance on a single or few manufacturers for essential medicines. It will work with other bodies
235 addressing the broader causes of supply problems. The network will also need to increase its cross
236 border collaboration in case of supply disruptions that affect multiple Member States. In addition,
237 greater focus will be given to the increasing threat posed by the illegal supply chain of medicines that
238 operates mostly through websites located in third countries will also continue to need to be addressed
239 collaboratively.

240 **Objective 2: Ensure timely access to new beneficial and safe medicines for** 241 **patients**

The network will review ways to ensure timely access to novel medicines, ensuring that existing flexibilities to get appropriate medicines to patients more quickly are used to their maximum potential, by taking forward the concept of adaptive pathways and strengthening the collaboration with Health Technology Assessment (HTA)/ pricing and reimbursement bodies and healthcare professionals and patient representative bodies.

242

243 Patients increasingly demand access to new and innovative medicines at an earlier stage. Regulators
244 need to balance the need for more information on the quality, safety and efficacy against the need for
245 access, particularly in areas of unmet need. There is clear consensus amongst industry, regulators and
246 HTA/pricing and reimbursement bodies that timely access to appropriate novel medicines is a priority.
247 Participation in clinical trials is one way of giving access to patients but this is not an option for many
248 patients and participation in trials does not guarantee access to the medicine under investigation.

249 The EU regulatory framework offers a number of flexibilities that allow earlier access: conditional
250 approval, exceptional circumstances, accelerated assessment, compassionate use and treatment on a
251 named-patient basis at Member State level. Despite these flexibilities, there is a perception that the EU
252 is not doing enough to ensure timely access. In response, some Member States have introduced their
253 own earlier access scheme within the existing regulatory framework. The network will need to ensure
254 that the existing flexibilities are fully understood and prospectively planned for their use.

255 The concept of adaptive pathways is based on a life-span approach consisting of an early approval of a
256 medicine for a restricted patient population, in areas of high unmet medical need, with buy-in from
257 multiple stakeholders during development. Robust pharmacovigilance systems across the EU and the
258 move to proactive pharmacovigilance, real-time monitoring and rapid learning systems are key
259 enablers of this approach. The EMA pilot project on adaptive pathways to explore this approach with
260 medicines in development will increase our understanding of how this could all work in practice. In the
261 next five years the network will have to progress the adaptive pathways pilot, review the outcome and
262 promote ways to ensure timely access to new medicines for patients.

263 Furthermore, collaboration with other key bodies such as HTA/ pricing and reimbursement bodies and
264 patient and healthcare groups will need to be strengthened to enable appropriate decision making and
265 sharing of information to allow optimal access. HTA/ pricing and reimbursement of medicines are
266 essential in getting innovative medicines to patients earlier.

267 Further efforts should be made to incorporate patients' values and preferences into the scientific
268 review process which could influence benefit risk decision making across the network. This is
269 particularly important in view of the fact that patients are the ultimate beneficiaries of medicines and
270 that, therefore, their views should be heard.

271 A further area for focus of the network in the coming years will be to ensure the most appropriate legal
272 classification is applied to products and the mechanisms for allowing those that can be safely
273 reclassified as non-prescription medicines are in place, effective and being used, thereby improving
274 patient access.

275 **Objective 3: Support for patient focused innovation and contribute to a** 276 **vibrant life science sector in Europe**

The network will work to ensure the optimal implementation of the Clinical Trial Regulation, collaborate more on supporting innovation and considering further regulatory incentives for innovation, particularly in certain areas of public health need.

277

278 To ensure access to new medicines for patients it is essential that Europe has a regulatory
279 environment that facilitates innovation. Clinical trial activity has slowed in recent years as a
280 consequence of increased competition globally and an unfavourable regulatory environment. Although
281 an estimated € 30,630 million was invested in R&D in Europe in 2013 by the research-based
282 pharmaceutical industry, Europe is consistently lagging behind the US as the place where innovators
283 want to test and launch their products first³.

284 The new EU Clinical Trials Regulation has addressed the regulatory environment for clinical trials in
285 Europe and will take full effect by mid-2016 at the earliest, subject to the full functionality of the IT
286 underpinning the Regulation. Under the new regulation it will be much easier to conduct trials in
287 multiple Member States following a more streamlined process through a single European portal. The
288 success of the regulation will largely depend on its implementation across the EU. All Member States
289 will be modernising the ways ethics committees work to be able to comply with the legislation. The
290 portal and database will need to be fully functional and user friendly. The network is committed to a
291 successful and harmonised implementation of the regulation.

292 The network already has a strong track record in supporting innovation through national innovation
293 offices or the EMA's Innovation Task Force, through national or EMA scientific advice, through
294 appropriate guidance and helplines. Opportunities for greater collaboration and integration across the
295 network and with academia will be explored to translate innovation into medicinal products. The
296 network will also need to consider whether it gives adequate support to and an appropriate regulatory
297 environment for those that drive innovation including SMEs and academia.

298 Furthermore, the network will need to reflect on what additional supportive measures may provide
299 incentives to support beneficial innovation, including, for example, a European early stage innovative
300 medicines designation, with subsequent optimisation of development. Many elements of such a scheme
301 are already in place but would require repackaging and better coordination of existing services.

³ The Pharmaceutical Industry in Figures, Key Data 2014, EFPIA, http://www.efpia.eu/uploads/Figures_2014_Final.pdf

302 The network will explore the opportunities for burden reduction where appropriate to ensure that
303 regulation is never a hurdle or barrier to innovation taking into account the complexity of medicine
304 development as well as the changing nature of pharmaceutical innovation. Over the next five years,
305 the network will generate a discussion on the most efficient and cost effective approach to knowledge
306 generation and evidence requirements.

307 Although outside of the remit of the network, HTA and pricing and reimbursement also play an
308 important role in fostering innovation in Europe. Efforts are ongoing to bring convergence in the
309 assessment of therapeutic added value of new medicines and patient outcomes. The network will
310 strengthen the collaboration with HTA/ pricing and reimbursement bodies taking into account the
311 discrete roles regulators and HTA/ pricing and reimbursement bodies have in bringing medicines to
312 patients.

313 Generic and biosimilar medicines have the potential to contribute to lowering the cost of health care,
314 can increase access to medicines and stimulate research. In the next five years, the network will
315 continue to ensure that the regulatory framework supports the development of a broad range of
316 generic and biosimilar medicines.

317 The network will continue to explore how best to include patient and societal input into pharmaceutical
318 innovation and regulation.

319 **Objective 4: Strengthen regulatory capability and transparency**

The network will ensure that it has the capability to regulate novel products of the future, develop regulatory science, consider greater use of real world databases and increase transparency about the data that underpin regulatory decisions.

320

321 Rapid advances in science are leading to new medicines that are developed, manufactured, assessed
322 and used in completely new ways. We are faced with personalised medicines, nanotechnology, cell and
323 gene based technologies amongst other innovative products. The traditional methods of assessing and
324 surveillance cannot always be applied to these products. The network will have to ensure that it
325 understands these new and upcoming technologies.

326 Over the next five years the network will need ensure it has the capability to regulate the novel
327 products of the future and to strengthen its capability to adequately assess and monitor these new
328 medicines to assure their safety, efficacy and quality throughout the product lifecycle, as well as giving
329 patients access to them without delay. Regulatory science, as an approach to how products are
330 developed and regulated will become more prominent and regulators will need to work more closely
331 with the academic community, industry and others to ensure appropriate support is given to the
332 developments in this area.

333 Regulatory capability varies across the network. Some NCAs have more expertise in certain areas than
334 others. In our networked approach to regulation NCAs rely on each other's work in the centralised,
335 decentralised and mutual recognition procedure, EU-wide pharmacovigilance procedures, and
336 inspections and on a voluntary basis for clinical trials. The network must ensure that all NCAs that
337 participate in a specific type of regulatory activity continue to have the capability to do so.

338 The network will take forward the discussion on making individual patient level data from clinical trials
339 available and consider if there are circumstances where this data will help the network's benefit risk
340 based decision making.

341 Access to anonymised data from electronic health records has the potential to completely change the
342 way we monitor medicines that are on the market. Such real world databases have the potential to
343 pick up and analyse safety issues and potentially provide information about effect sizes in a real world
344 setting and in sub populations much more quickly allowing regulators to take action at an earlier stage.
345 Also, electronic healthcare records can be used to facilitate data collection in clinical trials, particularly
346 those looking at outcome type data. The network will explore the use of 'big data' which has huge
347 potential to enhance capability and reduce cost whilst respecting individual patient privacy.

348 The network will also continue to strengthen the pharmacovigilance capability across the network and
349 explore new methods for monitoring products and rapidly evaluating safety issues. As part of
350 proactively managing benefit risk throughout the life-cycle of medicines, starting early in the pre-
351 authorisation phase, the network should do more to support early planning for post-authorisation
352 efficacy and safety evidence gathering.

353 The network is already transparent about its regulatory decisions and how these decisions are made.
354 With the EMA's policy on publication of clinical data and the Clinical Trials Regulation, the EU has set a
355 global example for increased transparency but the network will need to consider extending this level of
356 transparency to all of its work whilst keeping personal data and truly commercially confidential
357 information out of the public domain.

358 There is increasing public scrutiny on the issue of the potential risk to the environment arising from the
359 use of medicines. The network will increase the level of transparency on the work already done during
360 the authorisation procedure to assess and manage such risks and will explore if further measures are
361 required.

362

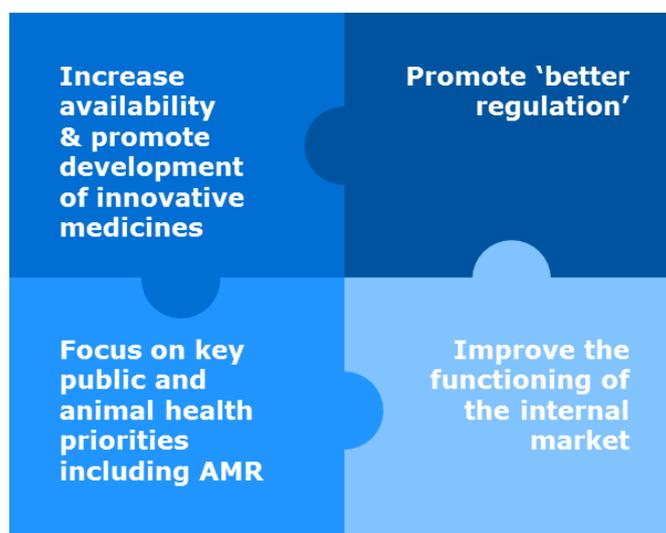
363 **Theme 2: Contributing to animal health and human health in relation to**
364 **veterinary medicines**

365 **Introduction**

366 The major factor influencing the strategy of the Network with respect to veterinary medicines in the
367 next five years will be the finalisation and subsequent coming into effect of a revised legal framework.
368 The period covered by this strategy will therefore be characterised by the network preparing for the
369 revised legislation whilst continuing to ensure that the existing legal framework is used as effectively
370 as possible in the period before the new legislation comes into effect.

371 In proposing the new legal framework, the European Commission identified four principle objectives; to
372 increase the availability of veterinary medicines; to reduce the administrative burden on industry and
373 regulators through applying 'better regulation'; to improve the functioning of the internal market for
374 veterinary medicines throughout Europe; and, to minimise the risks to human and animal health that
375 may arise from the use of antimicrobials in veterinary medicine. These same four objectives will drive
376 the strategy of the network in the run up to the new legislation.

377



378

379

380 **Objective 1: Increase availability of veterinary medicines and promote**
381 **development of innovative medicines and new technologies**

The network will increase the availability of all types of veterinary medicine, giving particular attention to products indicated for minor use in major species and for minor species (MUMS), as well as smaller national markets, and for technologies that are new to the veterinary domain.

382

383 The problem of a lack of availability is particularly acute with respect to products for MUMS. The
384 network has responded through the creation of a specific MUMS scheme operated jointly by the EMA
385 and NCAs, together with a range of measures at national level. Experience has shown that reducing
386 the data required at the time of authorisation can act as a strong incentive to the pharmaceutical
387 industry to market products for MUMS. A review of the MUMS guidelines will be carried out to identify
388 the scope for further reduction in data requirements whilst still providing assurance of appropriate

389 levels of quality, safety and efficacy. Current efforts to extrapolate maximum residue levels to food
390 producing animals of all species will be continued. For smaller national markets the lack of availability
391 for veterinary products is much wider and not limited to MUMS products necessitating further
392 considerations. Ensuring preparedness for new emerging animal diseases and diseases that spread
393 from other continents is of high importance to the network.

394 A wide range of technologies that are new to veterinary medicine are now being developed that
395 present particular challenges due to a lack of regulatory guidance and, in some cases, the fact that the
396 existing regulatory framework does not specifically cater for them. Over the period of this strategy,
397 the network will evaluate the success of measures recently put in place to facilitate access to market of
398 new technologies and innovative medicines and will ensure that the new legislation is able to
399 accommodate these new types of product. New initiatives will be explored for specific sectors to
400 improve availability and thereby promote animal welfare.

401 Experience over the last years has shown that availability can also be reduced as a result of removal
402 from the market of older medicines or removal of indications or species from the conditions of use of
403 authorised products. The network will continue to explore ways in which attrition of existing products
404 can be limited to situations where new threats are identified or where there are objective reasons to
405 consider that the benefit risk balance of an existing product has changed in such a way that its
406 authorisation should be varied or withdrawn.

407 The network will develop its use of the Union Database of veterinary products, as a database from
408 which products authorised in Member States and centrally can be identified. This will both increase the
409 usefulness of the database to veterinary surgeons who seek to identify authorised medicines under the
410 'Cascade' provisions of the current legislation, and help underpin the requirement of the new legislation
411 for a suitable European database of authorised veterinary medicinal products in the future.

412 **Objective 2: Promote 'Better Regulation'**

The network will reduce the regulatory burden on the veterinary pharmaceutical industry to the greatest extent possible whilst at the same time maintaining the existing, high standards for the protection of human and animal health and of the environment and without transferring the burden to the competent authorities.

413

414 The impact assessment carried out by the European Commission in preparing their legal proposal
415 identified that the regulatory burden on the veterinary pharmaceutical industry is proportionately
416 substantially higher than the burden on the human industry⁴ and as a consequence, the administrative
417 burden on NCAs is also relatively high. This results from the complexity of the veterinary market which
418 covers, for example, many different species and the need to ensure the safety of foodstuffs derived
419 from treated animals in the case of products for food producing species. Pending finalisation of the new
420 legislation, the network will therefore continue to pursue measures to improve the functioning of the
421 existing legislation wherever possible. These measures will include initiatives within CMDv involving
422 industry to address their concerns related to packaging and labelling, including the use of pictograms
423 and working to improve the functioning of the variation procedures. The network will seek to optimise
424 the operation and decision-making process of all authorisation procedures and cooperate to improve
425 Industry's regulatory excellence to ensure that resources for scientific scrutiny are prioritised to the
426 most important issues.

⁴ Assessment of the Impact of the Revision of Veterinary Pharmaceutical Legislation, 11 July 2011, EPEC

427 The network will optimise the processes for veterinary pharmacovigilance and increase the use of IT
428 tools, thereby improving efficiency for both industry and regulators. This is the first objective of the
429 Veterinary IT and Data Strategy and will lay the basis for the future pharmacovigilance system
430 envisaged in the new legislation. In addition, there is currently a disproportionately high number of
431 reports arising from the use of veterinary medicines in companion animals whilst it is recognised that
432 this does not reflect the balance of products used overall. The network will explore how to improve
433 interactions with veterinary health professionals to increase reporting rates overall and particularly in
434 the area of livestock husbandry.

435 The network will also undertake an extensive programme of preparation to put in place the revised
436 processes and IT systems envisaged in the revised legislation, once the final shape of the new
437 legislation emerges from the discussions in Council and European Parliament.

438 In addition, the network will follow the development of any new legislation governing the effect of
439 chemicals on groundwater, and ensure that the process for the benefit/risk assessment of veterinary
440 medicinal products is fully understood by stakeholders. In the event that new requirements are
441 elaborated, the network will ensure that veterinary medicinal products comply with them.

442 Furthermore, the network will work with the European Commission and stakeholders to enrich the
443 debate in the European Council on the new legislation with the aim of realising the objectives outlined
444 in this strategy in terms of increased availability, reduced regulatory burden and adequate safeguards
445 on the use of veterinary antimicrobials.

446 **Objective 3: Improve the functioning of the single market for veterinary** 447 **medicines within the EU**

The network will seek to maximise the use of the existing legal framework to promote the effective functioning of the single market for veterinary medicines. This will include the availability of veterinary medicines in smaller national markets.

448

449 A characteristic of an effectively functioning single market for veterinary medicines is the availability
450 across the network of a wide range of veterinary products with harmonised conditions for use. To
451 achieve this objective, the network will continue to use the existing legislation to best effect until the
452 new legislation comes into force. The CVMP expects to continue to process a high workload of referrals
453 of antimicrobials and other classes of products for which the conditions of use will be both harmonised
454 and aligned with the principles of prudent and responsible use.

455 The network will also develop the training systems for regulatory personnel within the framework of
456 the Network Training Centre with the aim of achieving a shared perspective on the implementation of
457 regulatory requirements to improve harmonisation.

458 In addition, the network will take into account the challenges of the internet market and will develop a
459 strategy aimed at providing incentives and tools to increase availability in smaller national markets.

460 **Objective 4: Focus on key public and animal health priorities including**
461 **antimicrobial resistance**

The network will continue to be prepared to address public and animal health emergencies and priorities including supply issues. With respect to the use of antimicrobials in veterinary medicine the aim of the network will be to minimise to the greatest extent possible the risks arising from their use in animals, whilst ensuring that sufficient antimicrobials remain available to aid in assuring a continued high level of animal health and to support food security, recognising in particular that 'healthy food comes from healthy animals'.

462

463 In addition to those actions listed under objective 1 of theme 1, the network will continue to define
464 prudent and responsible use for classes of antimicrobials used in veterinary medicine and then take the
465 necessary steps to ensure that the Summary of Product Characteristics (SPC) and labelling of
466 antimicrobial products reflects responsible use in a consistent way across the EU.

467 In line with the European Commission Action Plan, the European Surveillance of Veterinary
468 Antimicrobial Consumption project will continue and further refine the collection of data on the
469 consumption of antimicrobials in veterinary medicine. This will show how successful the measures
470 influencing prescribing patterns are.

471 The network will continue to work on better understanding the relationship between the use of
472 antimicrobials in animals, the development of antimicrobial resistance and the transmission pathways
473 between animals and man so as to target control measures effectively.

474 To achieve the goals regarding other public and animal health priorities the network will address
475 emerging environmental concerns and any safety issues in a cooperative and concerted manner.

476 In addition, the network will continue to review how to best respond to ensure continuity of supply of
477 good quality appropriately authorised medicines, including vaccines. This will reduce the need for
478 Member States to have to use legal provisions that make products available other than through full
479 marketing authorisation. The network will need to improve collaboration in case of supply disruptions
480 or shortage that affect multiple Member States.

481

482 **Theme 3: Optimising the operation of the network**

483 **Introduction**

484 Over the past years important efforts have been made to strengthen the collaboration and cooperation
485 between all parties in the network which is, as was stated in the introduction, a unique and successful
486 construction in the global regulatory environment. This has resulted in various initiatives
487 demonstrating the added value of the European regulatory authorities working together to improve
488 health. However, a multiplicity of challenges (including health challenges, progress in regulatory
489 science, societal trends, upcoming legislative and political changes and the impact of further
490 globalisation) will require the network to find adequate responses and solutions to cope with these
491 challenges in the most efficient way.

492 A critical success factor for the network will be to have available and at its disposal sustainable high-
493 quality scientific and regulatory expertise able to address progress in regulatory science. The scientific
494 and operational procedures carried out by single or various players in the network should be
495 operationally efficient and cost-effective, minimising as much as possible the administrative burden for
496 pharmaceutical industry commensurate with public and animal health. To continue to strengthen a
497 network of excellence, effective communication will be paramount, whereby a proactive communication
498 approach should be fostered at national and European level in view of the aim to strengthen public and
499 political trust in the work of the regulatory authorities and the network. Trust not only relies on the
500 quality of the scientific competence and the output of regulatory authorities, but also on their
501 commitment to seek active involvement of the stakeholders (in particular patients, human and animal
502 healthcare professionals, and the scientific community) in the work of the authorities. The network also
503 needs to work closely with those it regulates.

504 The initiatives proposed in this theme to optimise the operation of the network will take into account
505 that the network encompasses human, veterinary and joint NCAs. This approach allows the veterinary
506 domain to benefit from the economies of scale that arise from being part of a wider network.

507 This theme outlines the strategic objectives of the network to optimise its operation and the main
508 initiatives it will strive to undertake over the next five years to achieve these objectives.

509



510

511

512

513 **Objective 1: Reinforce the scientific and regulatory capacity and capability**
514 **of the network**

The network will adapt the available scientific and regulatory expertise both in terms of capacity and capability to cope with changing demands.

515

516 In order to continue to achieve high-quality, fit for purpose output of the scientific review process there
517 is a need to ensure that NCAs within the network have the necessary expertise at their disposal, both
518 in terms of capacity and capability. Several elements need to be considered by the network for an
519 optimal response: a clear identification of any gaps in scientific and regulatory expertise based on
520 current and future needs, and a corresponding competence development programme, to be delivered
521 through the EU Network Training Centre. Future needs relate to the required skills for the assessment
522 of innovative therapies of the future, for new methodologies to support clinical trial activities (e.g. use
523 of computer systems for capturing clinical data), for using an increasing amount of available health
524 data, and for addressing challenges resulting from meta-data analysis. Other elements are the need to
525 achieve common standards of scientific quality across the EU regulatory network, and to strive for
526 state-of-the-art (scientific) guidelines.

527 With a view of promoting best use of the (scientific) expertise within the network, a more optimal
528 organisation of the available expertise across the network should be considered, avoiding duplication of
529 work, and facilitating enrichment of the expertise through more collaborative working, including
530 enhanced outreach at national level for academic expertise. This should enable a more synergistic
531 approach towards the organisation of the expertise within the network.

532 In addition, the network will continue efforts in order to strike the most optimal balance between
533 ensuring the impartiality and independence of experts and securing the best possible scientific
534 expertise within the network.

535 The network will have to ensure that it remains sustainable over the years to come taking into account
536 an ever-increasing pressure on human and financial resources whilst the workload continues to grow.
537 To address the sustainability challenge various initiatives have started or are ongoing, such as
538 achieving efficiency gains through a continuous review of the business processes, supported by
539 integrated IT systems, or the data gathering initiative, for which a pilot was launched early 2015.

540 **Objective 2: Strive for operational excellence**

The network will optimise scientific and operational procedures and continuously improve the quality of the (scientific) output within the current regulatory framework.

541

542 Over recent years various new pieces of legislation had to be implemented by the network. Some of
543 the new legislative provisions were aiming at reducing the regulatory burden on stakeholders and the
544 administrative burden on NCAs, but there are strong views at the level of stakeholders that there is
545 still further room for optimising the regulatory operations. When reviewing the scientific and
546 operational procedures at national and European level, in order to optimise both the administrative and
547 scientific elements, particular emphasis will be put on their operational efficiency and cost-
548 effectiveness. In addition, there is a need to make sure that the (changing) needs and expectations of
549 the network's stakeholders are captured and well understood. This needs to be underpinned by
550 adequate and inter-operable IT services to the network, recognising the major role that IT systems
551 play in supporting the (regulatory) business processes and a better utilisation of available resources

552 within a complex regulatory environment. A coordinated approach has already been undertaken
553 through the development of a common EU Telematics Strategy, and the network will oversee and
554 closely monitor an efficient implementation of such strategy. It will be important to strive for the most
555 efficient connection between the national and the EU IT systems.

556 Although the need for operational and scientific excellence is well understood and should be the
557 ultimate objective, reducing administrative burden should not lead to a situation whereby the quality of
558 the scientific work is affected which would compromise either human or animal health. Therefore,
559 initiatives to reduce the administrative burden should go hand in hand with initiatives to further
560 strengthen the output, and in particular the scientific quality, of regulatory processes during the life
561 span of medicines. The availability of robust quality systems within the network is important and the
562 well-established Benchmarking of the European Medicines Agencies (BEMA) initiative launched by HMA
563 is a key instrument to share best practices and to look for continuous improvement. The network
564 should ensure that the BEMA results are shared within the network to ensure transparency on best
565 practices. Sharing best practices will allow for additional initiatives to be set up in order to mitigate
566 discrepancies within the network. Furthermore, the BEMA methodology should be adapted to make
567 sure that it can adequately cope with challenges related to progress in regulatory science, and can
568 contribute to continuous improvement of the quality of the (scientific) output. The aforementioned EU
569 Network Training Centre should result in a further enhancement of the quality of the scientific
570 assessment.

571 Efforts have been made over the past years to also reduce the regulatory burden through either
572 legislative change or other initiatives (e.g. the recent simplification in the area of variation
573 applications). However, there are still demands by the pharmaceutical industry for further work to be
574 undertaken in this field. Therefore, the network will consider further optimisation of the regulatory
575 framework within the current legislative provisions. If the need for further legislative change is
576 identified, the network will have to reflect on how this could be best taken forward.

577 A proportionate and effective legal framework for the regulation of medicines is important and the
578 network has a role in influencing the development of legislation to ensure it is appropriate for future
579 products as well as addressing current challenges.

580 **Objective 3: Ensure effective communication of and within the network**

The network will become more effective in communicating its strategic objectives, and communicating with stakeholders in crisis situations.

581

582 A key prerequisite for an efficient operation of the network is an effective communication approach.
583 This is important in order to better communicate the remit of NCAs and defend the decisions they take
584 to protect public and animal health. This should allow to build and maintain trust of civil society at
585 large in the work undertaken by regulators, hereby further strengthening the reputation of regulators
586 and their authority vis-à-vis their stakeholders. To generate understanding and trust, the network
587 must ensure that its approach to communication supports the overall objective of safeguarding human
588 and animal health. Only when trust can be fostered stakeholders will play their part in contributing to
589 such an overall objective.

590 An important action for the network to consider will be to launch the necessary communication
591 initiatives to help achieving its strategic objectives as laid down in this strategy document. This could
592 be undertaken through a five year communication plan. This will ensure that communications are
593 aligned to the overall strategy and are planned in the most effective way.

594 Information on medicinal products can be further improved to encourage better use of medicines by
595 taking better into account the expectations and needs of both patients and healthcare professionals.
596 The network will explore – together with patients and healthcare professionals – how to achieve
597 product information more aligned with stakeholders' expectations and needs.

598 One of the major challenges relates to the handling of emerging events with respect to authorised
599 medicines. Such events are mainly safety concerns or quality defects, putting into question the positive
600 benefit/risk balance of medicines. Important progress in this field has been made since 2010 by
601 putting in place a coordinated approach within the network towards communication on such emerging
602 events. This has allowed adopting whenever possible a proactive approach towards communication
603 within the network, fostering as much as possible a consistent message towards the stakeholders.
604 Nevertheless, the network will have to continue ensuring its outputs are usable, authoritative and
605 reliable. To make further improvement in this field, it will be imperative to even better understand the
606 expectations and needs of its stakeholders, in particular patients and healthcare professionals, so that
607 the necessary measures can be taken.

608 A special point of focus relates to regulators' responses to health emergencies. Although each health
609 crisis always has its own specificities, experience has taught the importance in such situations of
610 timely, consistent and effective communication to the public at large. The network, therefore, will have
611 to consider how to further improve its communication in case of health emergencies, in particular as
612 regards a better coordination of communication on emerging health threats across the network.

613 **Objective 4: Strengthen the links with other authorities and with** 614 **stakeholders**

The network will reinforce its collaboration with other authorities engaged in making medicines and medical devices accessible to patients, and to further improve interactions with its stakeholders.

615

616 HTA/ pricing and reimbursement bodies have an important role in providing access to medicines to
617 patients. The network will strengthen the interaction and collaboration between regulators and HTA/
618 pricing and reimbursement bodies, taking into account their discrete roles, to further enrich the
619 robustness of the scientific review whilst facilitating timely access to medicines (see also theme 1,
620 objective 2).

621 A number of events in the past years in the field of medical devices have underlined the need to
622 provide for a more robust regulatory framework and new legislation is now underway to address such
623 need. There will, however, remain areas, irrespective of the national situation, where collaboration
624 between medicines regulators and medical devices regulators will have to be strengthened, such as in
625 the field of combination products, companion diagnostics, borderline products, and ancillary medicinal
626 substances. The network will explore how such collaboration could be reinforced. In addition,
627 depending on the outcome of the discussions on the new legislation on medical devices, further areas
628 for collaboration with medical devices authorities may be identified, learning from areas of best
629 practice including NCAs who already have joint medicines and devices responsibilities.

630 Ensuring that the needs and expectations of its stakeholders are being addressed should be an
631 important target for the network. It is, therefore, paramount that the views of stakeholders are
632 captured and listened to, especially with respect to those who develop, prescribe and use medicines.
633 The network will put in place more streamlined mechanisms to obtain regular feedback from key
634 stakeholders on the operation of its activities and the quality of its output, which may result, as also

635 explained in objective 2 in the current theme, in a revision of the scientific and operational procedures
636 to optimise their functioning.

637 Increased cooperation will be sought with the other decentralised Agencies of the EU such as the
638 European Chemicals Agency (ECHA), the European Centre for Disease Prevention and Control (ECDC)
639 and the European Food Safety Authority (EFSA) in areas of common interest.

640

641 **Theme 4: Contributing to the global regulatory environment**

642 **Introduction**

643 The network has a long history of developing effective cooperation within the EEA and is therefore well
644 placed to contribute to greater collaboration outside its borders. The trend towards globalisation of
645 pharmaceutical activities, in particular the growth of clinical trial activity in countries outside the EU,
646 increasing reliance on manufacture in developing countries and associated concerns about ethical
647 considerations and counterfeit operations present challenges for the network within a global context.

648 Greater complexity of global supply chains and reliance on clinical data generated outside the EU
649 create a strong public health need to ensure that these activities are properly monitored and
650 controlled, as well as opportunities to develop greater links with international regulators who face the
651 same challenges. All regulators worldwide are facing increasing economic constraints, in the context of
652 which international collaboration can provide opportunities to create synergies, avoid duplication and
653 facilitate work and information sharing.

654 All components of the network have been contributing to international activities by participation in
655 harmonisation activities such as the International Conference on Harmonisation of Technical
656 Requirements for Registration of Pharmaceuticals for Human Use (ICH), the International Cooperation
657 on Harmonization of Technical Requirements for Registration of Veterinary Medicinal Products (VICH),
658 as well as supporting non-EU regulators through work with WHO, the Organisation for Economic Co-
659 operation and Development (OECD), the World Organisation for Animal Health (OIE) etc. for over 20
660 years. As the world of medicines regulation has expanded globally, the need to strengthen regulatory
661 systems worldwide as described in the 2014 World Health Assembly (WHA) resolution has become a
662 priority. Smaller and emerging non-EU regulators are looking to the network for support and capacity
663 building and the EU model is increasingly explored as a model for other regional harmonisation
664 initiatives. Opportunities to support these initiatives in a coordinated manner across the EU network
665 need to be explored.

666 A growing trend to include pharmaceutical activities in trade negotiations between the EU and third
667 countries has implications for the network, as does the emergence of new international networks and
668 coalitions where a coordinated and consistent approach should be taken, avoiding all unnecessary
669 duplication, and ensuring both adequate network representation and appropriate feedback.

670



671

672 **Objective 1: Assure product supply chain and data integrity**

The network will intensify measures to continue to assure product, supply chain and data integrity within increasingly complex global supply chains.

673

674 Industry figures show that about 80 percent of active pharmaceutical ingredients used in medicines
675 authorised in Europe are manufactured outside the EU. While there continues to be substantial finished
676 product manufacture within the EU, the EU also imports a significant percentage of pharmaceuticals
677 and/or products which have been partially or fully manufactured outside the EU. The complexity of
678 international supply chains present risks of errors and occasionally counterfeits or product diversion.
679 Key to ensuring supply chain integrity is to make sure that all steps in the supply chain are adequately
680 controlled and monitored, both at an individual company level and through appropriate regulatory
681 oversight including inspections and audits. Sharing of information between regulators responsible for
682 oversight of different manufacturing stages and ensuring that the same standards are applied
683 irrespective of manufacturing location will help minimise possible problems.

684 Closely linked to these challenges is the need to ensure the integrity of the data on which regulatory
685 decisions about medicines are based. Concerns about data integrity may arise for many reasons e.g.
686 poor training, inadequate implementation or occasionally due to suspicions of falsification. The integrity
687 of the data in the studies used to support market authorisation is fundamental to trust and confidence
688 in the products themselves.

689 The network will work with global partners to address the challenges posed by increasingly complex
690 supply chains, global industries and falsified and counterfeit medicines.

691 Mechanisms to facilitate greater information sharing to enhance oversight including common
692 approaches to identification of suppliers and supplier sites and linkages between inspection databases
693 will be explored by the network.

694 The network will ensure that all suspicions of problems with data integrity are thoroughly investigated
695 working closely with other international partners where these data may have been generated or used.

696 Efforts to understand the drivers behind inadequate practices will be made with a view towards
697 promoting a culture of compliance and trust.

698 **Objective 2: Convergence of global standards and contribution to** 699 **international fora**

The network will take a lead role in convergence of global standards assuring appropriate representation in international fora and will put in place mechanisms to strengthen cooperation with non-EU regulators in a consistent and integrated manner.

700

701 The globalisation of pharmaceutical operations is a driver for convergence of international standards
702 and approaches. If equivalent standards of good manufacturing practices and good clinical practices
703 are applied in countries which supply pharmaceuticals internationally and in which clinical trials are
704 performed, the opportunities for cooperation and mutual reliance can be strengthened thus facilitating
705 better use of collective resources, avoiding duplication and sharing of best practices. Similarly,
706 international electronic standards are key to effective information sharing and need to be implemented
707 across the network.

708 The network is built on the equivalence of standards and approaches and is therefore well placed to
709 facilitate the extension of these standards and approaches in other regions. Aspects of the EU falsified
710 medicines directive implemented in 2013 helped to establish principles of international trust and
711 cooperation and stressed the value of supervision of manufacturers by local regulators and mutual
712 communication.

713 The network has traditionally supported established fora such as the International Conferences of
714 Harmonisation (ICH and VICH), the International Regulatory Cooperation on Herbal Medicines (IRCH)
715 and Pharmaceutical Inspection Convention and Pharmaceutical Inspection Co-operation Scheme
716 (PIC/S) with a view towards contributing to convergence of global standards. One of the aims of the
717 reform of ICH spearheaded by the European Commission since 2011 is to become more inclusive by
718 opening up to new members and countries. Similarly VICH has embarked on a global outreach
719 initiative. Members of the EU network also actively support the work of WHO and OIE in developing
720 standards and in training and capacity building.

721 The emergence of new cooperative mechanisms between international regulators such as the
722 International Coalition of Medicines Regulatory Authorities (ICMRA), the International Pharmaceutical
723 Regulators Forum (IPRF) and the International Generic Drug Regulators Pilot (IGDRP) provide
724 opportunities for the EU network to contribute to the future shape of international collaboration.

725 Countries such as China and India have become important suppliers to the network, both in terms of
726 manufacturing and as countries where increasing number of clinical trials, including bioequivalence
727 trials, are performed and the regulators in these countries are key partners for the network and in the
728 context of other international convergence mechanisms and networks.

729 The network, in close cooperation with WHO, will take a lead role in convergence of global standards
730 through existing fora aimed at harmonisation and convergence of approaches.

731 An integrated and consistent approach to cooperation with countries such as India and China will be
732 promoted by the network.

733 Mechanisms will be put in place to ensure that participation in international fora is representative and
734 consistent and that feedback is provided to the network.

735 **Objective 3: Ensure best use of resources through promoting mutual** 736 **reliance and work-sharing**

The network will promote best use of collective global resources by improving information and work sharing with non EU regulatory partners and encouraging adoption of European regulatory approaches.
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737

738 Changes in the economic environment which place ever increasing pressure on limited resources
739 combined with greater understanding of the similarity of challenges faced by regulators worldwide
740 have increased the opportunities for work-sharing and mutual reliance in the area of medicines
741 regulation. The network with a history of Mutual Recognition Agreements (MRA) on GMP as well as its
742 own established cooperation mechanisms is well placed to further widen these collaborations. Political
743 initiatives in the form of trade agreements between the EU and non-EU countries increasingly include
744 pharmaceuticals as an area of cooperation. Recent examples include the TTIP, CETA and FTAs with
745 Japan and Singapore. Such agreements can provide opportunities to extend reliance on GMP and GCP
746 inspections with those authorities who already apply equivalent standards and it is important that the
747 network contributes actively to these discussions. Similarly increasing focus on the need for
748 cooperation on the evaluation of generic medicines have recognised the European regulatory system

749 as a model to be followed and a pilot collaboration mechanism has been launched involving both
750 decentralised and centralised procedures. Extending these approaches to innovative medicines should
751 also be explored.

752 The network will explore the opportunities presented by draft trade agreements and other mechanisms
753 to promote greater mutual reliance on inspection outcomes in both, human and veterinary medicines.

754 The network will also work to strengthen mutual reliance, trust and synergies in order to achieve
755 better use of collective resources/work products, avoiding duplication and sharing of best practices.

756 In the area of generic medicines evaluation, the network will review and build upon the information
757 sharing pilots to promote the leveraging of regulatory authorities' collective resources.

758 In addition, the network will improve the mechanisms in place to share information with other
759 regulators across the globe on products throughout their life cycle.

760 Furthermore, opportunities to leverage resources in other areas and to increase reliance of other
761 regulators on European Assessments and outputs will be explored.

762 **Objective 4: Support training and capacity building and promote the EU** 763 **regulatory model**

The network will build on existing approaches to training and capacity building for non-EU regulators in order to promote international best practices.

764

765 As mentioned in the introduction to this theme, non-EU regulators are increasingly looking to the
766 network for support and capacity building and as a model for their regional harmonisation initiatives.
767 Taking into account the limited resources available, increasing demands for capacity building and
768 collaborative approaches amongst regulators worldwide should be met by first identifying mutual
769 priorities and then establishing mechanisms to deliver a coordinated response across the network. The
770 network will build on existing training and capacity building approaches such as the GCP and
771 Pharmacovigilance inspector training courses, the Paediatric medicines regulatory network and ICH and
772 VICH training and IPRF activities to greater promote international practices in developing countries to
773 the benefit of the network.

774 The network will review training and capacity requests received through different organisations to
775 ensure these can be addressed in a synergistic manner using the collective resources of the network.

776

777 **Glossary**

778

779	BEMA	Benchmarking of European Medicines Agencies Steering Group
780	CAT	Committee for Advanced Therapies
781	CETA	Comprehensive Economic and Trade Agreement
782	CHMP	Committee for Medicinal Products for Human Use
783	CMDh	Co-ordination group for Mutual recognition and Decentralised procedures – human
784	CMDv	Co-ordination group for Mutual recognition and Decentralised procedures – veterinary
785	COMP	Committee for Orphan Medicinal Products
786	CVMP	Committee for Medicinal Products for Veterinary Use
787	EEA	European Economic Area
788	EMA	European Medicines Agency
789	EU	European Union
790	FMD	Falsified Medicines Directive
791	FTA	Free Trade Agreement
792	GCP	Good Clinical Practices
793	GMP	Good Manufacturing Practice
794	HMA	Heads of Medicines Agencies
795	HMPC	Committee on Herbal Medicinal Products
796	HTA	Health Technology Assessment
797	ICH	International Conference on Harmonisation of Technical Requirements for Registration of
798		Pharmaceuticals for Human Use
799	ICMRA	International Coalition of Medicines Regulatory Authorities
800	IGDRP	International Generic Drug Regulators Pilot
801	IPRF	International Pharmaceutical Regulators Forum
802	IRCH	International Regulatory Cooperation on Herbal Medicines
803	MRA	Mutual Recognition Agreement
804	MRL	Maximum Residue Limit
805	MUMS	Minor Use Minor Species
806	NCA	National Competent Authority
807	OECD	Organisation for Economic Co-operation and Development
808	OIE	World Organisation for Animal Health
809	OMCLs	Official Medicines Control Laboratories

810	PDCO	Paediatric Committee
811	PIC/S	Pharmaceutical Inspection Convention and Pharmaceutical Inspection Co-operation Scheme
812	PRAC	Pharmacovigilance Risk Assessment Committee
813	SME	Small and medium-sized enterprises
814	SmPC	Summary of Product Characteristics
815	TTIP	Transatlantic Trade and Investment Partnership
816	VICH	International Cooperation on Harmonization of Technical Requirements for Registration of
817		Veterinary Medicinal Products
818	WHA	World Health Assembly
819	WHO	World Health Organization