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3 Committee for Medicinal Products for Human Use (CHMP)/Methodology Working Party (MWP)

4 **Draft Concept Paper on the Development of a Reflection**
5 **Paper on the Use of External Controls for Evidence**
6 **Generation in Regulatory Decision-Making**
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Agreed by Methodology Working Party (MWP)	May 2025
To be adopted by CHMP PROM for release for consultation	14 July 2025
Start of public consultation	25 July 2025
End of consultation (deadline for comments)	31 October 2025

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9 Comments should be provided using this [EUSurvey form](#). For any technical issues, please contact the [EUSurvey Support](#).

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Keywords	Clinical trial design, external controls, regulatory decision-making
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12 **1. Introduction**

13 Randomised controlled trials are the gold standard of evidence to support causal conclusions on the benefits and risks of medicines in regulatory decision making along the lifecycle.

14 However, in some situations, causal conclusions may be derived from a setting where the
15 investigational medicinal product data was collected under a clinical trial protocol while the control arm
16 (counterfactual in the causal claim) was not a randomized arm in that same protocol. In these
17 situations, a so-called external control, may be derived from data from other clinical trials, real-world
18 data (RWD) or other data sources.

19 Although various guidance exists on topics pertinent in this area (see, i.e. [1] – [7]), specific
20 regulatory guidance on the use of external controls to support regulatory decision making in Europe is
21 currently lacking.



22 **2. Problem statement**

23 Recent developments in data availability and statistical/pharmacoepidemiological methodology have
24 led to an increase in proposals using external controls to support regulatory decision making.

25 However, further reflection on the methodological reliability and operational aspects of such
26 approaches is needed.

27 Acknowledging that a standard definition of external controls is currently not available, this will be
28 addressed in the reflection paper.

29 The reflection paper will outline general principles for assessing when external controls could be
30 appropriate for regulatory decision making.

31 **3. Discussion (on the problem statement)**

32 The aim of the reflection paper is to describe the main challenges with external controls and further
33 discuss the circumstances and methodological constraints under which the use of external controls
34 could be considered appropriate for generating pivotal or supportive evidence, either for efficacy,
35 safety or other relevant regulatory decision-making objectives. The reflection paper will discuss the
36 following aspects:

- 37 • Definition of an external control
- 38 • The appropriate clinical and regulatory setting and minimal requirements for external controls
- 39 • Operational and feasibility aspects
- 40 • Planning, design, conduct, analysis and reporting of studies for which external controls are
41 used and related methodological aspects such as considerations on minimization of bias and
42 confounding, the definition of estimands, target trial emulation, type 1 error control, sample
43 size
- 44 • Prospectively planned external control comparisons vs comparisons conducted when results are
45 already available (either trial data, external control or both)
- 46 • Data quality: relevance, reliability, extensiveness, timeliness
- 47 • Source(s) of the external data
- 48 • Individual patient level data, (semi-)aggregated data

49 There are other potential uses of external data which are out of scope of this concept paper, for
50 example:

- 51 • Use of historical data for contextualisation (e.g., to understand the clinical context by
52 describing standards of care, variability in clinical practices and unmet medical needs). Related
53 aspects have already been addressed in existing guidance [2].
- 54 • External control data used to augment randomised controlled trials. As this regards a
55 fundamentally different clinical and regulatory setting and the methodological aspects are
56 specific to augmentation, these designs will be discussed in other regulatory documents under
57 development.
- 58 • Indirect comparisons using a network meta-analysis. These are usually based on comparisons
59 of results between randomized controlled trials which is beyond the scope of this reflection

60 paper. They are conducted within fundamentally different clinical and regulatory settings with
61 methodological aspects that are specific to network meta-analyses.

62 **4. Recommendation**

63 MWP recommends drafting a reflection paper on the use of external controls for evidence generation in
64 regulatory decision-making to address the points outlined above.

65 **5. Proposed timetable**

66 Establishment and endorsement of temporary Drafting Group (tDG) in Q1 2025. Release of draft
67 concept paper for public consultation in Q3 2025. A workshop with external participants is planned on
68 3 November 2025. Finalisation of concept paper in Q1 2026.

69 Discussion of draft reflection paper at the Committee for Medicinal Products for Human Use (CHMP) in
70 Q4 2026 followed by 3-months public consultation. Finalisation and adoption by CHMP expected by Q2
71 2027.

72 **6. Resource requirements for preparation**

73 A tDG, co-led by 2 MWP members and consisting of experts from the European Specialised Expert
74 Community (ESEC) for Methodology was established. Additional expertise from the Scientific Advice
75 Working Party (SAWP), the CHMP, the Pharmacovigilance Risk Assessment Committee (PRAC) and
76 relevant clinical Working Parties would be envisaged for the tDG. Regular discussions with and
77 adoption by MWP are planned.

78 The tDG meets regularly and the meeting format and frequency is adapted to the drafting process.

79 A hybrid workshop with large participation from the European Medicines Regulatory Network and
80 Pharmaceutical Industry Associations as well as academics, patients, health care professionals and
81 other stakeholders (such as Health Technology Assessment (HTA) body representatives) is planned on
82 3 November 2025.

83 **7. Impact assessment (anticipated)**

84 The reflection paper will enhance the understanding of methodological concepts and challenges. It will
85 outline criteria for the potential acceptance of the use of external controls and aspects to be taken into
86 account at the planning, conduct and reporting stages. It will allow for consistent assessment and
87 ultimately support better informed decision making.

88 **8. Interested parties**

89 Guidance on this topic is expected to be important to the following Committees and Working Parties
90 who should hence be closely engaged in the drafting stage: CHMP, SAWP, the Committee for Advanced
91 Therapies (CAT), the Committee for Orphan Medicinal Products (COMP), the Paediatric Committee
92 (PDCO), the Oncology Working Party (ONC WP), PRAC.

93 As the reflection paper is of relevance for the Clinical Trials Coordination Group (CTCG) and HTA
94 bodies, they will be kept informed regularly on the developments on this topic.

95 As any guidance will be of high relevance to Industry stakeholders, a scientific workshop will be held
96 on 03 November 2025 where Industry representatives will be invited to share their challenges,

97 opportunities and perspectives on this topic, and to foster scientific discussions among regulators and
98 Industry stakeholders.

99 Academic, patient and health care professionals' views will also be taken into consideration, i.e.
100 through the workshop and the subsequent public consultation phase.

101 **9. References to literature, guidelines, etc.**

102 [1] [ICH E9](#) Statistical principles for clinical trials, published in 1998.

103 [2] Reflection paper on use of real-world data in non-interventional studies to generate real-world
104 evidence (Reference number: [EMA/99865/2025](#)), published in 2025.

105 [3] Guideline on registry-based studies (Reference number: [EMA/426390/2021](#)), published in 2021.

106 [4] Data Quality Framework for EU medicines regulation (Reference number: [EMA/326985/2023](#)),
107 published in 2023.

108 [5] Reflection paper on establishing efficacy based on single-arm trials submitted as pivotal evidence
109 in a marketing authorisation application (Reference number: [EMA/CHMP/430688/2024](#)), published
110 in 2024.

111 [6] Clinical trials in small populations (Reference number: [CHMP/EWP/83561/2005](#)), published in
112 2006.

113 [7] [ICH E10](#) Choice of control group in clinical trials, published in 2001.