



# eunethta

EUROPEAN NETWORK FOR HEALTH TECHNOLOGY ASSESSMENT

EUnetHTA 21

**Practical Guideline**

**D4.2 SCOPING PROCESS**

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### Disclaimer

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### Participants

<b>Hands-on Group</b>	Gemeinsamer Bundesausschuss, [G-BA], Germany Haute Autorité de Santé, [HAS], France Institut für Qualität und Wirtschaftlichkeit im Gesundheitswesen, [IQWiG], Germany Zorginstituut Nederland, [ZIN], The Netherlands
<b>Project Management</b>	Zorginstituut Nederland, [ZIN], the Netherlands
<b>CSCQ / CEB</b>	Agencia Española de Medicamentos y Productos Sanitarios [AEMPS], Spain Austrian Institute for Health Technology Assessment [AHTA], Austria Belgian Health Care Knowledge Centre, [KCE], Belgium Gemeinsamer Bundesausschuss, [G-BA], Germany Haute Autorité de Santé, [HAS], France Institut für Qualität und Wirtschaftlichkeit im Gesundheitswesen, [IQWiG], Germany Italian Medicines Agency, [AIFA], Italy National Authority of Medicines and Health Products, I.P., [INFARMED], Portugal National Centre for Pharmacoconomics, St. James Hospital, [NCPE], Ireland National Institute of Pharmacy and Nutrition, [NIPN], Hungary Norwegian Medicines Agency, [NOMA], Norway The Dental and Pharmaceutical Benefits Agency, [TLV], Sweden Zorginstituut Nederland, [ZIN], The Netherlands

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## External Stakeholder Contribution

The draft deliverable was reviewed by associated HTA bodies and was open for public consultation between 02.05.2022 and 31.05.2022.

<b>Associated HTA bodies that reviewed the draft deliverable</b>	
Agenzia Nazionale per i Servizi Sanitari Regionali (AGENAS)	Italy
Dachverband der Österreichischen Sozialversicherung (DVSV)	Austria
Finnish medicines agency (Fimea)	Finland
Gesundheit Österreich GmbH/Geschäftsbereich (GÖG)	Austria
Ministry of Health, Malta	Malta
Norwegian Institute for Public Health (NIPH)	Norway
Regione Emilia-Romagna (RER)	Italy
The Public Agency of the Republic of Slovenia for Medicinal Products and Medical Devices (JAZMP)	Slovenia
<b>Stakeholders that participated in the public consultation</b>	
<b><i>Within EU/EEA countries, or stakeholder that have a direct link to the HTAR</i></b>	
Advanced Medical Services GmbH (AMS)	Germany
International Association of Mutual Benefit Societies (AIM)	Belgium
Alliance for Regenerative Medicine (ARM)	Belgium
AstraZeneca (AZ)	Global (UK based)
BIOTRONIK SE & Co. KG	Germany
Bundesarbeitsgemeinschaft Selbsthilfe von Menschen mit Behinderung und chronischer Erkrankung und ihren Angehörigen e.V. (BAG SELBSTHILFE)	Germany
Ecker + Ecker GmbH (E+E)	Germany
Edwards Lifesciences	Europe
European Federation of Pharmaceutical Industries and Associations (EFPIA)	Belgium
European Confederation of Pharmaceutical Entrepreneurs (EUCOPE)	Belgium
European Federation of Statisticians in the Pharmaceutical Industry (EFSPI) HTA SIG	Europe
European Union of General Practitioners/Family Physicians (UEMO)	Belgium
European Organisation for Rare Diseases (EURORDIS)	Belgium
F. Hoffmann-La Roche Ltd (Roche)	Switzerland
German Medicines Manufacturer's Association (BAH)	Germany
GKV-Spitzenverband (GKV-SV)	Germany
GSK	UK
IGES Institut GmbH and HealthEcon AG	Germany
Lumarity	Lumarity is a global company with several European entities, including in Ireland and the Netherlands.
MedTech Europe (MTE)	Europe - Belgium
Medtronic	Switzerland
Norwegian Institute of Public Health (NIPH)	Norway
SKC Beratungsgesellschaft mbH (SKC)	Germany
Takeda Pharmaceuticals International AG	Public affairs office in Belgium, European head office in Switzerland, pan-European local operating companies
Vaccines Europe	Belgium
Verband Forschender Arzneimittelhersteller e.V. (vfa)	Germany
<b><i>Outside EU/EEA countries</i></b>	
College of Pharmaceutical sciences, Dayananda sagar university	India
PHMR Limited	UK

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## TABLE OF CONTENTS

<b>DOCUMENT HISTORY AND CONTRIBUTORS .....</b>	<b>2</b>
<b>TABLE OF CONTENTS .....</b>	<b>5</b>
<b>LIST OF TABLES .....</b>	<b>6</b>
<b>LIST OF FIGURES .....</b>	<b>6</b>
<b>LIST OF ABBREVIATIONS .....</b>	<b>7</b>
<b>GLOSSARY .....</b>	<b>8</b>
<b>1 INTRODUCTION .....</b>	<b>9</b>
1.1 <i>THE ASSESSMENT SCOPE</i> .....	9
1.2 <i>ROLE OF THE PICO IN THE ASSESSMENT</i> .....	9
1.3 <i>DEFINITION OF THE PICO(S) FOR AN ASSESSMENT</i> .....	10
1.4 <i>RELEVANT ARTICLES IN REGULATION (EU) 2021/2282</i> .....	10
<b>2 SCOPE AND OBJECTIVE OF THE GUIDELINE .....</b>	<b>11</b>
<b>3 THE SCOPING PROCESS .....</b>	<b>12</b>
3.1 <i>THE PICO SURVEY</i> .....	12
3.2 <i>PICO CONSOLIDATION</i> .....	18
3.3 <i>PICO VALIDATION: CSCQ JCA MEETING</i> .....	23
3.4 <i>RISK OF LABELLING/CE MARKING INDICATION(S) CHANGE</i> .....	23
<b>4 INFORMATION FOR THE HTD .....</b>	<b>24</b>
<b>5 DATA PRESENTATION IN THE HTA REPORT CONSIDERING THE PICO(S) .....</b>	<b>25</b>
<b>6 IMPACT OF THE STATISTICAL ANALYSIS PLAN OF THE ORIGINAL STUDY VERSUS THE PICO(S) ON THE EVIDENCE ASSESSMENT IN THE HTA REPORT .....</b>	<b>26</b>
<b>7 FURTHER RELEVANT DOCUMENTS .....</b>	<b>27</b>
<b>8 CONSIDERATIONS FOR THE HTA REGULATION .....</b>	<b>28</b>
8.1 <i>PICO CONSOLIDATION WORKING GROUP (PC-WG)</i> .....	28
8.2 <i>BILATERAL EXCHANGES WITH THE PICO SURVEY RESPONDENTS</i> .....	28
8.3 <i>OTHER RECOMMENDATIONS</i> .....	30
<b>APPENDIX A - PICO SURVEY FORM .....</b>	<b>31</b>
<i>MEDICINAL PRODUCTS JCA/HIGH-RISK MEDICAL DEVICE JCA PICO FORM</i> .....	31
<b>APPENDIX B – ADDITIONAL DOCUMENTS .....</b>	<b>32</b>

## LIST OF TABLES

Table 3-1: PICO of Member State 1 .....	18
Table 3-2: PICO of Member State 2.....	18
Table 3-3: PICO of Member State 3.....	19
Table 3-4: PICO of Member State 4.....	19
Table 3-5: List of submitted comparators for the full indication (separated by Member State) .....	19
Table 3-6: List of submitted comparators for Subpopulation A (separated by Member State) .....	20
Table 3-7: List of submitted comparators for Subpopulation B (separated by Member State) .....	20
Table 3-8: Consolidated PICOs based on Member State requests .....	23

## LIST OF FIGURES

Figure 1-1: Role of the PICO in the assessment .....	10
Figure 3-1: Steps for the scoping process .....	14
Figure 3-2: Considerations for comparators.....	16
Figure 3-3: The four steps of the PICO consolidation process .....	22
Figure 5-1: Data presentation according to PICO(s).....	25
Figure 8-1: PICO work flow .....	29

## LIST OF ABBREVIATIONS

BSC	Best Supportive Care
CE	Conformité Européenne
CHMP	Committee for Medicinal Products for Human Use
CSCQ	Committee for Scientific Consistency And Quality
EMA	European Medicines Agency
EU	European Union
HTA	Health Technology Assessment
HTAR	HTA Regulation
HTD	Health technology developer
JA2	Joint Action 2
JCA	Joint Clinical Assessment
JSC	Joint Scientific Consultation
SoC	Standard of Care
MD	Medical device (class IIb and class III)
MDCG	Medical Device Coordination Group
MS	Member State
PICO	Population, Intervention, Comparators, Outcomes

## GLOSSARY

Best-Supportive Care (BSC)	Therapy ensuring the best possible, patient-individually optimized, supportive treatment to alleviate symptoms and improve health-related quality of life. "supportive" means that the treatment is not primarily causally addressing the given disease.
Comparators	Options against which the new health technology is compared, with the goal of determining if it provides additional benefits.
Individualized treatment	An individualized treatment is chosen for an individual patient by the physician from multiple available treatment options (all considered standards of care depending on patient characteristics). The choice is based on individual patient characteristics which should regularly be considered for the treatment decision (e.g. pre-treatment, severity of disease, general health status, localisation of tumor).
Policy question	The particular interest of a Member State considering the national context and health system, defining the assessment scope of a clinical assessment. The outcome of a clinical assessment and the national appraisal provide the answer to the policy question from the perspective of the Member State.
Subgroup	A subset of the study population defined by one or more specific patient characteristics (e.g. age, sex, mutations) measured at baseline. Subgroup analyses are performed to investigate potential effect modifications which are associated with these specific patient characteristics. The definition of subgroups will not lead to new PICO. Subgroup analyses are performed within a given PICO.
Subpopulation	<p>A subset of the patient population covered by the therapeutic indication. The definition of subpopulations during the scoping process results in separate PICOs for each subpopulation.</p> <p>Subpopulations can be defined in order to address different policy questions.</p> <p>Potential reasons to define separate subpopulations, i.e. separate PICOs for each subpopulation, are:</p> <ul style="list-style-type: none"> <li>- the therapeutic indication explicitly comprises different subpopulations, e.g. defined by certain tumor entities,</li> <li>- different comparators are deemed appropriate for the subpopulations,</li> <li>- different prognosis of the subpopulations and therefore different effectiveness is expected.</li> </ul>
Watchful waiting	Status in which there is no indication for a therapeutic intervention, neither for a causal treatment nor for a symptomatic or supportive treatment unless symptoms appear or change.



## 1 INTRODUCTION

### 1.1 *The assessment scope*

The basis of a Health Technology Assessment (HTA) is a set of defined research questions that are to be answered by the assessment and that together define the assessment scope. In the context of the European HTA, the assessment scope reflects policy questions from the different healthcare systems in which the HTA will be used. The PICO framework provides a standard format for specifying research questions, detailing the following parameters:

- P (population),
- I (intervention),
- C (comparator),
- O (outcomes).

For more details on the relevant policy questions and the PICO framework, see the PICO concept paper, which was developed in EUnetHTA Joint Action 3.<sup>1</sup>

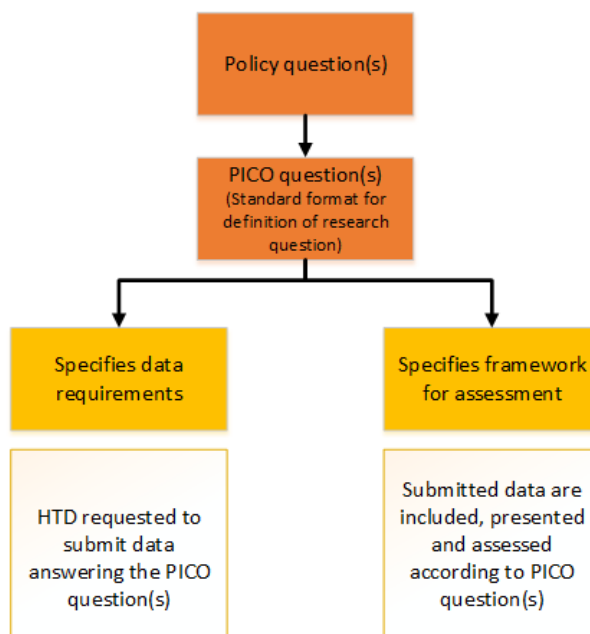
According to Regulation (EU) 2021/2282 (HTA Regulation, HTAR), the overall assessment scope for the joint clinical assessment shall be inclusive and reflect Member States' (MS) needs [Article 8 (6)]. This means that the assessment should cover the PICO(s) requested by the MS.

### 1.2 *Role of the PICO in the assessment*

By principle, the scope of the assessment of an intervention should not be data driven, that is, the research questions should not be deduced from the available studies. Rather, an appropriate translation of national policy questions into research questions is performed during the planning stage of the assessment. This means that a particular research question (the PICO) is prespecified for a given assessment. As such, the definition of the PICO question(s) specifies the data requirements. For an assessment that is based on a submission by a health technology developer (HTD), the PICO specifies the data requested from the HTD. Furthermore, the PICO question(s) specify the framework for the assessment (Figure 1-1).

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<sup>1</sup> <https://www.eunethta.eu/pico/>



26

27 **Figure 1-1: Role of the PICO in the assessment**

28 HTD=health technology developer; PICO=Population, Intervention, Comparators, Outcomes.

### 29 **1.3 Definition of the PICO(s) for an assessment**

30 The PICO(s) for an assessment is defined during the scoping process. The scoping process is initiated  
31 by the Joint Clinical Assessment (JCA) secretariat according to the timeframe for, and well in advance  
32 of, the JCA. The aim of the scoping process is to identify the relevant PICO(s) for the assessment scope.  
33 As mentioned above, according to Regulation (EU) 2021/2282 [Article 8(6)], the assessment scope  
34 should be inclusive and reflect the MS needs.

35 To collect information about the MS needs, a PICO survey is conducted among the MS in which the MS  
36 provide information about their needs in terms of the PICO parameters (Section 3.1 PICO survey). To  
37 minimise the number of PICO(s), the assessor and co-assessor consolidate the PICO(s) as much as  
38 possible. Depending on the MS needs, the assessment scope can comprise one or more PICO(s)  
39 (Section 3.2).

40 The final assessment scope is provided to the HTD. It defines the data request for the assessment and  
41 enables the submission of a dossier in principle meeting the needs of MS.

### 42 **1.4 Relevant articles in Regulation (EU) 2021/2282**

43 Articles from Regulation (EU) 2021/2282 directly relevant to the content of this practical guideline are:

- 44 • Article 8: Initiation of joint clinical assessments;
- 45 • Article 9: Joint clinical assessment reports and the dossier of the health technology developer;
- 46 • Article 10: Obligations of health technology developers and consequences of noncompliance.

47

48 Throughout this document, any mention of articles refers to this Regulation.

## 49 **2 SCOPE AND OBJECTIVE OF THE GUIDELINE**

50 The objective of this practical guideline is to support the assessor and co-assessor in developing the  
51 assessment scope by describing the methods and principal steps of the scoping process. It covers the  
52 process from setting up the PICO survey to informing the HTD about the PICO(s).

53 In addition, the guideline describes the data presentation considering the definition of PICO(s).  
54 Furthermore, the impact of the statistical analysis plan of the original study versus the PICO(s) on the  
55 evidence assessment in the HTA report is addressed.

56

## 57 **3 THE SCOPING PROCESS**

58 In EUnetHTA 21, the scoping process starts with submission of a request for assessment by the HTD  
59 and ends when the consolidated final PICO is communicated to the HTD. Figure 3.1 lists the steps  
60 involved.

### 61 **3.1 The PICO survey**

#### 62 **3.1.1 Objective of the PICO survey**

63 The PICO survey provides the opportunity for each MS to identify and provide their national needs. It is  
64 the responsibility of each MS to ensure that their inputs during the PICO survey match their needs in  
65 terms of parameters and of the information, data, analysis, and other evidence to be submitted by the  
66 HTD [see requirements laid down in Article 8(6)].

#### 67 **3.1.2 Process for assessors` proposal for PICO survey**

68 The process starts when a product is identified to be the subject of a JCA and therefore, a PICO(s)  
69 proposal is needed. To start the procedure, assessors need to be informed of the claimed therapeutic  
70 indication for that product.

71 Once the assessors receive the information on the claimed therapeutic indication for the product  
72 identified, they will:

- 73 • Identify relevant European guidelines in the disease area to have information on the natural history  
74 of the disease, available alternatives and relevant outcomes;
- 75 • Identify alternative guidance documents (if European guidelines are not identified for the disease  
76 area of the claimed therapeutic indication);
- 77 • Obtain clinical opinion, if possible.

78 Based on the information identified, the assessors should then propose the PICO question(s) required  
79 to answer a clinical/medical care question. Such PICO(s) proposal(s) should have background  
80 information, as per the PICO Background Document Template [see Appendix B].

81 A meeting between the assessor and co-assessor for the discussion of the first draft of the PICO  
82 proposal is anticipated. Once the assessors agree on the draft proposal, the JCA Secretariat shares  
83 the draft PICO proposal, with the justification and background information, with Member States (MS).  
84 The Secretariat also develops the survey, where MS identify and provide their national needs. MS  
85 need to identify which PICO(s) from the assessors` proposal fulfil their needs. If any adjustments are  
86 needed, MS should outline the required adjustment and provide the rationale behind it in the specific  
87 field in the survey. Further, MS can submit one or more additional PICO(s) and should provide a  
88 rationale behind it in the survey, when this is needed to fulfil their needs.

#### 89 **3.1.3 Available data for PICO survey**

90 The questionnaire for the PICO survey takes into account information provided by the HTD [Article 8(6)];  
91 that is, information on the intervention to be assessed and the indication for which the HTD applied in  
92 the regulatory submission dossier (in the case of medicinal products) or the intended use according to  
93 the conformity assessment [in the case of medical devices (MD)]. This information is to be provided by  
94 the HTD upon request, before the beginning of the scoping process. In the EUnetHTA 21 context, this  
95 will be requested by means of a letter of intent (LoI) submitted by the HTD to the EUnetHTA 21  
96 secretariat and this information will be made available to the MS. Under the HTAR, the submission of  
97 the LoI is not a legal requirement. The process will be duly initiated by the Member State Coordination  
98 Group on HTA (HTACG). The process is still under development.

99 The MS will be made aware of any Joint Scientific Consultation (JSC) that might have taken place for  
100 the medicinal product or MD under assessment. However, JSC recommendations might no longer be  
101 applicable because of changes in the underlying conditions (intended therapeutic indication, dynamic

102 therapeutic landscape for comparators, etc.). The PICO for the assessment should be generated under  
103 the conditions existing at the time of the survey.

#### 104 **3.1.4 Format of the PICO survey**

105 The PICO survey is conducted by the JCA secretariat via an online platform accessible to all MS. MS  
106 are expected to answer within approximately 2 weeks.

107 To meet the objective of the HTAR, which is an inclusive scope, all MS shall participate in the PICO  
108 survey.

#### 109 **3.1.5 Expected inputs to the PICO survey**

110 The PICO survey asks the MS to express their PICO requirements based on the assessors` proposal  
111 and to submit one or more additional PICO(s), if the assessors` proposal does not fully cover the national  
112 needs of the MS. It is the responsibility of the MS to define the PICO parameters according to their  
113 national legal and procedural requirements. The inputs can be found in Appendix A.

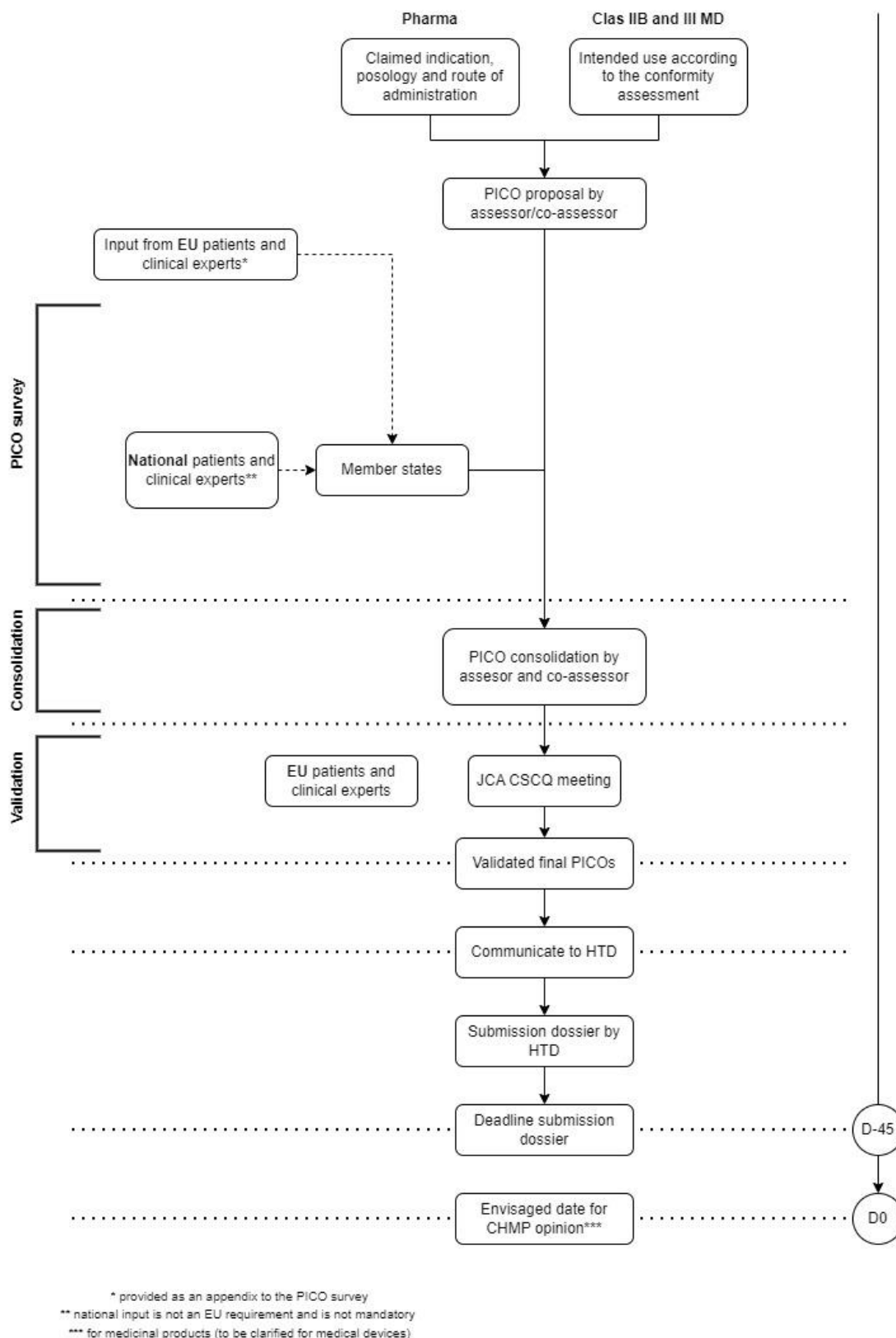
114 Given that any specific request might broaden the scope and increase the workload of the European  
115 assessment, MS are asked to limit their requests to the extent necessary for their national decision-  
116 making.

117 During the scoping phase, inputs from EU patients and experts will be taken into account. The process  
118 of which is detailed in deliverable 7.2. Member States are encouraged to involve national patient and  
119 clinical experts in the scoping process.

120 Further explanation of each parameter of the PICO is given below.

121

122



123

124 **Figure 3-1: Steps for the scoping process**

125 CHMP=Committee for Medicinal Products for Human Use; CSCQ=Committee for Scientific Consistency and Quality;  
 126 EU=European Union; HTD=health technology developer; JCA=Joint Clinical Assessment; MD=medical device;  
 127 PICO=Population, Intervention, Comparators, Outcomes.  
 128

129 In Figure 3-1 it is shown that there is only one timepoint specified (deadline for submission at the latest  
 130 45 days prior to the envisaged date of the opinion of the CHMP, for medicinal products), because it is

131 the only clearly defined in the HTA Regulation (Article 10(1)). Sufficient time should be allowed for the  
132 whole scoping process, including PICO survey and PICO consolidation.

### 133 **Population**

134 MS should identify the relevant population(s) for the assessment scope, based on the claimed  
135 therapeutic indication (i.e., indication applied for by the HTD in the submission to the EMA; in the case  
136 of medicinal products) or the intended use according to conformity assessment (in the case of MD) and  
137 their local healthcare situation. Relevant population(s) should be:

- 138 • the full patient population applied for by the HTD; and/or,
- 139 • subpopulation(s): defined as part of the full population.

140 The definition of the relevant population(s) should be as clear as possible and avoid ambiguity. During  
141 the PICO survey and in the JCA Committee for Scientific Consistency and Quality (CSCQ) meeting,  
142 definitions of the relevant populations should be discussed, where necessary. For example, in multiple  
143 sclerosis, the term 'relapsing multiple sclerosis' has been used to describe both relapsing remitting  
144 multiple sclerosis and patients with secondary progressive multiple sclerosis with superimposed  
145 relapses.<sup>2,3</sup> Therefore, MS should state in the wording of the patient population, the details of the covered  
146 patient population. The final definition is used throughout the scoping and assessment phases.

147 When appropriate, MS should define different subpopulations of the therapeutic indication, according to  
148 MS needs. Please see the glossary for the definition of the concept.

### 149 **Intervention**

150 The intervention in the PICO should reflect the intervention to be assessed and the indication for which  
151 the HTD applied in the regulatory submission dossier (in the case of medicinal products) or the intended  
152 use according to the conformity assessment (in the case of MD).

153 Intervention for medicinal products could be: monotherapy, combination therapy, with or without best  
154 supportive care, and so on. Typically, an assessment covers one intervention (a single medicinal product  
155 or a single MD or a specific combination of therapies). In some cases, a new intervention can be added  
156 to, instead of replacing, the standard of care (SoC). In these cases, the SoC comprises a background  
157 therapy, which could be not only a pharmacotherapy, but also a nonpharmaceutical intervention, such  
158 as psychotherapy, radiation, physiotherapy, or surgery. In rare occasions, this background therapy might  
159 differ from one MS to another. The MS should clarify whether this therapy should also be part of the  
160 treatment in the group receiving the comparator. In cases in which the MS highlights a specific  
161 background therapy in the PICO survey for the intervention, the assessor and co-assessor have to  
162 decide whether to include the background therapy in the intervention part of the PICO during the  
163 consolidation phase. Variations of the intervention, such as dose or timing of administration, are potential  
164 effect modifiers and, as such, do not require a separate PICO.

165 Characteristics of the MD should be specified listing the device configurations/variants. However,  
166 different versions of the MD could impact effectiveness, and this should be considered.

### 167 **Comparators**

168 MS are expected to define the comparators to be used with each patient population they have requested.  
169 Comparators can be licenced or not in the European Union.

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2 <https://www.eunetha.eu/wp-content/uploads/2020/03/PTJA08-siponimod-final-assessment-report-v2.0.pdf?x16454>

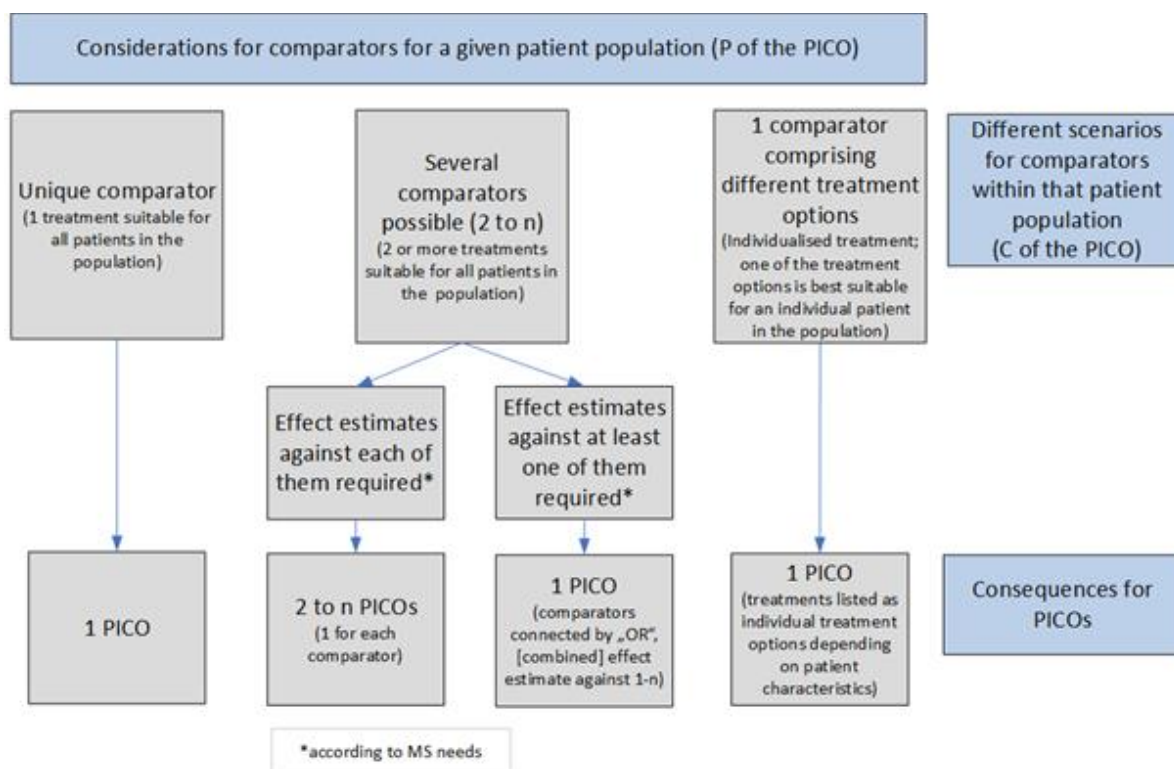
3 [https://www.ema.europa.eu/en/documents/scientific-guideline/guideline-clinical-investigation-medicinal-products-treatment-multiple-sclerosis\\_en-0.pdf](https://www.ema.europa.eu/en/documents/scientific-guideline/guideline-clinical-investigation-medicinal-products-treatment-multiple-sclerosis_en-0.pdf)

170 A SoC is an agreed standard treatment in a given health care system. As such, simply naming “SoC”  
171 as a comparator in the PICO survey is not sufficient. The components of SoC need to be specified for  
172 the given health care system to allow for the PICO consolidation.

173 Comparators are not limited to pharmacotherapy or MDs, but can as well include any other intervention,  
174 such as psychotherapy, radiation, physiotherapy, or surgery, or a combination of any of these.

175 If a comparator includes a specific background therapy, the MS should clarify whether this therapy  
176 should also be part of the treatment in the group receiving the intervention. A background therapy is a  
177 concurrent therapy that might be routinely applied, for example, as a SoC for a particular condition  
178 and/or disease.

179 The following figure gives an overview of potential comparator scenarios in a given patient population.



180

181 **Figure 3-2: Considerations for comparators**

182 There might be different scenarios for comparators within a given patient population.

183 If one unique comparator, which is suitable for all patients in a given population, is defined, a comparison  
184 (and thus effect estimates) against this one comparator is required. As shown in figure 3-2, this situation  
185 is reflected in one PICO.

186 If several comparators, which are all suitable for all patients in a given population, are defined, there can  
187 be two different situations.

188 1. A comparison (and thus, effect estimates) against each of these comparators is required.

189 2. A comparison (and thus, effect estimates) against at least one of these comparators is required.

190 In situation 1) a separate PICO is defined for each of the comparators. In situation 2) the different  
191 treatment options are combined in 1 comparator (treatments will be connected by “OR” to reflect the



192 situation) and 1 PICO comprising this comparator will be defined. The effect estimates could be provided  
193 against one or more of the treatments comprising this comparator. If more than one comparator is  
194 included, effect estimates should be provided for each comparator individually and aggregated for all  
195 comparators.

196 There might be situations in which a comparator, which is suitable for all patients in a given population,  
197 does not exist. This scenario will often be relevant for populations which are heterogeneous and do not  
198 have a well-defined evidence-based SoC. In this situation, treatments are often chosen from a  
199 compilation of different treatment options based on various patient characteristics, e.g. pre-treatment,  
200 the severity of the disease or the general health status. In this case, the comparator comprises these  
201 different treatment options and is called “individualised treatment”. One PICO against the individualised  
202 treatment comparator will be defined. In this scenario, a comparison (and thus effect estimates) against  
203 the individualised treatment comparator is required. Depending on MS needs, the treatment options  
204 defined in an individualised treatment comparator may or may not be conclusive. The acceptability of  
205 the comparative evidence will anyway be concluded at national level as part of the appraisal process.

206 In theory, a patient population for which an individualised treatment comparator is defined, could be split  
207 into several subpopulations. For each of these subpopulations, one of the treatments comprising the  
208 individualised treatment comparator would be the most appropriate treatment. However, the  
209 individualised treatment comparator is chosen when the population cannot be split into a limited number  
210 of meaningful subpopulations. A decision about when to use different subpopulations and when to  
211 combine patient groups in one population with an individualised treatment comparator will need to be  
212 made at the point of the definition of the assessment scope.

### 213 **Outcomes**

214 “Outcome” is any concept that can be used for estimating treatment effectiveness, such as mortality,  
215 remission, disease control, function, health-related quality of life (HRQoL), symptoms and safety.

216 MS are expected to define their needs by listing several outcomes. Detailed guidance on choosing and  
217 appropriately defining outcomes during the scoping process can be primarily found in the EUnetHTA 21  
218 D4.4 guideline “*Outcomes (Endpoints)*”. Other guidance was developed in Joint Action 2 (JA2) <sup>4,5,6,7,8</sup>.  
219 Given that JCA reports should not contain any value judgement or ranking of health outcomes, the listing  
220 of outcomes for the assessment scope also should be free of any such judgement or ranking.

### 221 **Additional information**

222 MS could use this section to provide additional information for the assessor/co-assessor.

223 MS could request to explore potential effect modifiers within the population (i.e., by defining subgroups  
224 (see definition above) e.g., age, sex, dose).

---

<sup>4</sup> EUnetHTA (2015): Endpoints used for Relative Effectiveness Assessment: Clinical Endpoints. [https://www.eunetha.eu/wp-content/uploads/2018/02/WP7-SG3-GL-clin\\_endpoints\\_amend2015.pdf](https://www.eunetha.eu/wp-content/uploads/2018/02/WP7-SG3-GL-clin_endpoints_amend2015.pdf)

<sup>5</sup> EUnetHTA (2015): Endpoints used for Relative Effectiveness Assessment: Composite Endpoints. [https://www.eunetha.eu/wp-content/uploads/2018/03/composite\\_endpoints.pdf](https://www.eunetha.eu/wp-content/uploads/2018/03/composite_endpoints.pdf)

<sup>6</sup> EUnetHTA (2015): Endpoints used in Relative Effectiveness Assessment: Surrogate Endpoints. [https://www.eunetha.eu/wp-content/uploads/2018/03/surrogate\\_endpoints.pdf](https://www.eunetha.eu/wp-content/uploads/2018/03/surrogate_endpoints.pdf)

<sup>7</sup> EUnetHTA (2015): Endpoints used for Relative Effectiveness Assessment: Health-related Quality of Life and Utility Measures. [https://www.eunetha.eu/wp-content/uploads/2018/01/Endpoints-used-for-Relative-Effectiveness-Assessment-Health-related-quality-of-life-and-utility-measures\\_Amended-JA1-Guideline\\_Final-Nov-2015.pdf](https://www.eunetha.eu/wp-content/uploads/2018/01/Endpoints-used-for-Relative-Effectiveness-Assessment-Health-related-quality-of-life-and-utility-measures_Amended-JA1-Guideline_Final-Nov-2015.pdf)

<sup>8</sup> EUnetHTA (2015): Endpoints used for Relative Effectiveness Assessment: Safety. [https://www.eunetha.eu/wp-content/uploads/2018/03/WP7-SG3-GL-safety\\_amend2015.pdf](https://www.eunetha.eu/wp-content/uploads/2018/03/WP7-SG3-GL-safety_amend2015.pdf)

225 Specific requests made for additional information will be discussed on a case-by-case basis during the  
226 CSCQ JCA meeting.

### 227 **3.2 PICO consolidation**

228 After the different needs from MS have been collected through the PICO survey, the PICO consolidation  
229 phase serves to converge the variety of needs into a set of PICOs that specify the scope of the JCA and  
230 the data requirements to the HTD (for medicinal products and MDs).

231 The objective of the consolidation is to ensure that MS needs are translated in the lowest number of  
232 PICOs possible. One PICO comprises one population, one intervention (or combination), one  
233 comparator (which can include more than one intervention), and at least one outcome. The steps are  
234 explained below and are illustrated with an example. The consolidated PICO for CSCQ Review  
235 Template v1.0 [see Appendix B] is to be completed by assessors/co-assessors.

236 The example is designed to capture theoretically possible situations that might occur during  
237 consolidation.

238 To achieve the fewest PICO(s) possible during the consolidation phase, the assessors/co-assessors  
239 might contact the MS to clarify open questions resulting from the PICO survey and discuss options for  
240 consolidation. Especially if a specific PICO is only requested by one MS, this discussion might clarify  
241 the possibility to cover the need of this MS by one of the other PICOs.

#### 242 **3.2.1 Step 1: List the requirements per MS**

243 For each MS, a table is populated with the requested population(s) per column. Each row indicates the  
244 requirements for the comparator(s). The first row concerning the comparators can be used to indicate  
245 whether the listed comparators are all required, or whether any one of those will suffice. The example  
246 is given for a medicinal product. For medical devices, the ‘full licensed indication’ can be read as ‘full  
247 approved intended use’.

#### 248 **Example (hypothetical)**

249 This example is chosen to illustrate a combination of scenarios (Table 3-1, Table 3-2, Table 3-3, Table  
250 3-4).

251 **Table 3-1: PICO of Member State 1**

Member State 1	
Population(s)	Full licensed indication
	Comparator(s) Could use any of / all required
	Comparator 1
	Comparator 2

252

253 Explanation: this MS expressed a requirement for the assessment regarding the Full licensed indication  
254 only, and would require for this population either a comparison with Comparator 1 or a comparison with  
255 Comparator 2. This is what is called, in ‘Comparators’ (Subsection 3.1), an ‘OR’ situation.

256 **Table 3-2: PICO of Member State 2**

Member State 2			
Population(s)	Full licensed indication	Subpopulation A	Subpopulation B
	Comparator(s) Could use any of / all required	Comparator(s) Could use any of / all required	Comparator(s) Could use any of / all required
	Comparator 1	Comparator 1	
	Comparator 2		
	Comparator 3	Comparator 3	Comparator 3

257

258 Explanation: this MS expressed a requirement for the assessment regarding the Full licensed indication  
259 and Subpopulation A AND B. For the Full licensed indication, the MS would require a comparison with  
260 either Comparator 1 or Comparator 2 or Comparator 3. For the Subpopulation A, the MS would require  
261 a comparison with either Comparator 1 or Comparator 3. For Subpopulation B, a comparison with  
262 Comparator 3 would be required.

263 **Table 3-3: PICO of Member State 3**

Member State 3		
Population(s)	Subpopulation A	Subpopulation B
	Comparator(s) Could use any of / all required	Comparator(s) Could use any of / all required
	Comparator 1	
	Comparator 2	Comparator 2
		Comparator 3

264

265 Explanation: this MS expressed a requirement for the assessment regarding Subpopulation A and  
266 Subpopulation B (and not the Full licensed indication). For the Subpopulation A, the MS would require  
267 a comparison with either Comparator 1 or Comparator 2. For Subpopulation B, it would require a  
268 comparison with either Comparator 2 or Comparator 3.

269 **Table 3-4: PICO of Member State 4**

Member State 4	
Population(s)	Full licensed indication
	Comparator(s) Could use any of / all required
	Comparator 3
	Comparator 4

270

271 Explanation: this MS expressed a requirement for the assessment regarding the Full licensed indication  
272 only and would require for this population a comparison with Comparator 3 as well as a comparison with  
273 Comparator 4. This is what is called, in 'Comparators' (Subsection 3.1), an 'AND' situation.

274 **3.2.2 Step 2: Create tables per population and juxtapose MS requirements**

275 Set apart the required population(s) in separate tables and list in the columns all MS that require this  
276 population.

277 Add in the rows below their required comparator(s). Highlight whether the MS need either all of those or  
278 any of those comparator(s).

279 The first table has, by default, the (expected) licensed indication as the population.

280 **Example (based on Tables 3.1–3.4)**

281 **Table 3-5: List of submitted comparators for the full indication (separated by Member State)**

Full licensed indication		
Member State 1	Member State 2	Member State 4
Comparator(s) Could use any of / all required	Comparator(s) Could use any of / all required	Comparator(s) Could use any of / all required
Comparator 1	Comparator 1	
Comparator 2	Comparator 2	
	Comparator 3	Comparator 3
		Comparator 4

282 **Table 3-6: List of submitted comparators for Subpopulation A (separated by Member State)**

Subpopulation A	
Member State 2	Member State 3
Comparator(s) Could use any of /all required	Comparator(s) Could use any of /all required
Comparator 1	Comparator 1
	Comparator 2
Comparator 3	

283

284 **Table 3-7: List of submitted comparators for Subpopulation B (separated by Member State)**

Subpopulation B	
Member State 2	Member State 3
Comparator(s) Could use any of /all required	Comparator(s) Could use any of /all required
	Comparator 2
Comparator 3	Comparator 3

285

286 **3.2.3 Step 3: Select, per population, the required comparator(s) and assign PICO(s)**

287 The goal here is to select the lowest number of comparators needed to fulfil MS requirements.

- 288 a) One comparator: if a MS requires one comparator for a given population, this comparator is  
289 selected. This is done for all MS. Every different comparator is assigned a separate PICO.
- 290 b) More than one required comparator and the 'AND' scenario: for every additional required  
291 comparator, a separate PICO is assigned.
- 292 c) Select 'OR' comparators: if one or more MS require one comparator out of several options, check  
293 whether at least one of these comparators is included under steps a and b (see example below).  
294 If this is not the case, the list of comparators is crosschecked for all remaining MS for which this  
295 occurs. The lowest number of comparators needed to satisfy the requirements for MS will  
296 determine which comparators will be selected. If no preference can be given, this will be  
297 highlighted. In this case, the comparator definition will include the alternative options. This means  
298 that the HTD can choose the most relevant comparator from the options presented. Again, a  
299 separate PICO for every additional comparator scenario (in this case with alternative options) is  
300 assigned.

301

302 Example

303 *Subpopulation B*

304 Step a: One comparator

305 Only MS 2 requires only one comparator for a particular population; it requires Comparator 3 for  
306 Subpopulation B. This results in one PICO. With the inclusion of Comparator 3, the requirements of MS  
307 3 for Subpopulation B are also satisfied. The needs of MS with regard to Subpopulation B are fulfilled  
308 with the selection of Comparator 3. Therefore, a PICO with Comparator 2 is not necessary and will not  
309 be included.

310 *Full licensed indication*

311 Step b: More than one required comparator and the 'AND' scenario

312 MS 4 applies the AND scenario and requires two comparators (3 and 4 are both required). This results  
313 in two PICOs. MS 2 could use any of comparators 1, or, 2 or 3. Hence, with the selection of Comparator  
314 3 to fulfil the needs of MS4, the needs of MS 2 are also fulfilled. However, with the selection of  
315 comparators 3 and 4, the needs of MS 1 are not fulfilled because this MS needs Comparator 1 or 2.  
316 Therefore, an additional PICO with either of these two comparators 1 or 2 needs to be constructed. For  
317 MS 3, the Full licensed indication is not requested.

318 Given that there is no preference for either a comparison with Comparator 1 or a comparison with  
319 Comparator 2 (MS 1 and MS 2 could both use any of those two), the HTD can decide which of those  
320 two comparators will be included in the submission.

321 Therefore, in total, this population requires three PICO: two PICO: that cover the needs for MS 4  
322 (comparators 3 and 4) and one PICO that covers the needs of MS 1. The needs for MS 2 are included  
323 in those PICO.

324 *Subpopulation A*

325 Step c: Select 'OR' comparators

326 With Comparator 1, the requirements of both MS 2 and 3 are satisfied. This requires one PICO. In this  
327 situation, Comparator 2 and Comparator 3 are omitted during the consolidation process, unless one of  
328 the MS objects.

### 329 3.2.4 Step 4: Populate a PICO table with the results of step 3

330 1) Each PICO is placed in a separate column. The required comparators are placed in the row below.

331 2) The required outcomes are added in the row below the comparators. For this, the guidelines on  
332 the selection of outcomes should be followed.<sup>9,10,11,12,13</sup> In principle, all outcomes should be  
333 included for all PICO.

334 **Error! Reference source not found.**3-3 summarises the four steps of the PICO consolidation process.  
335 Applying these four steps should result in the smallest possible number of PICO: that meet the needs of  
336 MS (called the MIN-MAX principle in the PICO concept paper). After applying these four steps, whether  
337 the needs of MS are indeed met should be checked. In the example, crosschecking the PICO table below  
338 (Table 3.8) with the hypothetical PICO survey results as populated in step 1 shows that this is indeed the  
339 case. The PICO table is the end product of the PICO consolidation and can be used for further reference  
340 in the scoping and assessment process.

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<sup>9</sup> EUnetHTA (2015): Endpoints used for Relative Effectiveness Assessment: Clinical Endpoints. [https://www.eunetha.eu/wp-content/uploads/2018/02/WP7-SG3-GL-clin\\_endpoints\\_amend2015.pdf](https://www.eunetha.eu/wp-content/uploads/2018/02/WP7-SG3-GL-clin_endpoints_amend2015.pdf)

<sup>10</sup> EUnetHTA (2015): Endpoints used for Relative Effectiveness Assessment: Composite Endpoints. [https://www.eunetha.eu/wp-content/uploads/2018/03/composite\\_endpoints.pdf](https://www.eunetha.eu/wp-content/uploads/2018/03/composite_endpoints.pdf)

<sup>11</sup> EUnetHTA (2015): Endpoints used in Relative Effectiveness Assessment: Surrogate Endpoints. [https://www.eunetha.eu/wp-content/uploads/2018/03/surrogate\\_endpoints.pdf](https://www.eunetha.eu/wp-content/uploads/2018/03/surrogate_endpoints.pdf)

<sup>12</sup> EUnetHTA (2015): Endpoints used for Relative Effectiveness Assessment: Health-related Quality of Life and Utility Measures. [https://www.eunetha.eu/wp-content/uploads/2018/01/Endpoints-used-for-Relative-Effectiveness-Assessment-Health-related-quality-of-life-and-utility-measures\\_Amended-JA1-Guideline\\_Final-Nov-2015.pdf](https://www.eunetha.eu/wp-content/uploads/2018/01/Endpoints-used-for-Relative-Effectiveness-Assessment-Health-related-quality-of-life-and-utility-measures_Amended-JA1-Guideline_Final-Nov-2015.pdf)

<sup>13</sup> EUnetHTA (2015): Endpoints used for Relative Effectiveness Assessment: Safety. [https://www.eunetha.eu/wp-content/uploads/2018/03/WP7-SG3-GL-safety\\_amend2015.pdf](https://www.eunetha.eu/wp-content/uploads/2018/03/WP7-SG3-GL-safety_amend2015.pdf)



341

342 **Figure 3-3: The four steps of the PICO consolidation process**

343

344

345 **Example (based on Tables 3.1–3.7)**

346 **Table 3-8: Consolidated PICOs based on Member State requests**

	PICO 1	PICO 2	PICO 3	PICO 4	PICO 5
P	Full licensed indication	Full licensed indication	Full licensed indication	Subpopulation A	Subpopulation B
C	Comparator 1 OR Comparator 2 <sup>14</sup>	Comparator 3	Comparator 4	Comparator 1	Comparator 3
O	All outcomes	All outcomes	All outcomes	All outcomes	All outcomes

347

### 348 **3.3 PICO validation: CSCQ JCA meeting**

349 PICOs resulting from the PICO survey as consolidated by the assessor and co-assessor are presented  
 350 to the CSCQ JCA meeting. This presentation could take place during a programmed JCA CSCQ  
 351 meeting or during a dedicated meeting, if timelines dictate. During this meeting, the assessor and co-  
 352 assessor present the PICOs, including results of the survey, consolidation tables, and the proposal for  
 353 consolidated PICOs. Cases in which a PICO was requested by one MS only will be discussed. CSCQ  
 354 members as well as patients and clinical experts are invited to comment on the consolidated PICOs.  
 355 However, a consensus should be reached that respects MS requirements because this requirement is  
 356 determined by Article 8(6). CSCQ members should validate the final PICOs. The Final Consolidated  
 357 PICO Template v1.0 should be completed with the validated PICOs and forwarded to the HTD.

### 358 **3.4 Risk of labelling/CE marking indication(s) change**

359 Given the timelines of the JCA, the scoping process has to be completed before Committee for Medicinal  
 360 Products for Human Use (CHMP) opinion/Conformité Européenne (CE) marking indication(s). This  
 361 means that the anticipated population might change after the PICOs have been postulated because of  
 362 the regulatory process.

363 If CHMP opinion/CE marking recommends a different indication/intended use from the one initially  
 364 applied for, an update of the PICOs is expected and the evaluation process will be delayed. A solution  
 365 is needed to account for the risk of labelling change.

366 In the future HTAR, cooperation between the assessor/co-assessor and the corresponding regulatory  
 367 team, according to Article 15(1), is planned and it should be explored whether this could contribute to a  
 368 solution. In EUnetHTA 21, similar cooperation, although encouraged, could be more difficult to achieve  
 369 because of the lack of a legal framework with the European Medicines Agency (EMA) and the Medical  
 370 Device Coordination Group (MDCG).

371

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<sup>14</sup> The HTD can decide which of those two will be included in the submission.

372 **4 INFORMATION FOR THE HTD**

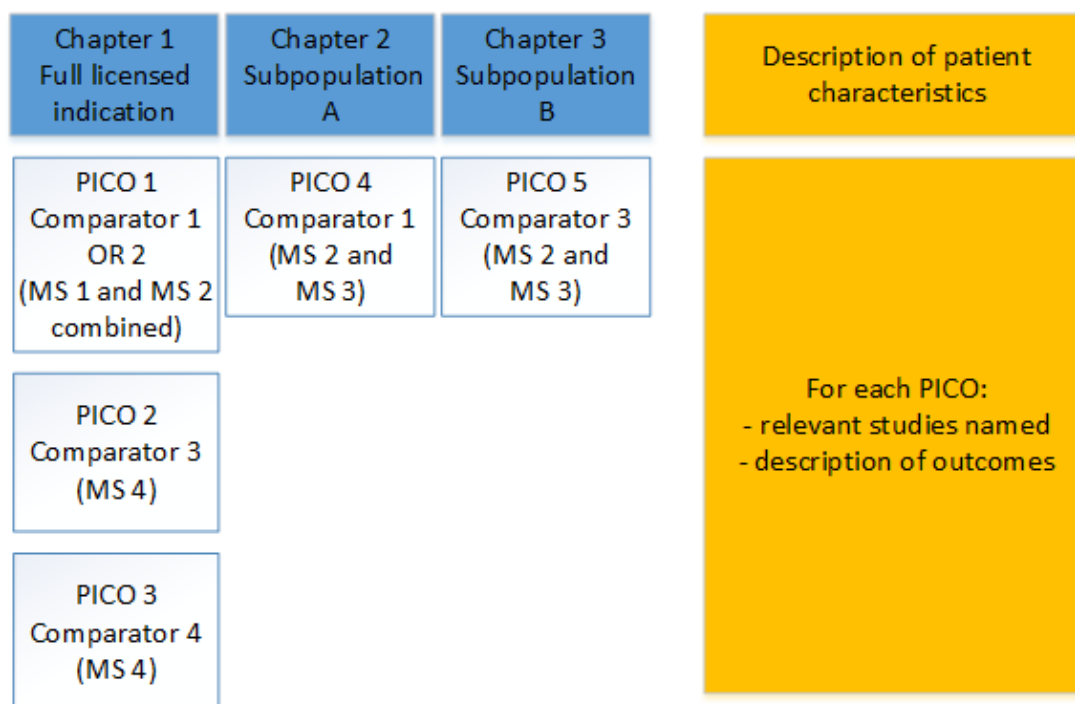
373 Once PICO consolidation is completed and the scope of the assessment is validated by the CSCQ, the  
374 HTD is informed of the scope and the PICO(s) included. This scope defines the data request for the  
375 assessment. The HTA submission dossier should cover this data request.

376



377 **5 DATA PRESENTATION IN THE HTA REPORT CONSIDERING THE PICO(S)**

378 The PICO consolidation as explained in Subsection 3.2 has consequences for data presentation in the  
 379 JCA. From the above, it follows that more than one PICO per population can be created in cases  
 380 where there is more than one comparator brought forward by MS. For the JCA, all PICOs relevant for  
 381 a single population can be clustered into one chapter in the report. Each relevant comparator is then  
 382 assessed sequentially. Thus, the JCA comprises different chapters of assessments structured by  
 383 population. In case of the situation as illustrated in Example 1 (above), this would result in three  
 384 chapters: Chapter 1, Full licensed indication (medicinal product) or full approved intended use  
 385 (medical device); Chapter 2, Subpopulation A; and Chapter 3, Subpopulation B, as illustrated by the  
 386 example in Figure 5-1.



387  
 388 **Figure 5-1: Data presentation according to PICO(s).**

389 MS, Member State; PICO=Population, Intervention, Comparators, Outcomes.  
 390

391 Each population or subpopulation then constitutes a chapter in the report, and each comparator requires  
 392 a subsection thereof. Each chapter will start with a description of the population it covers and each  
 393 subsection with the comparator it covers. For the example as presented in chapter 3 of this guideline,  
 394 the report will constitute the following three assessment chapters: Full licensed indication (medicinal  
 395 product) or full approved intended use (medical device); Subpopulation A; and Subpopulation B. Note  
 396 that only the first chapter has three subsections because it encloses three different comparators  
 397 (Comparator 3, Comparator 4, and Comparator 1 OR 2). In Chapter 3 of the example, Comparator 3 is  
 398 used once again; thus, the description of this comparator can be copied from, or a reference can be  
 399 made to, the first chapter.

400 Further consequences are that a situation might arise in which different PICOs use the same studies as  
 401 a basis. To prevent duplication throughout the JCA, description of (elements of) studies that would  
 402 otherwise be repeated again in each chapter will be described at the beginning of the result section,  
 403 which should also include results of information retrieval and characteristics of the included studies  
 404 (Annexe I, HTAR). In addition, the intervention is a common element to each of the assessment  
 405 chapters; thus, again to prevent duplication across chapters, a chapter occurring before the assessment  
 406 chapters can describe (common elements of) the intervention. Further detailing of the report structure  
 407 and data presentation will form part of the EUnetHTA 21 template.

408 **6 IMPACT OF THE STATISTICAL ANALYSIS PLAN OF THE ORIGINAL STUDY**  
409 **VERSUS THE PICO(S) ON THE EVIDENCE ASSESSMENT IN THE HTA**  
410 **REPORT**

411 As described above, the PICOs are developed based on the national policy questions to be answered  
412 by the assessment. As such, they are not driven by the available studies. Nevertheless, in many cases,  
413 the studies available for the assessment might cover a specific PICO. However, there might also be  
414 cases in which the available studies do not reflect a given PICO. For example, the specific PICO might  
415 comprise only a subpopulation of the population included in a study available for the assessment.

416 To meet the data requirements for an assessment according to a specific PICO, the available studies  
417 might need to be reanalysed or evaluated for suitability for indirect comparisons to provide a data set  
418 suitable for the assessment. This analysis will deviate from the original study planning but is required  
419 for the HTA by the definition of the PICO. This deviation should be clearly mentioned. The re-analyses  
420 will be provided by the HTD in the submission dossier.

421 In the assessment report, it should be clear which data sets are from an analysis according to the original  
422 study planning and which are based on reanalyses resulting from PICO requests. In any case, the  
423 original study analyses will be included in the dossier.

424

425 **7 FURTHER RELEVANT DOCUMENTS**

- 426 • PICO concept paper (<https://www.eunethta.eu/pico/>)

427

## 428 **8 CONSIDERATIONS FOR THE HTA REGULATION**

429 The HTAR serves as the basis for this deliverable. Given the general framework of EUnetHTA 21, this  
430 guideline deviates in some steps from the processes defined in the HTAR, in particular:

- 431 • The cooperation between assessor/co-assessor and the corresponding regulatory team,  
432 according to Article 15(1) of the HTAR could not be explored during EUnetHTA 21;
- 433 • Some steps of the processes in the HTAR (Articles 7 and 10) could not be introduced, such as  
434 the coordination group, corresponding subgroups, or the role of the European Commission. Those  
435 will be defined later under the HTAR. This could affect, for example, the starting point of a PICO  
436 survey for MD;
- 437 • Much of the content of this document is applicable to both EUnetHTA 21 and the HTAR. Where  
438 relevant, the differences will be specified. However, the scope of this guideline is limited to the  
439 relevant functions in EUnetHTA 21 only, given that the task of the corresponding committees might  
440 differ.

441 Input from patient organisations or clinical experts should be considered in the future in relation to  
442 implementing the HTAR.

### 443 **8.1 PICO consolidation working group (PC-WG)**

444 To facilitate capacity building, optimise resources and ensure consistency in the process and outcome  
445 of PICO consolidation, EUnetHTA 21 recommends the JCA subgroup assess the value, relevance and  
446 feasibility of establishing a dedicated working group (WG) on PICO. This working group should be  
447 involved in checking the assessors' PICO proposal for clarity and consistency with previous PICO  
448 surveys. Further, the PC-WG should liaise closely with the authors of the JCA during the PICO  
449 consolidation process.

450 Decision making on final consolidation lies with the JCA SG, as they validate the final consolidated  
451 PICO(s). In case the PC-WG and the assessment team have remaining discussion points, the JCA SG  
452 should be involved in finalizing the discussion.

453 EUnetHTA 21 further recommends the PC-WG is centrally coordinated, but this is not yet included in  
454 the process description.

455 Please see figure 8-1 for the proposed work flow for this PC-WG.

456

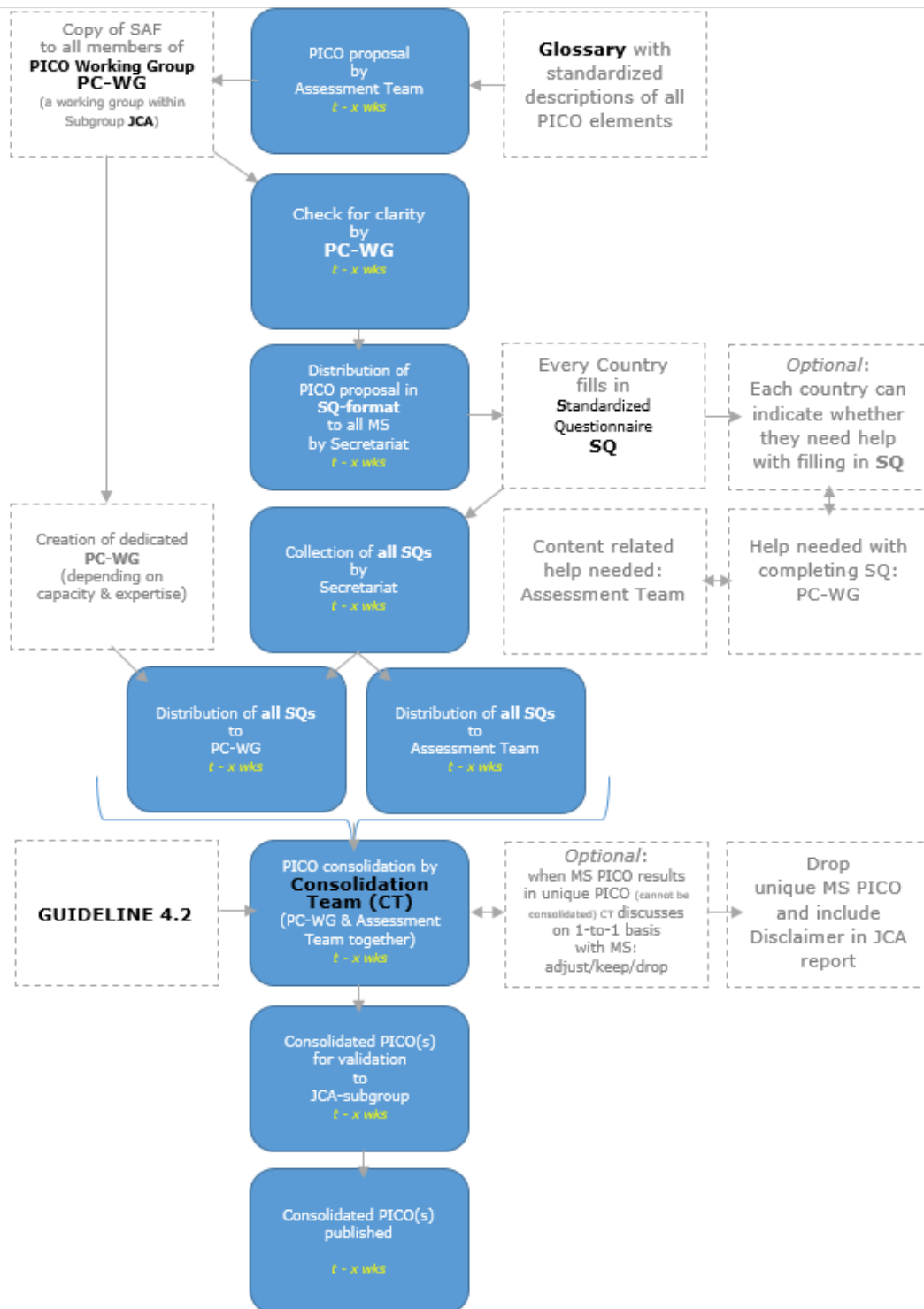
### 457 **8.2 Bilateral exchanges with the PICO survey respondents**

458 MS can reach out to the PC-WG in case they have questions about the PICO survey completion. The  
459 PC-WG can reach out to the assessment team, in case the questions are content related.

460 It is important that the authors of the JCA and the recommended PC-WG liaise directly with individual  
461 PICO survey respondents, to clarify specific aspects of their submitted PICO. As shown in figure 8-1, it  
462 is recommended such bilateral interactions take place prior to a CSCQ (or under the HTAR it is the JCA  
463 sub group) validation meeting. These bilateral meetings can also be used to discuss possibilities to  
464 further consolidate national requests.

465

466



467  
468 **Figure 8-1: PICO work flow**

469  
470  
471

472 **8.3 Other recommendations**

473

474 EUnetHTA 21 recommends producing a guideline explaining which data could be used to answer to  
475 a PICO. This guideline should detail the different PICO situations described in this current document.  
476 Such a guideline would be helpful to achieve completeness of dossier submission.

477 **Appendix A - PICO SURVEY FORM**

478 This is the PICO survey form for (intervention) in an (intended indication). This PICO survey provides the opportunity for each MS to identify and provide their  
479 national needs based on the assessors' PICO(s) proposal. Input provided during the PICO survey will be considered as the official standpoint of responding  
480 MS. Each MS has the full responsibility for its internal process (including the involvement of patients and clinical experts) to achieve this official standpoint. MS  
481 are expected to answer within 2 weeks.

482 **Medicinal products JCA/high-risk medical device JCA PICO form**

483 MS need to fill in each PICO parameter for each PICO(s) (in the case of multiple PICO(s)) or select an option from the assessors' proposal.

Parameter	PICO 1 - Assessors' proposal	Comment of MS to Assessors' proposal	Other PICO(s) (if needed)
		<i>Agree, if MS- PICO is aligned with assessors' proposal</i>	<i>In case of multiple PICO(s), separate columns should be made for the different aspects.  If PICO(s) are aligned with regard to some parameters (e.g., no differences between the PICO(s) on outcomes), the cells should be merged between adjacent identical columns.</i>
<b>Population</b>	Relevant population for the assessment scope [see 'Population' (Subsection 3.1.5)]		
<b>Intervention</b>	Intervention to be assessed [see 'Intervention' (Subsection 3.1.5)]		
<b>Comparator(s)</b>	Expected comparators. [see 'Comparators' (Subsection 3.1.5)]		
<b>Outcomes</b>	Expected outcome (effectiveness, safety, quality of life) [see 'Outcomes' (Subsection 3.1.5)]		
<b>Additional information</b>	See 'Additional information' (Subsection 3.1)		

484

485

486

487

488

489 **Appendix B – ADDITIONAL DOCUMENTS**

490 The PICO Background Template Document v1.0 can be found [here](#).

491 The Consolidated PICO for CSCQ Review Template v1.0 can be found [here](#).

492 The Final Consolidated PICO Template v1.0 can be found [here](#).