

WP2 / WP6 – Core Outcome Set Project DELPHI - Core Outcome Set (COS) definition in

Chronic Myeloid Leukemia (CML)

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INDEX

- A. INTRODUCTION
- B. PROJECT GOALS
- C. METHODS
- D. DELPHI PROCESS
- E. RESULTS AND ANALYSIS
- F. STRENGTH & LIMITATIONS
- G. OUTLOOK

ANNEX 1 PRELIMINARY OUTCOME LIST FOR ALL ANNEX 2 REFERENCES





A. INTRODUCTION

The HARMONY Alliance is a public-private European Network established in 2017, which includes 53 partners and 43 associated members from 17 countries, including 9 pharmaceutical companies and 9 Patient Umbrella Organizations. One of HARMONY's objectives is to use Big Data to improve understanding and treatment of hematological malignancies (HM) (1). HARMONY Plus is a new public-private partnership within the HARMONY Alliance, launched at 6 October 2020. One of Harmony Plus objectives is to expand the scope of the HARMONY Alliance to cover remaining HM not included in the HARMONY project (2). Just like the previous HARMONY project one work package within HARMONY Plus is focused on defining outcomes sets for further HMs and one outcome set applicable for all HMs. In accordance, this study will be performed to define the core outcome set (COS) in Chronic Myeloid Leukemia (CML), one out of four hematological malignancies predefined in HARMONY Plus.

CML is a clonal bone marrow stem cell disorder, with an increased and unregulated growth of myeloid cells in the bone marrow. CML appears more commonly in elderly adults. Diagnosis is based on cytogenetic and molecular analyses of blood cells. CML is characterized by a balanced genetic translocation, t(9;22)(q34;q11.2), involving a fusion of the Abelson gene (ABL1) from chromosome 9q34 with the breakpoint cluster region (BCR) gene on chromosome 22q11.2. This rearrangement is known as the Philadelphia chromosome. The molecular consequence of this translocation is the generation of a BCR-ABL1 fusion oncogene, which in turn translates into a BCR-ABL1 oncoprotein (3). These findings form the basis for first-line treatment – using tyrosin-kinase inhibitors (TKIs) (4). After normal survival has been achieved in most patients with chronic myeloid leukemia (CML), a new goal for treating CML is survival at good quality of life, with treatment discontinuation in sustained deep molecular response (DMR; MR⁴ or deeper) and treatment-free remission (TFR) (5-7). In addition to these new outcomes resulting from the therapy successes, more and more long-term outcomes on quality of life are coming into focus.

But generally valid recommendations of outcomes that should be measured are still missing. Unfortunately, the ability to compare clinical trials is limited due to differences in their measured outcomes. This lack of standardization relates to the current lack of a COS that can be utilized to guide outcomes selection and harmonization in CML in current and future trials. For example, measurement of long-term side effects and their influence on the patients' quality of life has not yet been assessed in most of clinical trials.

A COS is a minimum set of outcomes developed by consensus, and a minimum set of outcomes is a reference point and provides the minimum outcomes that should be collected in further clinical trials on a given condition. It is common to develop a COS by consensus by using multi-stakeholder consensus-based Delphi methodology. Use of a COS improves the comparability of clinical trials or other research in real world settings, improves consistency of reporting, reduces selective reporting bias and ensures that appropriate outcomes valued by a range of stakeholders are measured. COS can be incorporated into clinical guidelines and improve the clinical practice and patient outcomes and management.

Key stakeholders who are dedicated to provide their expert feedback are selected based on their skills and experience relevant to the disease or project. The stakeholders include health service users, health service practitioners, researchers, regulators, drug developers, patients and patient advocates.



Participants of all stakeholder groups were in particular recruited from members of the HARMONY work packages, but also participants outside the HARMONY Alliance are welcome to take part of the Delphi survey within their stakeholder group.

In order to ensure that the defined COS is acceptable for each stakeholder group it is important to include as many stakeholders' groups as possible in particular patients and patient advocates to increase the influence of patient groups for the definition of outcomes an additional category is included in the analysis of the Delphi survey, called "patient important". This category will be used in the final analysis to mark a specific outcome as patient important. It is recommended to discuss these specific outcomes separately in the final consensus meeting.

B. PROJECT GOALS

The aim of this project is therefore to define a COS for CML agreed by consensus of all stakeholder groups and to define standardized outcomes to be measured in future clinical trials and observational studies throughout Europe.

The protocol has been written following the COS-STAP recommendations (8).

C. METHODS

The development of the COS will follow COMET recommendations from the international COS-STAD study (8,9).

To achieve consensus from different stakeholder groups the Delphi method will be used. The Delphi instrument used is an online tool, DelphiManager, provided by the COMET Initiative (10). A more detailed description of the methodology can be found in section D. Recruitment of participants mainly takes place from members of the HARMONY Alliance.

Participants

1. Patients

In this Delphi survey patients equal or older than 18 years with CML can participate. Different subtypes of CML are equally included, regardless of previous treatments including stem cell transplantation. Patients treated as outpatients are included as well as patients treated in hospital settings. Due to the use of English for the Delphi survey, participation is limited to patients understanding English.

2. Clinicians and Clinical researchers

Every clinician within or outside the HARMONY Alliance with experiences in CML can take part in the survey.

3. Drug developers



Participants have been recruited from stakeholder organizations that are members of HARMONY Plus, including European Federation of Pharmaceutical Industries and Associations (EFPIA) member companies.

4. Regulators

Recruitment of participants will be performed within the HARMONY Alliance with support of Work Package 6.

Data protection

The personal data of participants (name, home country and email address) will be stored only for the duration of the survey on a secure server provided by the DelphiManager. After completion of the survey all data will be deleted.

By registering, all participants provide consent to the terms of the Delphi survey and they agree to the use of their data in the way described in the survey protocol.



Selection of the outcome list for CML

The empirical basis for identifying a list of preliminary CML outcomes for the Delphi study so far has been threefold a two-step process:

First – A literature research was conducted in the COMET database to get an overview of the outcomes already used in existing clinical trials (11). The primary outcomes list was generated by extracting outcomes from the published literature (3-6).

Second – in order to include the patients' perspective, patient advocates and people who have or have had CML were invited to complement the preliminary list of outcomes by including additional outcomes and revise the list in accordance with their comments. In addition a specific literature research for patient-reported outcomes in CML-patients was performed and included in the preliminary list (12).

D. DELPHI PROCESS

The preliminary CML outcome list created after the process described above (Annex 1), will be used in the Delphi survey in a representative pool of stakeholders to agree in a pre-defined and iterative process on a COS for CML.

The Delphi survey will include two rounds. In each round, the stakeholders will be asked to rate the importance of each outcome based on their personal experiences. Each outcome will be ranked into three categories (1-3 "not important", 4-6 "important but not critical" and 7-9 "critical") using a Likert scale of 1 to 9. After the completion of the first round of the Delphi survey no new participant will be invited.

Based on the experience of the previous harmony surveys, the surveys planned now will be held as a so-called "hackathon".

For this purpose, a virtual meeting will take place on at least two days - this is also due to the current pandemic situation.

At these meetings, the surveys will be conducted in parallel by all participants. A major advantage of this is that any questions that arise can be asked and answered directly and, if necessary, support can be offered.

Within the questionnaire, outcomes will be grouped into domains so similar or related outcomes can be viewed and rated together. Each outcome will be described in plain language. Plain language descriptions are used from lists provided by patient advocates and also from native speakers with medical background.

When registering, participants will be asked which stakeholder group he/she belongs to. Once the individual participant has completed the first ranking round, he/she will also be able to provide additional feedback, by suggesting additional outcome parameters, which might be added within the



subsequent Delphi rounds. This additional outcome will be added to the following Delphi rounds when two or more participants proposed this outcome to be included.

After each round, all participants will be provided with their own answers and an anonymized summary of the other participants' answers across all different stakeholder groups, in terms of the percentage scoring each of 1 to 9 on a particular outcome. Thereby feedback is provided from all stakeholder groups separately.

This allows the participants to revise their answers during the next round of the Delphi survey by taking the previous round's results into account. No outcome will be dropped out, so the participants can revise their initial ranking. The range of answers should decrease from round to round and a consensus opinion result, a core outcome set is defined. The process is stopped after pre-defined consensus criteria as described below.

After the final round a face-to-face consensus meeting will take place to finally discuss the results and to reaffirm the defined COS.

It will be important that as many participants as possible complete every round of the Delphi survey to ensure robust results of high representativeness.

The rate of non-response after the Delphi rounds, so called attrition is often highly variable. The attrition rate described over different Delphi studies varies from 0% to 20%. There is no recommendation regarding attrition rates, however an acceptable response rate would be 80%. To increase the response rates personalized email reminders will be sent out.

Attrition bias may occur if participants give no response to subsequent rounds of survey. Little evidence is available regarding the extent to which attrition bias influences the Delphi result.



E. RESULTS AND ANALYSIS

To reduce potential bias in the interpretation of the results a clear definition of consensus is crucial. There are three categories of consensus:

1. Consensus in

70 % or more respondents over all the respondents (clinicians, EFPIA members, regulators/HTA, patients and patient advocates) scored the outcome as critically important (7-9) AND 15% or fewer rate the outcome as limited important (1-3)

2. Consensus out

70 % or more of all the respondents (clinicians, EFPIA members, regulators/HTA, patients and patient advocates) scored the outcome as limited important (1-3) AND 15 % or fewer rate the outcome as critically important (7-9)

3. No consensus

Outcomes that do not achieve a consensus through the several rounds in the Delphi survey.

After completing the last Delphi round, each participant will be asked about willingness to participate in a final meeting, representatives from all stakeholder groups will be part of this meeting.

The analysis of the Delphi study described in this protocol will use descriptive statistics. The results for each of the Delphi rounds, for each outcome and for each stakeholder group, will be presented in frequency tables. Quantitative analysis of the Delphi survey include calculations of i) percentage of panel's response rates and ii) percentages of responses in each of the three importance categories (1-3:" not important", 4-6: "important but not critical" and 7-9: "critical" based on 9-point Likert scale) for each outcome.

The data will be also displayed graphically, e.g., using histograms, for each stakeholder group and for each outcome. The plots will be reproduced for each round to further visualize the stability of the panel's opinion.

The analysis of the Delphi study will be performed using the R statistical software version 3.5.2. As mentioned above the exploratory analysis of the outcomes considered as important for patients will be analyzed as following: The median Likert score for the patient group at the end of each round will be calculated and those outcomes achieving a median of greater or equal to 7 (≥7) will be considered as important to patients.



F. STRENGTH & LIMITATIONS

As mentioned above different stakeholder groups take part in the Delphi survey. To ensure the impact of the highly important patient involvement in this process, a further specific category was added, called "patient important". Thereby outcomes with a special interest for patients can be marked and emphasized in analysis.

The language used in the Delphi survey is English. This limits the group of people to participate in the Delphi to persons who do speak English. This might introduce a bias with regard to the countries participating in the Delphi, with e.g., a potential overrepresentation of English-speaking countries. While it was considered to translate the questionnaires into other European languages, this could pose additional problems and might introduce a different bias, e.g., depending on quality of the translations or depending on the number of participants per language, to name only a few.

To date, there is no recommendation found in literature regarding the number of participants to include in a Delphi survey. For certain stakeholder groups, for example for regulators it may be hard to recruit a large number of participants, which may lead to an imbalance of group size. With providing summarized results for each stakeholder group separately, the effect of inequitable distribution of group size is minimized, as described by COMET (13).

G. OUTLOOK

The anticipated way of developing the COS ensures that clinicians, industry, health authorities, as well as patients and patient advocates are involved in each stage of the development. In addition, the Delphi survey helps to make sure that the COS represents the priorities of all stakeholders. Ultimately, utilization of the COS will improve the relevance of trial endpoints to all stakeholders. Furthermore, it will increase the capacity for data synthesis between different trials.

In parallel to the completion of the Delphi survey in CML, it is intended to start Delphi surveys to define a COS for the remaining hematological malignancies included in HARMONY Plus.

Finally, based on the results of the COS definition for the hematological malignancies included in HARMONY and HARMONY Plus a standardized COS applicable for all HMs will be created.



ANNEX 1 | PRELIMINARY OUTCOME LIST FOR CML

Name	HelpText	DomainName	DomainName - simplified
Pain	When your body hurts, including aching joints, which may vary in intensity from mild discomfort to pain that limits activities of daily life, limits self care and/or requires medication or hospitalisation. Medication may be necessary	Patient reported concerns/outcomes (PRO) / Health related Quality of Life - general, non- medical	patient reported outcomes - PRO
Diarrhea / Constipation	Passing looser stools (poo), passing stools more often than is normal for you or problems with passing stools	Patient reported concerns/outcomes (PRO) / Health related Quality of Life - general, non- medical	patient reported outcomes - PRO
Nausea	Feeling or being sick, which may lead to impact on intake of food and/or fluids and/or normal activities	Patient reported concerns/outcomes (PRO) / Health related Quality of Life - general, non- medical	patient reported outcomes - PRO
Changes in taste and smell	Loss of the senses of smell and taste, including the reduced ability to smell or taste, for instance, sweet, sour, bitter or salty	Patient reported concerns/outcomes (PRO) / Health related Quality of Life - general, non- medical	patient reported outcomes - PRO
Anorexia	Loss of appetite, which may lead to weight loss and malnutrition	Patient reported concerns/outcomes (PRO) / Health related Quality of Life - general, non- medical	patient reported outcomes - PRO
Fatigue	Extreme or persistant tiredness that's not related to recent activity	Patient reported concerns/outcomes (PRO) / Health related Quality of Life - general, non- medical	patient reported outcomes - PRO
Shortness of breath (Dyspnoea)	Shortness of breath or breathing problems, which may happen at rest and may limit activities of	Patient reported concerns/outcomes (PRO) / Health related Quality of	patient reported outcomes - PRO



	daily living or self care, and may require treatment	Life - general, non- medical	
Change in sexual function	Such as changes in sexual desire, sexual dysfunction, erectile dysfunction, difficulties reaching orgasm, vaginal dryness in women, other genital changes that lead to pain during sexual activity, difficulty feeling arousal and pleasure during sex	Patient reported concerns/outcomes (PRO) / Health related Quality of Life - general, non- medical	patient reported outcomes - PRO
Infertility	Inability to get pregnant or to produce healthy sperms	Patient reported concerns/outcomes (PRO) / Health related Quality of Life - general, non- medical	patient reported outcomes - PRO
Hair loss	Alopecia or baldness, loss of hair from part of the head or body	Patient reported concerns/outcomes (PRO) / Health related Quality of Life - general, non- medical	patient reported outcomes - PRO
Sleep changes	Finding it difficult to get to sleep or to stay asleep	Patient reported concerns/outcomes (PRO) / Health related Quality of Life - general, non- medical	patient reported outcomes - PRO
Anxiety	Feelings of constant worry, or deep concern or uneasy about uncertainties	Patient reported concerns/outcomes (PRO) / Health related Quality of Life - general, non- medical	patient reported outcomes - PRO
Depression	Feelings of severe sadness and unhappiness, often with decreased energy, constant feelings of guilt, doubt or self-blame, worthlessness and hopelessness	Patient reported concerns/outcomes (PRO) / Health related Quality of Life - general, non- medical	patient reported outcomes - PRO
Psychosocial function	Problems with mental processes of perception, memory, judgment, reasoning or thinking with an effect on relationships with partner, family and friends	Patient reported concerns/outcomes (PRO) / Health related Quality of	patient reported outcomes - PRO



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	including ability to join in with social activities	Life - general, non- medical	
Physical	The effect of CML or its treatment	Patient reported	patient reported
function	on day to day physical activities;	concerns/outcomes	outcomes - PRO
Tarrectori	for example, walking, climbing	(PRO) / Health	outcomes Tho
	stairs, driving	related Quality of	
	stans, arriving	Life - other	
		concerns	
Role function	The effect of CML or its treatment	Patient reported	patient reported
Role falletion	on your role; for example, ability	concerns/outcomes	outcomes - PRO
	to look after children or to work	(PRO) / Health	outcomes The
	or earn money	related Quality of	
	or carrimoney	Life - other	
		concerns	
Financial	Financial losses because of co-	Patient reported	patient reported
concerns	payment for medical treatment,	concerns/outcomes	outcomes - PRO
	and if a patient was working	(PRO) / Health	
	before disease diagnosis or	related Quality of	
	progression, loss of salary during	Life - other	
	sick leave, which may include	concerns	
	leave taken by a carer		
Cost of CML	Money which must be spend on	Use of Health care	Use of Health care
treatment	CML treatment	resources	resources
Emergency	Emergency or unplanned hospital	Use of Health care	Use of Health care
Unit	treatment is necessary	resources	resources
admissions			
Intensive care	Treatment on an intensive care	Use of Health care	Use of Health care
admissions	ward due to serious or life	resources	resources
	threatening disease progression		
	or side-effects		
Outpatient	Treatment or diagnostic visits in	Use of Health care	Use of Health care
visits	hospital without spending a night	resources	resources
	there		
Need of	Requirement for assistance given	Use of Health care	Use of Health care
caregiver	by caregiver (who could be a	resources	resources
assistance	family member, friend or a		
	professional care giver) in or		
	outside the hospital		



Camandata	CNAL mate leather manufacture in ma	NA - disal	t ft
Complete	CML gets better, resulting in no	Medical concerns -	type of event
Response - CR	residual lymphoma in bone	type of event	
(complete	marrow and normal peripher		
remission)	blood cells		
Response -	No residual BCR ABL is	Medical concerns -	type of event
major	detectable, deep response	type of event	
molecular		,,	
remission			
(MMR)			
Response -	CML stays the same after	Medical concerns -	type of event
Stable disease	treatment. It is not getting better	type of event	
(SD)	or worse	1,	
Response -	CML getting worse after	Medical concerns -	type of event
Progessive	treatment	type of event	
disease (PD)			
Relapse -	Symptomatic return of CML after	Medical concerns -	type of event
Clinical relapse	a patient initially responds well to	type of event	
	treatment		
Relapse -	Symptomatic return of CML after	Medical concerns -	type of event
biochemical	a patient initially responds well to	type of event	
relapse	treatment		
Relapse -	Symptomatic return of CML after	Medical concerns -	type of event
molecular	a patient initially responds well to	type of event	
relapse	treatment		
Cause of death	Death for any reason, whether	Medical concerns -	type of event
	related to CML or not. This	type of event	
	records the specific reason for		
	death, not the time until death		
Overall survival	Length of time that a patient	Medical concerns -	time to event
(OS)	remains alive from either the date	Time to event	
	of diagnosis or the start of		
	treatment for the CML		
Progression	Time until someone's CML either	Medical concerns -	time to event
free survival	gets worse or they die from any	Time to event	
(PFS)	cause		
Event free	Time until someone's CML either	Medical concerns -	time to event
survival (EFS)	gets worse, they die from any	Time to event	
	cause or they stop their		
	treatment because of side-effects		
Duration of	Time from a positive response to	Medical concerns -	time to event
response (DOR)	a treatment to when the CML	Time to event	
	starts to recur / to get worse		
Time to	Time until someone's CML recurs	Medical concerns -	time to event
progression	/ gets worse (excluding death)	Time to event	
(TTP)			



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Time to	Time from starting a treatment	Medical concerns -	time to event
response (TTR)	until a positive response to	Time to event	
	treatment		
Time to	Time until first treatment is	Medical concerns -	time to event
treatment	necessary	Time to event	
(TTT)			
Time to next	Time after first treatment and the	Medical concerns -	time to event
treatment	next treatment is necessary	Time to event	
(TTNT)			
Treatment free	Time from the end of the	Medical concerns -	time to event
intervall (TFI)	treatment until the next therapy	Time to event	
	is needed		
Time to blast	Time until CML transforms in a	Medical concerns -	time to event
crisis	blast crisis	Time to event	
Infections	How often and how bad a patient	Medical concerns -	clinical parameter
ccions	gets sick or picks up a bacterial,	clinical parameter	chinear parameter
	viral or fungal infection, that	ciiiicai parairictei	
	needs antibacterial or antifungal		
	treatment. Number of bacterial,		
	viral or fungal infections, that		
	needs antibacterial or antifungal		
	treatment		
transfusion	No need for regular transfusions	Medical concerns -	clinical parameter
independence	of red blood cells or	clinical parameter	Cillical parameter
independence	thrombocytes	cillical parameter	
Reduction of	Treatment response, that reduces	Medical concerns -	clinical parameter
systemic	symptoms	clinical parameter	Cililical parameter
-	Symptoms	ciiiiicai parailietei	
symptoms Minimal	The level of CML that can be	Medical results -	clinical parameter
residual		minimal residual	clinical parameter
	detected as measured by using a		
disease (MRD)	DNA sequencing technique	disease	
molecular / on			
cell-basis	The level of CNAL that are ha	Madical was the	aliniaal manaratan
Minimal	The level of CML that can be	Medical results -	clinical parameter
residual	detected as measured by using a	minimal residual	
disease (MRD)	special technique	disease	
flow cytometry		24 11 1	
Minimal	The level of CML that can be	Medical results -	clinical parameter
residual	detected as measured by using a	minimal residual	
disease (MRD)	imaging method	disease	
imaging /			
radiology			



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AEs (adverse	A negative event or side-effect	Safety concerns -	safety concerns
events) and	that happens during or after	adverse events /	
SAEs (serious	treatment, a clinical decision	harmful events	
adverse event)	classified according to the latest		
	"Common Terminology Criteria		
	for Adverse Events", a list of		
	adverse events. For each adverse		
	event there is a grading for		
	severity		
Medication	Patients take their medication as	Safety concerns -	safety concerns
adherence	prescribed by the doctor	adverse events /	
		harmful events	
Discontinuation	Patient decides to stop	Safety concerns -	safety concerns
of treatment	treatment themselves or under	adverse events /	
	the direction of his/her doctor for	harmful events	
	any reason other than finishing a		
	course of treatment		
Hematological	Side-effects that cause changes in	Safety concerns -	safety concerns
toxicity	the blood or number of blood	adverse events /	
	cells (e.g. low red blood count,	harmful events	
	low white blood count, low		
	platelets, among others)		
Non-	Side-effects that cause changes	Safety concerns -	safety concerns
Hematological	anywhere other than in the	adverse events /	
toxicity	blood, e.g. nausea, neuropathy,	harmful events	
	mucositis, renal or liver failure,		
	infections		
Second primary	A new cancer occurring in	Safety concerns -	safety concerns
malignancies	someone who has had a cancer in	adverse events /	
(SPM)	the past. It is different to	harmful events	
,	recurrence, which is where the		
	original cancer has returned		



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